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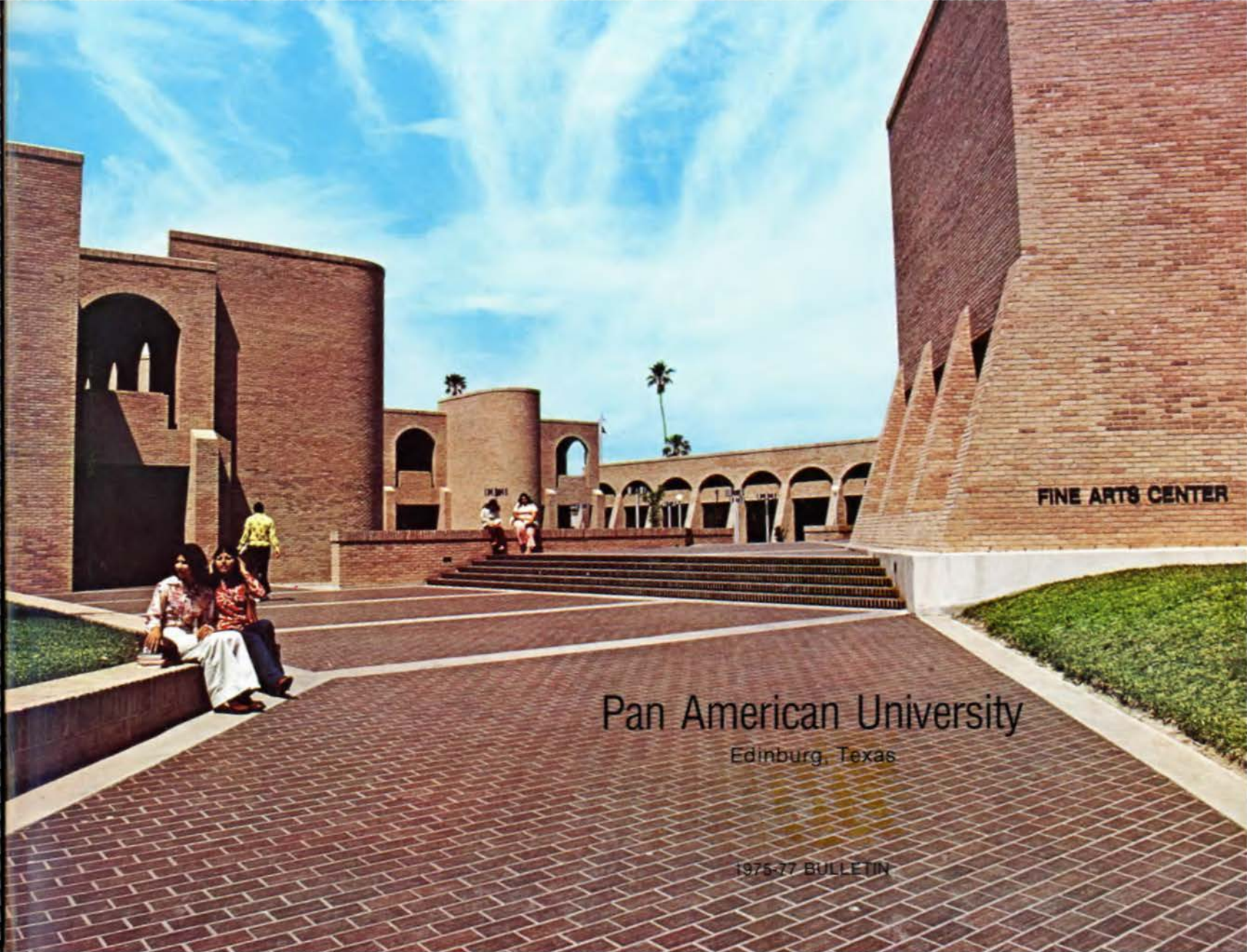
Pan American University

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FINE ARTS CENTER

Pan American University

Edinburg, Texas

1976-77 BULLETIN



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of

PAN AMERICAN UNIVERSITY

Edinburg, Texas

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PAN AM SITUATED IN SEMI-TROPICS

Pan American University, situated in the scenic Rio Grande Valley, can boast of being located in one of the most picturesque areas in the state.

Edinburg, aside from being the home of Pan Am, is the county seat of Hidalgo county and is set in the heart of the citrus industry. Located in the mid-upper region of the Valley, Edinburg also is known as the gateway to the Valley.

Pan American University's proximity to Mexico and Gulf Coast beach areas provides an added attraction. Known for its semi-tropical climate and friendly citizenry, the Rio Grande Valley encourages outdoor sports and activities the year around, with temperatures during the winter months hovering around the 70 degree mark.

In contrast to sandy beaches and salt water, the Valley also can claim three fresh-water recreational spots — the Bentsen Rio Grande Valley State Park and Anzalduas Park, both located in the upper region just southwest of the city of Mission, and Falcon Dam and Reservoir located upriver some 69 miles west of McAllen on the Rio Grande River.

Traveling southeastward from Anzalduas along the winding Rio Grande River, one approaches the Santa Ana Wildlife Refuge where large, mossy trees provide a haven for the endangered species of wildlife, as well as the more commonly known varieties. Vegetation and natural lakes provide food and shelter for a number of Mexican species of birds, the most popular of which is believed to be the chachalaca, a large brownish bird usually seen on the ground and which makes a noise similar to the sound of its name. The 1,980-acre sanctuary is maintained by the Fish and Wildlife Service.

Approximately 46 miles southeast of Santa Ana is the historical city of Brownsville, where the last battle of the Civil War was fought and the first shot fired in the Mexican War. Fort Taylor, named in honor of Gen. Zachary Taylor, now is known as Fort Brown. Brownsville also is the home of Gladys Porter Zoo, hous-

ing one of the largest single collections of rare and endangered species in the world. The animals are cagefree, being separated from visitors by moats in an atmosphere similar to their natural habitat.

The Brownsville Center of Pan American University is also located here, operating on the campus of Texas Southmost College but as a separate institution.

Separated from Brownsville and the United States by the Rio Grande River and the impressive Brownsville-Matamoros Bridge, the city of Matamoros is a widely-known tourist attraction with its busy marketplace, historic cathedrals and Sunday afternoon bullfights.

Traveling northeast from the southernmost tip-of-Texas, one approaches the Port of Brownsville, a 17-mile deep-water port carved out of the prairie. Ranking sixth in size in Texas, the port has been instrumental in bringing heavy industry to the Rio Grande Valley, with over \$100 million of industrial development attracted to the port area.



Lion cubs bask in sunshine (above) at Gladys Porter Zoo in Brownsville. Jetties at Padre Island National Seashore attract fishermen (upper right) the year around.



The Gulf Coast resort of Padre Island National Seashore is slightly more than an hour's drive from Edinburg and one-half hour from Brownsville. In addition to swimming, boating and surfing, Padre Island yields a wide variety of fish, shrimp and other marine life. Pan American University's marine biology laboratory is located on Padre Island just across the newly constructed causeway connecting "The Island" to Port Isabel. Beaches are clean and provide excellent camp grounds for weekend outings.

Port Isabel's shrimp and fishing industry adds considerable revenue to the Valley's economy, running a close third to tourism and the production of citrus, sugar cane and cotton.

Situated in the mid-valley area is the city of Harlingen, location of Six Shooter Junction, a lively frontier village commonly referred to as "the Disneyland of the Valley". A top attraction is the Frontier Jamboree, a country music theatre at its best, featuring live entertainment. The Confederate Air Force also is located in Harlingen, with World War II aircraft on display, along with other wartime collections.

McAllen, a mid-sized town of approximately 45,000, is the convention capital of the Valley. The convention center is a three-part complex featuring an auditorium with a seating capacity of 1,800, a convention hall with 12,000 square feet of floor space and the "Casa de Palmas" center with another 12,000 square feet of space. The convention center features many kinds of entertainment from ballet to musicals, in addition to hosting many national conventions averaging over 100 annually.

Less than ten miles south of McAllen is the Mexican city of Reynosa, with a population of about 200,000. Reynosa offers a wealth of entertainment, dining and shopping to visitors and tourists. No papers are required of a United States citizen visiting Reynosa and crossing the border is just a matter of routine.

From Falcon Dam to Padre Island and all in between, the Rio Grande Valley, ranking fifth in Texas metropolitan areas, is the place to live.



Cowboys and saloon girls add to the authenticity of the Old West at Six Shooter Junction in Harlingen.

SKYLINE IS CHANGING YEARLY

Pan American University's skyline is changing yearly with many additions to the physical plant coming during the past decade.

The rapidly-growing institution has a campus valued in excess of \$30 million. Facilities are scattered over an area 200 acres in size.

Phase One, an expansion and development program completed in the early and mid-1970's, saw the initial spurt of new building activity at the Rio Grande Valley university. Phase Two has continued the scale of progress in adding still further physical plant facilities.

The original eight and one-half acres in the vicinity of the old gymnasium was purchased when the university was known as the Edinburg Regional College. The expanded area has become known as the West Campus and is presently in the midst of intensive development. Twenty recently completed buildings form the nucleus for the beautiful campus envisioned on the master plan for the university.

The ADMINISTRATION BUILDING contains the administrative offices of the President and the assistant to the president, vice president for academic affairs, vice president for business affairs, dean of instructional services, office of admissions and the office of the registrar.

The OFFICE BUILDING COMPLEX, located directly east of the residence halls, consists of nine separate buildings. In building "A" is the department of political science, the honors program and office space for teaching assistants. Building "B" is occupied by the department of social science; the school of humanities is in "C"; foreign language in "D"; Proyecto Esperanza in "E"; and the High School Equivalency Program and the College Assistance Migrant Program in "F".

The graduate school occupies building "G"; the Air Force ROTC is in "H" and building "J" houses the office of information

and university tour guide service, the dean of the school of social science and the department of behavioral science.

The CHAPEL OF THE LORD'S PRAYER, erected in 1967, was made possible through the generosity of Mrs. Joe Crump and her late husband of Mission. The structure, located directly north of the library is beautifully furnished with an organ and seats 48 people.

The UNIVERSITY CENTER is the focal point of student life on campus and serves a variety of student and faculty organizations which use it as a meeting place. The center is comprised of a three-story activity building and an adjacent complex which houses the bookstore, snack bar, cafeteria, faculty lounge and a ballroom of which three entire walls are glass.

Located on the first floor of the center is the office of the vice president for student affairs, dean of men, dean of women, housing office, director of career counseling, placement and testing; career library; financial aid director and the guidance and counseling office.

The second floor is a spacious recreational area equipped with game tables, billiard tables, table tennis and lounging areas as well as the office for the director of the center.

Three large conference rooms, a student lounge, a music room, a TV room, offices for student organizations, the University Center Program Council and student government offices are located on the third floor.

Pan Am utilizes the university center as a laboratory for a continuous learning experience by encouraging self-directed activities which give students maximum opportunity for self-realization and for growth in individual social competency and group processes. Generally, the goal of the center is to contribute to the development of the whole individual to complement intellectual growth.

The CENTRAL COOLING PLANT chills and circulates water throughout the campus for air-conditioning purposes. The water is circulated via pipelines located in the upper portion of the covered walkway which extends for nearly a mile around campus and at the same time serves as protection during inclement weather.



The elaborate interior of Pan Am's University Center features a solarium extending from the ground-level dancing fountains to the third story transparent skylight.



Palm tree-lined entrance to Pan American University accentuates semi-tropical setting of the Rio Grande Valley school.

The EDUCATION BUILDING was the last structure to be completed in Phase One of Pan Am's multi-million-dollar construction program. The \$1.25 million building contains the school of education, the Inter-American Affairs and International Education division, classrooms and faculty offices.

The ENGINEERING BUILDING, one of the original structures on the west campus, contains laboratories for physics, geology, engineering drawing and physical science. Classrooms, research areas, reading and conference rooms and faculty office space are also provided.

The OLD FIELD HOUSE contains a single basketball court, dressing rooms for both men and women, faculty office space and is currently being used mainly for gymnastics and weight-lifting.

The FINE ARTS CENTER provides space for all the arts which include the music department, the art department and the department of speech and drama. In addition to the student learning and practice areas, there is an auditorium with a seating capacity of 1,000 which is used extensively for both university and public functions.

A 5,000-seat HEALTH AND PHYSICAL EDUCATION COMPLEX is the home of the Pan Am Bronco basketball team. Other major sports include baseball, track and field, tennis, golf and soccer. An enclosed natatorium, also a part of the complex, meets the requirements for intercollegiate swimming competition. Classrooms, faculty offices and facilities for physical education courses also are provided.

The LIBERAL ARTS BUILDING contains modern furnishings in its 17 classrooms. Also provided in the building is office space for faculty members and a secretarial pool. Constructed in 1963, the structure is one of the original three on the west campus.

The UNIVERSITY LIBRARY was recently remodeled and enlarged to accommodate more students. Total seating capacity is 520 students. The facility houses more than 130,000 books, plus numerous verticle file items, phono-discs, microfilm units and foreign and domestic newspapers and magazines. In addition, the library is a depository for United States Government publications and at present houses a collection of 64,000 government documents.

The PLANETARIUM AND OBSERVATORY COMPLEX includes an observatory with a 17-inch telescope; a planetarium used for Pan Am's educational purposes, for public school programs and programs for the general public; a solar telescope; a multi-telescope observing lab; a photographic darkroom and work areas.

Astronomical instruments including a 16-inch telescope, a photo-electric photometer, and camera equipment, made possible by the National Aeronautics and Space Administration, is housed in an astro-science laboratory 15 miles west of the campus at the former Moore Air Base. The complex also includes office space, a darkroom and a rocket range.

ORVILLE I. COX tennis stadium offers some of the finest playing surfaces to be found in the southwest. The stadium, built through contributions from a number of interested friends of the university, has acquired a reputation as the location of the Annual Pan American Invitational Tennis Tournament held each spring.

RESIDENCE HALLS housing 400 students are modern in every respect. The halls provide lounge space, laundry rooms, study areas, entertainment facilities and director's quarters as well as first-class living quarters for the students. Meals are served in the cafeteria at the university center which is conveniently located nearby. Information concerning reservations, cost and regulations may be obtained from the office for student affairs.

A lighted BASEBALL STADIUM situated on the northeast corner of the campus is home base for the Pan Am Broncs. The new 5,000-seat Jody Ramsey Stadium conforms to the architectural scheme of the rest of the campus. Snack bar, restrooms and other related facilities are enclosed beneath the stands.

The SCIENCE BUILDING, a two-level structure completed in 1969, contains classrooms, faculty offices, laboratories for biology and chemistry and a wildlife museum. Also included are three auditoriums, one of which seats 233 persons and the other two, 150 each.

SOUTHWICK HALL AND EMILIA HALL both consist of classrooms and faculty offices. The Pan American newspaper and the El Bronco yearbook share office space in Emilia Hall. Also in Emilia Hall, located next to the residence halls, is the university health coordinator.

The recently completed NURSING EDUCATION BUILDING provides facilities for the nursing program and the division of health related professions. The structure contains a 250-seat auditorium, simulated patient hospital units, a large laboratory section, an audio-visual media room, classrooms, a student lounge, a conference room and faculty offices.



Residence halls at Pan Am provide students with a modern and comfortable home while continuing their education.

A new BUSINESS ADMINISTRATION building was completed in early 1975. The facility houses the faculty and administration of the school of business and the university's computer center. Special features include U-shaped seating arrangements in the classrooms for improved student-teacher interaction, a 150-seat auditorium and several special classrooms. An organizational behavior laboratory provides facilities for small group-behavior studies; a student reading-study area on the second floor contains current periodicals and frequently-used reference materials; and a student lounge area with facilities for student professional organizations are available. The Bureau of Business and Economic Research, also located in the building, will make extensive use of the computer center as will the students who will have access to several remote computer terminals.

EAST CAMPUS

The OLD ADMINISTRATION BUILDING contains the administrative offices of the comptroller, personnel office, purchasing, auxiliary enterprise system, grants and contracts, administration and the office for fiscal and management services.

The ART BUILDING located north of the old administration building contains classrooms and laboratories. A small area of the building is used for printmaking classes. Other art classes have been moved to the fine arts center on the west campus.

The DRAMA BUILDING contains one large classroom and a student darkroom.

PADRE ISLAND

The MARINE BIOLOGY LABORATORY on South Padre Island, was occupied in the summer of 1974. Located on the southern tip of scenic Padre Island, the 7,700 square foot structure consists of offices for a director and a secretary, research labs, a classroom and a large area for displaying local marine life for public viewing.

OFF CAMPUS

President's Home

The university PRESIDENT'S HOME, a modified Spanish designed two-story structure has become a showplace in Edinburg. The home is designed with private living quarters upstairs and the downstairs area is used extensively for parties and receptions given by the president and for other university functions. A walled-in patio with a fountain can be seen from the huge formal dining area and the kitchen and bar area. The \$100,000 residence is located on a five-acre tract one mile south of the campus on Sugar Road.



Perfectly-preserved specimens of marine life are displayed at Pan Am's Marine Biology Laboratory on Padre Island.

HISTORY

Pan American University, with one of the most beautiful campuses in the state, ranks 15th in size on the basis of enrollment out of approximately 30 state-supported four-year colleges and universities.

Located in Edinburg, with a population of over 17,000 and situated in a county of more than 193,000, Pan Am is centrally located in the Rio Grande Valley for the convenience of Valley-wide commuter students. The Valley is well represented at Pan Am on an enrollment basis, having students from all the largest Valley towns. Non-resident students represent an approximate five per cent in enrollment.

With occupancy of the \$1.25 million Education Building, the university completed Phase One of the building and expansion program, which also witnessed the erection of a new Science Building, University Center, Library, Fine Arts Center, Health and Physical Education Complex, Cooling Plant, two new Residence Halls and remodeling of the Baseball Stadium.

Pan American University, then Pan American College, joined the state system of 22 colleges and universities in 1965, and Dr. Ralph Schilling and members of the board of regents, set their sights on a new and modern campus.

Now well into Phase Two of the expansion program with the in-progress construction of a new Liberal Arts Building, Fine Arts Annex, Nursing Education Building and Business Administration Building, Pan Am now has a total value of \$30 million in land, buildings and facilities. A \$5.5 million Learning Resource Center has also been approved. Phase Two target date for completion is estimated for 1976.

Enrollment for the 1974 fall semester neared the 7,200 mark, representing a small increase over last year. The year 1973 registered a two per cent hike in enrollment over 1972. Pan Am also has expanded all existing programs, in addition to adding new curriculum.

Three additional bachelor degree programs have been submitted to the Coordinating Board, Texas College and University System, following approval by Pan Am's board of regents. These programs include a bachelor of science degree in secondary education, bachelor of science degree in human services and a bachelor of fine arts degree in art.

The new graduate school, which enters its fourth year, also registered an enrollment increase, about 20 per cent as 794 students enrolled for classes in this area.

Pan Am is moving ahead to stay in step with the growing educational needs of South Texas and Mexico. Enrollment figures, released by the Coordinating Board, Texas College and University System in 1972, revealed that Pan American University is the fastest growing institution of higher learning in Texas.

This institution first began operation in September, 1927, as Edinburg Junior College and served as a two-year junior or community college. During this quarter-century period, as the population grew, there was a steadily increasing demand that the Edinburg Regional College be expanded to a four-year college to better serve the needs of the citizenry. In response to this demand, a law was passed by the legislature and signed by the governor on May 13, 1951, enabling the people of Hidalgo County to vote on the expansion of the college which would serve the needs of this section. The election held December 29, 1951, resulted in the establishment of the Pan American Regional College District which included all of Hidalgo County.

The four-year school joined the state system in 1965 and on February 18, 1971, Gov. Preston Smith signed a legislative bill officially changing the name of the Rio Grande Valley state college to Pan American University.

EQUAL OPPORTUNITY EMPLOYER

It is the policy of Pan American University to recruit, hire and promote all job classifications without regard to race, color, religion, sex, or national origin, except where sex is a bonafide occupational qualification.



PHILOSOPHY

Pan American University is a democratic institution which is dedicated to the preservation and extension of responsible human freedom and to the enlightenment of the Rio Grande Valley community.

As such an institution, it is dedicated to the following:

The belief that it is the obligation of Pan American University to help perpetuate the best of American cultural heritage and to blend with it the outstanding features of Latin-American culture, and to propagate the best that is known and thought in the world.

The belief that every student should be considered an individual with individual needs and, as such, be counseled into pursuing the areas of learning for which he is capable and suited, and in which he is interested, and into pursuing the broader areas available to him in a first-class senior college, basically a liberal arts college.

The belief that every student should be stimulated to know and cherish his American heritage, to develop adequate skills in oral and written communication, to understand his place in the physical universe and to appreciate, enjoy, and participate in the fine arts.

The belief that the University should provide the highest possible professionally trained faculty and administrative staff for its students.

The belief that the faculty and administrative staff should provide a functional, adequate, and aesthetically planned physical plant and campus for the use and enjoyment of university personnel, students and citizens in the area.

Pine, palm and citrus trees are in silhouette against the blue Valley sky near Sharyland in the Rio Grande Valley.



ATHLETICS CONTINUE TO BOOM

Six national championships — one in basketball in 1963 and five titles in collegiate tennis — have paved the way for today's flourishing athletic program at Pan American University.

In the 48-year history of Edinburg Junior College, Pan American College and the present Pan American University, intercollegiate athletics have been an integral part of higher education at the Rio Grande Valley University.

The founders of Pan American shared with the ancient Greeks the belief that true education consists of a sound mind in a sound body. Physical education, intramural sports and intercollegiate athletics have always been popular at Pan American. The intercollegiate athletic program has played a major role in the shaping of Pan American University's identity and future.

For the twenty-five years before Pan American became a four-year institution, Bronc teams competed in junior college sports. Lou Hassell, a football player, went on to win All-Southwest Conference honors at Rice University and later was named to the Board of Regents of Pan American and Rice Universities.

In 1963, Hassell originated the Lou Hassell Trophy, which is given annually to the outstanding senior scholar-athlete at Pan American University.

Rising costs forced Pan American to join many other U.S. colleges in dropping intercollegiate football in the early 1950's. However, Pan American concentrated on achieving excellence in other sports.

The Jody Ramsey Stadium at Pan Am is the scene of much athletic competition. The PAU Field House and the Jody Ramsey Baseball Stadium each seat 5,000 spectators.

For five consecutive years, starting in 1961, Pan American completely dominated the national championships that the National Association of Intercollegiate Athletics (NAIA) sponsor in tennis.

All-American Lucious Jackson carried Pan American to the NAIA national basketball championship in March of 1963. The following year, the Broncs returned to the NAIA finals, and Coach Sam Williams was voted the NAIA's national Coach of the Year. Jackson concluded his amateur status by leading the U.S. Olympic basketball team to victory in Tokyo and became the only Pan American player in 21 years to have his number permanently retired. "Big Luke" went on to become a pro star for the Philadelphia 76ers and helped Philly win the NBA pro title in 1965.

Five other Broncs have followed Jackson into pro basketball, including Otto Moore (also an NBA first-round draft choice), and Bruce King, an NBA draft choice who signed to play with the Indiana Pacers of the ABA in 1974. King ranked Second in the national scoring race averaging a record 31 points per game for the Broncs. In addition to King's outstanding year, Carlos McCullough of Pan American ranked second in the nation in rebounding.

Pan American continues to thrive in other sports, particularly in baseball. For five consecutive years the Broncs have reached the NCAA playoff. From these talent-laden squads, 12 men have signed pro baseball contracts, including James Tyrone now with the Chicago Cubs, and his brother Wayne, the 1974 Texas League Home Run Champion.

In 1971, the Bronc baseball team upset the Texas Longhorns and finished fourth at the eight-team College World Series in Omaha, Nebraska. The Sporting News picked Coach Al Ogletree of Pan American as the nation's college Baseball Coach of the Year in 1971.

Since 1965 the Broncs have competed in the National Collegiate Athletic Association (NCAA). As a major independent in Division I, they challenge the nation's largest colleges and universities. Pan American competes in basketball, baseball, golf, soccer, tennis, track and cross-country.



Another victory for the Pan Am Broncs, with a 119 to 85 win over Texas A & I University of Kingsville.

Women's athletics also are popular at PAU. Dr. Amilda Thomas, coordinator of women's athletics, oversees intercollegiate participation in nine sports ranging from badminton to volleyball.

Another milestone for PAU athletics was passed in 1973, when A. E. (Abe) Lemons became athletic director and basketball coach. Long successful at Oklahoma City University, Lemons promptly began to upgrade the PAU schedule.

Despite adding Southwest Conference and Missouri Valley Conference teams and a major service academy, the Air Force, to the schedule, Lemons achieved a winning record in his first season. He moved up to the top twelve on the all-time winning list of major-university coaches. He added more Southwest Conference rivals on the 1974-75 schedule along with first-time opponents Georgia Tech, Hawaii, Denver and Tulsa.



Tennis buffs enjoy the recently-resurfaced courts at the Orville I. Cox Tennis Stadium (above) at Pan Am. The stadium has covered stands for 1,000 spectators. Students enjoy a 'break' from their classroom (right) by relaxing on the sunny patio in the Health and Physical Education Complex.



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UNIVERSITY CALENDAR

1975-1976

Dates and deadlines for applications for student loans, scholarships, or other financial aid are set up in the Financial Aid office and are listed in the Student Affairs section of this bulletin.

For ACT, GRE, ATGSB, and other test information contact the Testing office.

The Brownsville Center calendar does not coincide with this calendar in all respects. Refer to the Brownsville supplement for further information.

FIRST SEMESTER

August 4, Monday

Application for Admission and supporting documents (immunization certificate, transcript of credits, and ACT test results for freshmen or GRE test scores for graduate students, also ATGSB scores for graduate business students) must be received by the Admissions office by this date to insure processing for admission to the fall semester. Prospective students should file documents as early as possible before this deadline.

August 19, Tuesday

Freshman Orientation (Last names beginning A-G)

August 20, Wednesday

Freshman Orientation (Last names beginning H-P)

August 21, Thursday

Freshman Orientation (Last names beginning Q-Z)

August 24, Sunday

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

August 25, Monday

Freshman Orientation (Beginning freshmen who reside 100 or more miles from Edinburg)

August 26, Tuesday

1. Freshman Orientation continued.
2. Faculty meetings.

August 27, Wednesday, and August 28, Thursday

1. Registration by appointment will begin at 8:00 a.m.
2. Registration by appointment for evening classes will begin at 7:00 p.m.

August 29, Friday

Registration by appointment continues through Friday afternoon.

September 2, Tuesday

1. Classes begin.
2. First day for making schedule changes.

September 3, Wednesday

Last day for making schedule changes.

September 15, Monday

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

October 1, Wednesday

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

October 13, Monday

Deadline for filing an Application for Degree form with the Registrar's office for students expecting to graduate in May, 1976, and for graduate students expecting to receive a masters degree in December, 1975.

October 20, Monday

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

November 3, Monday

Deadline for filing completed signed thesis with Graduate office for students expecting to receive a masters degree in December, 1975.

November 14, Friday

Deadline for filing an Application for Degree with the Registrar's office for graduate students expecting to receive a masters degree in May, 1976.

November 27-29, inclusive

Thanksgiving.

December 10-16, inclusive

First semester final examinations begin with evening examinations on December 10.

December 18, Thursday

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

SECOND SEMESTER

December 8, Monday

Application for Admission and supporting documents (immunization certificate, transcript of credits, and ACT test results for freshmen or GRE test scores for graduate students, also ATGSB scores for graduate business students) must be received by the Admissions office by this date to insure processing for admission to the spring semester. Prospective students should file documents as early as possible before this deadline.

January 14, Wednesday

1. Freshman Orientation.
2. Dormitories open for occupancy at 8:00 a.m.

January 15, Thursday, and January 16, Friday

1. Registration by appointment will begin at 8:00 a.m.
2. Registration by appointment for evening classes will begin at 7:00 p.m.

January 19, Monday

1. Classes begin.
2. First day for making schedule changes.

January 20, Tuesday

Last day for making schedule changes.

January 31, Saturday

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

February 12, Thursday

Deadline for filing an Application for Degree form with the Registrar's office for students expecting to graduate in August, 1976.

February 17, Tuesday

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

March 8, Monday

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

March 22-27, inclusive

Spring recess.

April 9, Friday

Deadline for filing an Application for Degree form with the Registrar's office for graduate students expecting to receive a masters degree in August, 1976.

April 14, Wednesday

Deadline for filing completed signed thesis with the Graduate office for students expecting to receive a masters degree in May, 1976.

April 15-17, inclusive
Easter.

April 28, Wednesday
Deadline for filing an Application for Degree form with the Registrar's office for students expecting to graduate in December, 1976.

May 6-12, inclusive
1. Second semester final examinations.
2. Dormitories close at 6:00 p.m. on May 12.

May 14, Friday
Grade reports due in Registrar's office by 9:00 a.m.

May 16, Sunday
Commencement exercises.

July 12, Monday
Last day to register or make changes in class schedule.

July 13, Tuesday
Fourth class day. Last day for any tuition or fee refund.

August 12, Thursday
Second term final examinations.

August 15, Sunday
Commencement exercises.

August 16, Monday
Grade reports due in Registrar's office by 9:00 a.m.

SUMMER SESSION, 1976

April 23, Friday
Application for Admission and supporting documents (immunization certificate, transcript of credits, and ACT test results for freshmen or GRE test scores for graduate students, also ATGSB scores for graduate business students) must be received by the Admissions office by this date to insure processing for admission to the summer session. Prospective students should file documents as early as possible before this deadline.

May 31, Monday
Registration by appointment for first summer term.

June 2, Wednesday
Classes begin.

June 3, Thursday
Last day to register or make changes in class schedules.

June 5, Saturday
Fourth class day. Last day for any tuition or fee refund.

July 6, Tuesday
First term final examinations.

July 7, Wednesday
Registration by appointment for second summer term.

July 9, Friday
1. Classes begin.
2. Grade reports due in Registrar's office by 9:00 a.m.

1976-1977

Dates and deadlines for applications for student loans, scholarships, or other financial aid are set up in the Financial Aid office and are listed in the Student Affairs section of this bulletin.

For ACT, GRE, ATGSB, and other test information contact the Testing office.

The Brownsville Center calendar does not coincide with this calendar in all respects. Refer to the Brownsville supplement for further information.

FIRST SEMESTER

August 2, Monday
Application for Admission and supporting documents (immunization certificate, transcript of credits, and ACT test results for freshmen or GRE test scores for graduate students, also ATGSB scores for graduate business students) must be received by the Admissions office by this date to insure processing for admission to the fall semester. Prospective students should file documents as early as possible before this deadline.

August 17, Tuesday
Freshman Orientation (Last names beginning A-G)

August 18, Wednesday
Freshman Orientation (Last names beginning H-P)

August 19, Thursday

Freshman Orientation (Last names beginning Q-Z)

August 22, Sunday

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

August 23, Monday

Freshman Orientation (Beginning freshmen who reside 100 or more miles from Edinburg).

August 24, Tuesday

1. Freshman Orientation continued.
2. Faculty meetings.

August 25, Wednesday, and August 26, Thursday

1. Registration by appointment will begin at 8:00 a.m.
2. Registration by appointment for evening classes will begin at 7:00 p.m.

August 27, Friday

Registration by appointment continues through Friday afternoon.

August 30, Monday

1. Classes begin.
2. First day for making schedule changes.

August 31, Tuesday

Last day for making schedule changes.

September 11, Saturday

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

September 28, Tuesday

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

October 11, Monday

Deadline for filing an Application for Degree form with the Registrar's office for students expecting to graduate in May, 1977, and for graduate students expecting to receive a masters degree in December, 1976.

October 18, Monday

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

November 1, Monday

Deadline for filing completed signed thesis with Graduate office for students expecting to receive a masters degree in December, 1976.

November 12, Friday

Deadline for filing an Application for Degree with the Registrar's office for graduate students expecting to receive a masters degree in May, 1977.

November 25-27, inclusive

Thanksgiving.

December 13-18, inclusive

First semester final examinations begin with evening examinations on December 13.

December 20, Monday

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

SECOND SEMESTER

December 6, Monday

Application for Admission and supporting documents (immunization certificate, transcript of credits, and ACT test results for freshmen or GRE test scores for graduate students, also ATGSB scores for graduate business students) must be received by the Admissions office by this date to insure processing for admission to the spring semester. Prospective students should file documents as early as possible before this deadline.

January 12, Wednesday

1. Freshman Orientation.
2. Dormitories open for occupancy at 8:00 a.m.

January 13, Thursday, and January 14, Friday

1. Registration by appointment will begin at 8:00 a.m.
2. Registration by appointment for evening classes will begin at 7:00 p.m.

January 17, Monday

1. Classes begin.
2. First day for making schedule changes.

January 18, Tuesday

Last day for making schedule changes.

January 29, Saturday

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

February 10, Thursday

Deadline for filing an Application for Degree form with the Registrar's office for students expecting to graduate in August, 1977.

February 15, Tuesday

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

March 7, Monday

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

SUMMER SESSION, 1977

March 21-26, inclusive

Spring recess.

April 1, Friday

Deadline for filing an Application for Degree form with the Registrar's office for graduate students expecting to receive a masters degree in August, 1977.

April 7-9, inclusive

Easter.

April 13, Wednesday

Deadline for filing completed signed thesis with the Graduate office for students expecting to receive a masters degree in May, 1977.

April 27, Wednesday

Deadline for filing an Application for Degree form with the Registrar's office for students expecting to graduate in December, 1977.

May 5-11, inclusive

1. Second semester final examinations.
2. Dormitories close at 6:00 p.m. on May 11.

May 13, Friday

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

May 15, Sunday

Commencement exercises.



The newly-completed \$800,000 Nursing Education Building provides extensive facilities for the nursing program and the department of health related professions.

April 22, Friday

Application for Admission and supporting documents (immunization certificate, transcript of credits, and ACT test results for freshmen or GRE test scores for graduate students, also ATGSB scores for graduate business students) must be received by the Admissions office by this date to insure processing for admission to the summer session. Prospective students should file documents as early as possible before this deadline.

May 30, Monday

Registration by appointment for first summer term.

June 1, Wednesday

Classes begin.

June 2, Thursday

Last day to register or make changes in class schedules.

June 4, Saturday

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

July 4, Monday

Independence Day.

July 6, Wednesday

First term final examinations.

July 7, Thursday

Registration by appointment for second summer term.

July 8, Friday

Grade reports due in Registrar's office by 4:00 p.m.

July 11, Monday

Classes begin.

July 12, Tuesday

Last day to register or make changes in class schedule.

July 14, Thursday

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

August 11, Thursday

Second term final examinations.

August 14, Sunday

Commencement exercises.

August 15, Monday

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

OFFICERS AND COMMITTEES

1975-77

PAN AMERICAN UNIVERSITY

The Board of Regents

Morris Atlas	McAllen
Ruben Cardenas	McAllen
Barney M. Davis	Somerville
Leonel Garza	Brownsville
Dr. Joe W. May	Edinburg
William R. Parker, Jr.	Houston
Mrs. Allan Shivers	Austin
Raul Tijerina, Jr.	Brownsville
Moises V. Vela	Harlingen

Administrative Officers and Staff

Office of the President

Ralph Schilling	<i>President</i>
Martha Ruth Sheives	<i>Secretary to the President</i>

Assistant to the President

Homer J. Pena	<i>Assistant to the President</i>
Sharon Saunders	<i>Secretary to the Assistant</i>

Athletics

A. E. Lemons	<i>Director</i>
Amado Robledo	<i>Assistant Director</i>
James McKone	<i>Sports Information Director</i>

Public Information

Vernon L. Davis	<i>Director</i>
Gerald Whitaker	<i>Assistant Director</i>
Helen Coleman	<i>Production Supervisor</i>
Linda Mannering	<i>Receptionist-Official Tour Guide</i>

Office of the Vice President for Academic Affairs

J.C. Nichols	<i>Vice President</i>
Mary Cantu	<i>Secretary to the Vice President</i>

Bible Chairs

William Starbird	<i>Acting Director</i>
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Brownsville Center

Ralph A. Penington	<i>Director</i>
Marie Caruso	<i>Secretary to the Director</i>
Vivian K. Permenter	<i>Administrative Assistant</i>

Cooperative and Continuing Education

L. A. Youngman	<i>Director</i>
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Honors Program

Bob Dowell	<i>Director</i>
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Library

Leslie M. Gower	<i>Director</i>
Mary Jo Feldtman	<i>Secretary to the Director</i>
Ruth Graham	<i>Acquisitions Librarian</i>
Isidro Guzman	<i>Assistant Librarian</i>
Susan Hancock	<i>Education Librarian</i>
Lloyd McCameron	<i>Circulation Librarian</i>
Virginia Mounce	<i>Catalog Librarian</i>
Marilyn Nicely	<i>Serials Librarian</i>
Jean Shelander	<i>Assistant Librarian</i>
William Tinsman	<i>Documents Librarian</i>

Instructional Services

John Hook	<i>Dean</i>
Yvonne Willis	<i>Secretary to the Dean</i>
Les Saunders	<i>Systems & Procedures Analyst</i>

Office of Admissions

William L. Morris	<i>Director</i>
Linda Renner	<i>Secretary to the Director</i>
David Zuniga	<i>Admissions Supervisor</i>

Office of Registrar

Helen Snider	<i>Registrar</i>
Elia Domain	<i>Secretary to the Registrar</i>

School of Graduate Programs

Bill Reeves*Dean of the School*
Paula Duck*Secretary to the Dean*

School of Business Administration

R.N. McMichael*Dean of the School*
Marilyn de Julio*Secretary to the Dean*
Division of Instruction and Administration
Edward F. Baldwin*Director*
Division of Counseling and Placement
Roy Flores*Director*
Bureau of Business and Economic Research
Carl H. Rush, Jr.*Director*
Division of Programs
Edna Villar*Director*

School of Education

Fred J. Cunningham*Dean of the School*
Doris O. Carrera*Secretary to the Dean*
Department of Elementary Education
James Williamson*Department Head*
Department of Secondary Education
Barry B. Thompson*Department Head*
Department of Health and Physical Education
W. Darrel Black*Department Head*

Division of Health Related Professions

Julian Castillo*Director*
Olga Ambriz*Secretary to the Director*
Department of Nursing Education
Mary Frances Patterson*Acting Department Head*

School of Humanities

Raymond Miller*Dean of the School*
Zena Griffis*Secretary to the Dean*
Department of Art
Nancy Prince*Department Head*
Department of English and Mass Communications
Carl Grantz*Department Head*
Department of Foreign Language
Charles E. Beaudry*Department Head*

Department of Music

John Anderson*Department Head*
Department of Speech and Drama
Opal White*Acting Department Head*

School of Sciences and Mathematics

L. O. Sorensen*Dean of the School*
Evalyn Ward*Secretary to the Dean*
Department of Aerospace Studies
Col. Kenneth Richmond*Department Head*
Department of Biology
Sammie L. Sides*Department Head*
Department of Chemistry
Ernest Baca*Acting Department Head*
Department of Mathematics
S.S. Draeger*Department Head*
Department of Physical Science
Edwin LeMaster*Department Head*
Observatory/Planetarium
Paul Engle*Director*

School of Social Sciences

T. Lawrence White*Dean of School*
Annette Clancey*Secretary to the Dean*
Department of Behavioral Sciences
David Alvarez*Department Head*
Department of History
Porter A. Stratton*Department Head*
Department of Political Science
Jerry Polinard*Department Head*

Office of the Vice President for Business Affairs

Robert Crane*Vice-President*
Estela Cordero*Secretary to the Vice-President*

Physical Plant

Louis deVries*Director*

Fiscal and Management Services

Robert Crane*Director*

Computer Center
 Jorge Herrera*Assistant Director*

Auxiliary Enterprise System
 John Morris*Coordinator*

Bookstore
 B. J. Pigg*Manager*

Comptroller
 Rey Ortiz*Comptroller*
 Gertrude Wright*Bursar*

Cafeteria
 Charles Pond*Manager*

Grants and Contracts Administration
 David Davila*Administrator*

Personnel Office
 Tony Villalobos*Administrator*

Purchasing Agent
 Sam Odstrcil*Director*

Inter-American Affairs and International Education
 Arnulfo S. Martinez*Vice-President*
 Mary Helen Diaz*Secretary to the Vice-President*

Office of Vice-President for Student Affairs
 Miguel Angel Nevarez*Vice-President*
 Santos Martinez*Secretary to the Vice-President*

Dean of Men
 Ricardo R. Chapa*Dean*

Dean of Women/Foreign Student Advisor/Housing Director
 Bonnie Powers*Dean of Women*

Career Planning and Placement Office/Testing
 Romulo D. Martinez, Jr.*Director*

Financial Aid
 Frank G. Herrera*Director*
 Raul de la Garza*Assistant Director*

Student Activities and University Center
 Antonio F. Vela, Jr.*Director*

Guidance and Counseling
 Margarita Mancillas*Counselor*

Student Publications
 Harry C. Quin*Advisor*

Health Service Center
 Theodore Gandy, M.D.*Physician*
 Carol Chamblee*Nurse*

Women's Residence Hall
 Mildred A. Fagg*Head Resident*

Men's Residence Hall
 Darrell D. Troxel*Head Resident*

Veterans Affairs Office
 Bill Miller*Coordinator*

Proyecto Esperanza/Upward Bound
 Earl Frankenberger*Director*

College Assistance Migrant Program
 Lucas Hinojosa*Director*

High School Equivalency Program
 Clementine Cantu*Director*



The Health and Physical Education Complex is the home base for Pan Am's athletic programs and includes an enclosed natatorium for swimming competition.

ACADEMIC COMMITTEES

The Vice President for Academic Affairs and the Dean of Instructional Services are ex officio members of all academic committees. All schools are represented on each academic committee.

Curriculum Committee

8 Faculty Members
1 Graduate Student
1 Undergraduate Student
Director of Curriculum Development (ex officio)

Graduate Council

8 Graduate Faculty Members
1 Graduate Student
1 Undergraduate Student
Dean of Graduate School (ex officio)
Director of Curriculum Development (ex officio)

Honors Council

8 Faculty Members
2 Undergraduate Students
Director of Honors Program (ex officio)

Library Committee

8 Faculty Members
1 Graduate Student
1 Undergraduate Student
Director of Library (ex officio)

Research Council

8 Faculty Members
1 Graduate Student
1 Undergraduate Student
Dean of Graduate School (ex officio)

OTHER COMMITTEES

Admissions Committee

Director of Admissions
6 Faculty Members

Athletic Committee

7 Faculty and Administrative Members
Athletic Director (ex officio)

Disciplinary Committee

Dean of Men
4 Faculty Members
2 Students

Equal Employment Opportunity Committee

Faculty and staff members of various ethnic backgrounds, university positions, assignments and sexes.
Compliance Officer
Vice President for Academic Affairs (ex officio)
Vice President for Business Affairs (ex officio)
Vice President for Student Affairs (ex officio)

Financial Aid Committee

Registrar
Dean of Men
1 Administrator
2 Faculty Members
2 Students
Director of Financial Aid (ex officio)

Insurance Committee

1 Administrator
3 Faculty Members
1 Staff Member
Vice President for Business Affairs (ex officio)

Pan American University Teacher Education Advisory Board

- 3 Representatives from Pan American University
- 3 Representatives from public schools
- 2 Representatives from the teaching profession
- 1 Representative from the Education Service Center

Publication Committee

- 2 Administrators
- 4 Faculty Members
- 3 Students
- Vice President for Student Affairs (ex officio)
- Advisor for Student Publications (ex officio)

Speakers Coordinating Committee

- 2 Administrators
- 4 Faculty Members
- 4 Students
- Director of the University Center (ex officio)

Student Organizations Committee

- 1 Administrator
- 2 Faculty Members
- 2 Students
- Dean of Men (ex officio)

Teacher Education Committee

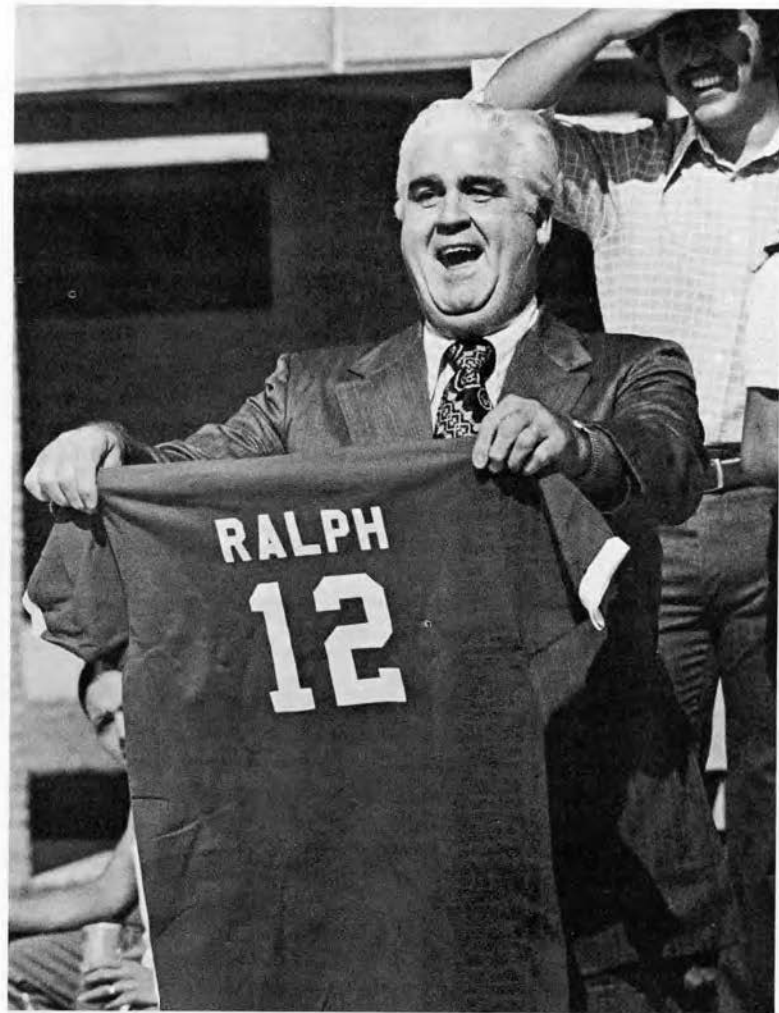
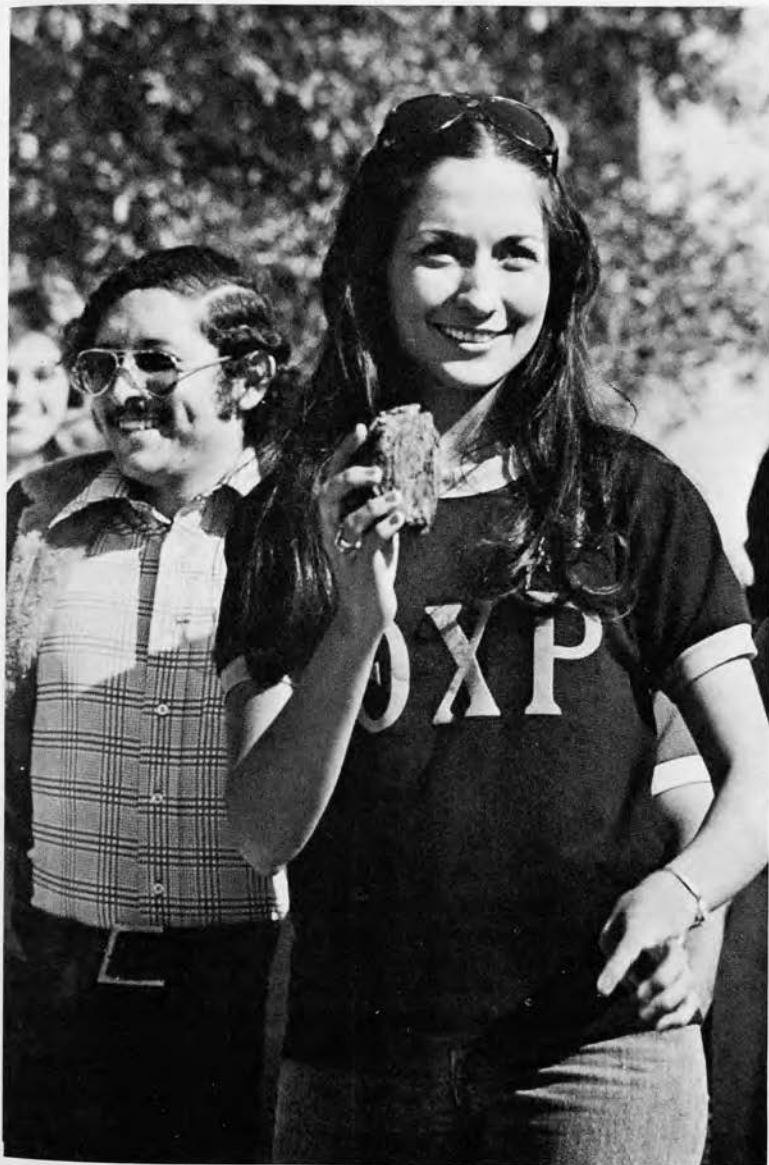
- Dean and Department Heads of School of Education
- Faculty Representatives from School of Education
- Faculty Representatives from each department having teacher education program
- President (ex officio)
- Vice President for Academic Affairs (ex officio)
- Dean of the Graduate School (ex officio)

Faculty Senate

One member from each of the five schools, Health Related Professions and the Library for each 15 eligible members of their faculties.



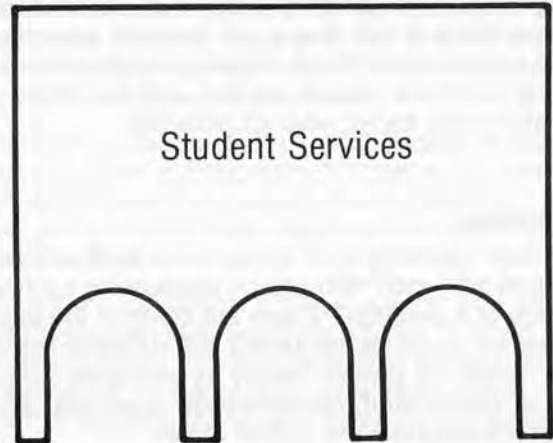
Students stroll through the spacious covered walkways of the Fine Arts Center between classes.



Sorority coed (left) warms up for game participation during Bronco Days at Pan Am. Pan Am's President, Dr. Ralph Schilling, is the recipient of a football jersey (above) with the same number worn when he played with the Washington Redskins.

The University Center (upper far right) is the hub of activity at Pan Am. The game room (far right and below) is a popular relaxation spot for students. The annual Bronco Days celebration produces such games as the tug-of-war contest (right) between fraternities.





Student Services

Career Planning and Placement

Graduate Placement:

The Office of Placement, located at the University Center, provides a central office where graduating seniors and alumni of Pan American University may find assistance in searching for permanent employment at the time of graduation or later. The primary purpose of the Office of Placement is to bring together, in as effective a manner as possible, graduates of Pan American University and a wide variety of employers. In order to provide the best possible assistance to prospective graduates, the Office of Placement arranges for visits to the campus by various employers. These employers conduct personal interviews with graduating seniors and other interested students. Major companies, government agencies, and school districts are represented by such interviewers. Before a student may be interviewed on the campus, he must be registered with the Office of Placement. The Office of Placement administers its affairs in keeping with the University equal employment opportunity policy.

The services of the Office of Placement are available to any student regardless of his major. All seniors, especially those majoring in business and those majoring in education and seeking teaching positions, should register with the Office of Placement as early in the senior year as possible.

Career Planning:

Need help planning your career or profession? Are you in need of a part-time job? Will you be graduating soon and have no assurance of a position? These are some of the areas of assistance that are yours for the asking at the Career Planning and Placement office. A career library is available with files of occupational information, governmental agencies, and school districts from throughout the United States.

Part-time Employment:

To the extent of its ability, the Placement office will attempt to locate part-time employment for students attending the university, but students who must work while attending school will often be able to find a position in their own communities. The Placement office can assume no responsibility other than helping to locate places of employment.

Testing Service:

Testing Services include national, state, and special examinations. This office can be contacted for questions regarding tests which may be required of you.

Credit By Examination:

Pan American University offers college credit to qualified students by examination through three sources:

1. CEEB—College Entrance Examination Board Advanced Placement Examinations, or
2. CLEP—College Level Examination Program Subject Examinations, or
3. Departmental Advanced Standing Examinations.

Students interested in acquiring credit through examination are encouraged to contact the Testing office at the University Center for further information.

Counseling and Guidance

Academic and personal counseling is available to all students by trained personnel at the Counseling Center. Several tests and inventories designed to assist students in the selection of a major or minor are available for counseling purposes. The center's "walk-in service" policy makes the staff readily available to you. No appointment is necessary although sometimes it is to your advantage to schedule a specific time. Counseling sessions are strictly confidential and no information is released to anyone except upon your written request. All services rendered by the Counseling Center are completely free to students.

Financial Aid for Students

Pan American University is an equal employment opportunity institution in the administration of its financial aid program. In keeping with this policy, financial aid is extended to students without regard to race, creed, sex, or ethnic origin.

Recipients must be enrolled for a minimum of 12 hours (9 hours if graduate student) during the regular terms and a minimum of 6 hours during the summer term. Recipients must submit a family financial statement and demonstrate financial need. This statement, however, will not be required in those programs where financial need is not a criterion.

Financial assistance will be awarded to all eligible applicants on a first applied, first completed application basis. In the event where two or more completed applications are submitted on the same date, the applicant with the greatest need will be given priority.

There are several sources of student aid; through employment at the University, placement in part-time jobs off campus, scholarships, grants, and loan funds. All applications should be made to the Director of Financial Aid in the University Center building.

Work-Study Program:

The Federal Work-Study Program has enabled the University to employ a sizable number of students.

To qualify for the program a student must satisfy both the economic and scholastic requirements set forth under the program. Employment is available under the Work-Study Program both on-campus and off-campus, and a student may work for an average of 15 hours a week during any week in which classes are in session and for a maximum of 40 hours during any other week in the semester. During the summer months any Pan American University student or any high school graduate who has applied for admission to Pan American University, has been accepted, and will enroll as a full-time student in September, is qualified for the Work-Study Program provided he satisfies the other requirements

which include maintaining satisfactory academic standings. It is possible to combine the Work-Study Program with other types of financial aid in order to help secure adequate finances for a student's university career.

Grants:

Supplemental Educational Opportunity Grants: The Federal Government established this program for students of exceptional financial need. The grant may not exceed \$1,500 or one-half the sum of the total amount of financial aid made available to the student through Pan American, whichever is the lesser. The minimum grant that may be awarded is \$200. Graduate students or undergraduates who have already received a baccalaureate degree are not eligible for an S.E.O.G. grant. The actual amount and qualification is determined from the family financial statement filed with each application.

Nursing Grants: Grants are available to any student who has been accepted into the nursing program and who demonstrates exceptional financial need. The amount of the grant may not exceed \$2,000; however, the actual amount is determined by the family financial statement submitted with the application.

Pan American University Grant: Commonly referred to as "PAU Scholarship," this grant is made by the University to students with exceptional financial need and who are not on scholastic probation. The award may not exceed \$1,000 or one-half of the student's need, whichever is the lesser.

Basic Education Opportunity Grants: Available by applying directly to the office of Education through A.C.T.; the Financial Aid office determines the amount of the grant after A.C.T. has calculated family contribution. Applications are available at the Financial Aid office.

Law Enforcement Education Grant Program: Full-time law enforcement employees may apply for a grant to cover the cost of tuition, fees and books. The recipient must be pursuing a course of study beneficial to law enforcement. Grant funds will be advanced only to those students who enter into an agreement with

the U.S. Department of Justice to remain an employee for two (2) years following completion of any course for which grant funds were advanced.

Loans:

National Direct Student Loan Program (National Defense Student Loan): Recognizing the fact that loans are an increasingly important aspect of financing an education, Pan American University, by participating in the N.D.S.L. program, has some funds available with which a student may finance a substantial part of his education. A student may borrow up to \$1,500 per academic year at a low interest rate. Payout of funds borrowed starts one year from date of last attendance in an accredited institution of higher learning. Applicants are considered on the basis of financial need and demonstrated academic ability. Funds are limited and preference is given to the students who plan to teach after graduation. Further information and application forms may be secured by addressing the Financial Aid Director.

Hinson-Hazlewood Loan Program: The State of Texas, recognizing its responsibilities to the residents of Texas, established this loan program. A student may borrow up to \$1,500 per academic year at a low interest rate. The payout of funds borrowed does not start until the student is no longer attending an accredited institution of higher learning, provided that this does not exceed five years from the date the student received his first loan. Applicants are considered on the basis of financial need and demonstrated academic ability. Applicants must also be residents of Texas. Further information and application forms may be secured by addressing the Financial Aid Director.

Federally Insured Loan Program: This program has been designed for people in the middle or upper middle income bracket. A student may borrow up to \$2,000 without regard to financial need if his parents or his adjusted gross income is \$15,000 or less. A student may borrow up to \$2,500 per academic year; however, he must demonstrate need for the additional \$500. These loans are handled through the student's local bank or credit union, and it is the responsibility of each applicant to work with the bank to secure the loan. The Financial Aid Director

certifies that the student is or has been accepted for enrollment during the period the application covers, and recommends the amount of loan that the student would need in order to meet his educational costs. Submittance of a family financial statement is required only in those cases where adjusted gross income is greater than \$15,000 or where the maximum loan of \$2,500 is being applied for. The loan carries a low interest rate and is guaranteed by the U.S. Government. Additional information and application forms may be secured at the Financial Aid office.

Law Enforcement Education Program: All students majoring in Law Enforcement Science are eligible to apply for a LEEP Loan. A student may borrow up to \$1,800 at low interest rates. To receive a loan, the student must be able to (1) show financial need; must (2) demonstrate that he would be eligible for employment by a law enforcement agency; (3) be a full-time student; and (4) maintain an adequate academic standing.

Sally Ross Sanders Loan Fund: Fund established by the past presidents of the Rio Grande Valley Federation of Women's Clubs. Loans are not to exceed \$25.00 and bear no interest. Loans must be repaid within the semester in which the loan is made.

College Short-Term Loans: This loan fund has been made possible through donations from a number of individuals and organizations.

A portion of this fund is also made up of memorials given in memory of Dr. J. B. Speer, Robert Karle, Gene Wilder, Emilia Ramirez, Eva L. Calderon, S. D. Hendrix, Ralph Morgan, Mrs. Joe Chapa, Clarence Durham Sr., Bill Robe, A. L. Cramer, John McFarland, Candace Walters, Charles Magurean, Ellis Thomas and E. E. Vickers. Individual donations have been received from the San Juan Music Club, Mrs. Jimmy Roach Nicholson, and Delta Kappa Gamma Rho Chapter. These funds are administered by the college and are available to students for short-term loans. These loans are limited to no more than \$148 and must be repaid within the semester for which said funds were borrowed. The funds are designed to aid students who do not

have sufficient funds to pay tuition, purchase books and supplies, and other such items, or to assist students when emergencies arise. A \$2.00 charge is assessed against each loan.

Edinburg Rotary Loan Fund: This loan fund has been established through a very generous donation from the Edinburg Rotary Club. This fund is available to students on a short-term basis. A student may borrow a maximum of \$148 per semester and must repay this loan within the semester borrowed. A \$2.00 service charge is assessed against each loan.

McAllen Rotary Loan Fund: This loan fund has been established by a donation from the McAllen Rotary Club. The fund is available to students on a short-term basis who may borrow a maximum of \$148 per semester and repay the loan within the semester borrowed. A \$2.00 service charge is assessed against each loan.

L. D. Gilmore Memorial Loan Fund: This fund has been established through individual donations in memory of Dr. Gilmore. Preference will be given to students majoring in the educational field and is available on a short-term basis. Students may borrow a maximum of \$148 per semester and repay the loan within the semester borrowed. A \$2.00 service charge is assessed against each loan.

Bing Crosby Student Loan Fund: The Bing Crosby Youth Fund Foundation has awarded Pan American University a loan fund to provide PAU students with means of offsetting their educational costs. All full-time students in satisfactory academic standing are eligible to apply. Applications are available at the Financial Aid office.

Model Cities Loan Fund: An emergency loan program established through a grant from the Model Cities Program of Edinburg and designed to allow residents of Edinburg, Texas to borrow an estimated cost of tuition, fees and books. The loan bears no interest but each loan is assessed a \$2.00 service and processing fee. The loan is repayable within the semester made.

Educational Foundation of Texas Society of CPA's: This fund has been established by the Foundation for loans to accounting students of upper-class rank.

Loans will be made on the basis of need for financial assistance, scholastic record, faculty recommendation and dedication toward careers in any phase of accounting. These loans carry a low interest rate. Brochures may be obtained from the Director of Financial Aid or Dean of the Business School.

Scholarships:

It is not possible to list all scholarships at present since many are being given directly to students from specific towns by organizations in the town or city. A partial list of some scholarships follows:

First honor graduates from accredited high schools of Texas are eligible for a scholarship which covers full cost of tuition for the freshman year at the University. These students are certified through the Texas Educational Agency. Initial enrollment must be in this University.

The member of the Freshman class who makes the highest average in his class during a regular college year receives an award covering full cost of tuition for the second half of his sophomore year. To be eligible for the award the student must have attended Pan American University the entire freshman year and must have carried at least 14 semester hours of credit work each semester.

The Texas Education Agency, through the Division of Vocational Rehabilitation, offers payment of tuition and other services to civilian students who have certain physical handicaps, provided the vocational objective selected by the student has been approved by a representative of the Division. Application for Vocational Rehabilitation should be made to the Division of Vocational Rehabilitation, 609 McKelvey Building, Harlingen, Texas, or to Director, Division of Vocational Rehabilitation, Capitol Station, Austin, Texas.

Good Neighbor Scholarships:

The scholarships are available to students from Hispanic-America. Applications should be made to the Foreign Student Adviser office before the following dates:

Fall	May 15
Spring	December 15
Summer Session	February 15

Tuition Scholarships:

A limited number of tuition scholarships will be available for the academic year. Applications should be made to the Office of the Director of Financial Aid.

Among scholarships donated through the University, but with the recipient designated by the donor are: P.S.J.A. Pan American Round Table; American G.I. Forum; Crown Zellerback; Los Compadres Club of McAllen; Edinburg Classroom Teachers; Griffin and Brand; San Juan Lions Club; and Texas Inter-Scholastic League. Scholarships granted by certain religious or fraternal organizations are: Catholic War Veterans of McAllen; Board of Missions; United Methodist Church; Rio Grande Conference Methodist and Woodmen of the World, grove 6924. Others granted by individuals or organizations include: McAllen Classroom Teachers; James P. Mathis; Congressman E. (Kika) de la Garza; Travis School P.T.A.-Edinburg; Weslaco Rotary and Lulac of Weslaco and McAllen.

Applications should be submitted to Financial Aid Department, Pan American University.

Band and Choir Scholarships: Assistantships are available each year for band, orchestra, and chorus students, and applications should be made to the Head of the Music Department.

Central Power and Light Company Scholarships: Each year Central Power and Light Company makes available one scholarship to a beginning freshman majoring in Business Administration. Each scholarship provides for one of the standard courses leading to a Bachelor's degree in Business Administration. Scholarships have a maximum value of \$2,400 payable at the rate of \$300

per semester until graduation as long as satisfactory standards are maintained. Applications must be submitted to the Financial Aid office by April 20. Application blanks may be secured from your high school principal, the manager of any Central Power and Light Company office, or by writing to the Director of Financial Aid, Pan American University, Edinburg, Texas.

The Joe and Jess Crump Scholarship: Graduates from Hidalgo County high schools with grades above average in the school from which they have graduated may apply to the trustees of the Joe and Jess Crump Scholarship Trust Fund for financial assistance in order to attend Pan American University. The trustees may advance at their discretion annually to such students an amount equal to the year for which the application is made and approved and for succeeding years while such students are still attending Pan American University and are deemed worthy by the trustees. Applications should be made through the office of the Director of Financial Aid by July 15 for the fall semester; November 15 for the spring semester.

The Harry E. Wilcox Engineering Scholarships: Consists of two scholarships covering tuition, books and fees. Application should be made to the Head of the Department of Physical Sciences.

The Lemont Wilcox Music and Art Scholarships: Consists of Art and Music scholarships. Applications should be made in writing to the Heads of the Department of Art or the Department of Music.

Rio Grande Valley Gem and Mineral Society Scholarship in Geology: Applicants for this scholarship must be geology majors or minors or Earth Science majors or minors. Applications should be sent direct to the head of the Department of Physical Science. Scholarship is awarded on a semester basis only.

The Burton Grossman Scholarship: This scholarship is offered each semester through the Inter-American Institute to help defray expenses toward room, board and incidentals. Recipients must be residents and citizens of Mexico and otherwise qualified. Applications should be submitted to the Vice-President of the Inter-American Institute.

Student Health Service

Student Health Service, located in Emilia Hall is open five days a week, from 8:00 A.M.-4:30 P.M. and offers the following services:

1. *Assistance to the ill and injured*—When the ill or injured student comes to the Health Service, he is assisted by a registered nurse; if his condition is serious, he is referred to a local doctor, and if necessary, transportation is provided. In case of an emergency, a physician is available at the Emergency Room of the Edinburg General Hospital.
2. *Maintenance of Student Health Records*—Student's health and immunization records are kept on file at the Student Health Service office. This serves as a point of reference each time the student consults the Health Service for information or treatment.
3. *Notification of Absences*—Upon notification, this office will inform the student's professor of any illness or injury which would prevent the student from attending his regularly scheduled classes for an extended period of time.
4. *Counseling Service*—Dr. Richard Bohannon, the Pan American University psychiatrist, will be in the Health Service office every Wednesday afternoon. Appointments may be made through the office, either in person or by telephone.
5. *Student Insurance*—Each student is covered by a limited insurance policy for injuries sustained while in attendance at the University. Forms to be completed in case of injury may be obtained from the Health Service office. (See "Student Insurance" in Business Affairs Section for a complete description of benefits).
6. *Physical Examinations*—A complete physical examination is required for those students:
 - A. Residing in the resident halls
 - B. Students in the Division of Health Related Professions
 - C. H.E.P. students
 - D. Pan American University Athletic Department

The processing of these physical examinations will be handled by each individual department.

The above does not eliminate the State requirement for up-to-date Diphtheria-Tetanus and Polio immunizations. These separate certificate blanks should be sent in with applications for admission.

7. *Immunizations*—Under Texas State Law, Diphtheria-Tetanus and Polio immunizations are required for all University students. These immunizations are available at the Health Service office through the courtesy of the Hidalgo County Health Department.
8. *Tuberculin Skin Test*—Tuberculin skin tests are available for any student wishing to obtain one. They are especially available to those students who wish to meet their student teaching requirements.
9. *Dental care*—Students with dental problems or dental emergencies may use the office as a referral source to local dentists. Local dentists are also available at nighttime on an emergency basis through the Edinburg General Hospital.
10. *Health and Drug Information*—This office is a Health Information Center. Brochures are available on many varied subjects. Students desiring any type of health and drug information should feel free to inquire at the Health Service office. All consultations and information are confidential.

Student Publications

"The Pan American"

Pan American University students write and edit the university's weekly newspaper.

Contributions are made by students in the mass communications classes working as volunteers on the staff. The work ordinarily begins a few days before fall registration and the newspaper is published each Wednesday for distribution on the cam-

pus. Some junior and senior positions on the papers are compensated and volunteer workers are sought as reporters, copy-readers and headline writers.

"El Bronco"

El Bronco is the university's yearbook, a publication by and for the students. Writers, editors and photographers are students, many of them volunteers who supplement the paid staff, consisting principally of juniors and seniors. Work on the yearbook begins in the summer so publication can be accomplished prior to the end of the long term each May. Volunteers who wish to join the staff may apply at any time.

University Center

The University Center is the nucleus of student activities and services and houses the offices of the Vice-President of Student Affairs, Dean of Men, Dean of Women, University Center Director, counseling services, financial aid offices, foreign student information, career information, testing, and job placement services.

The second and third floor provide a variety of recreational facilities. Offices for Pan American University Student Association, University Center Program Council (UCPC), student organizations, conference rooms, lounge areas, recreation area with billiards, table tennis, card tables, and a T.V. room are all found here.

Student Government, UCPC, sororities, fraternities, and students all plan and undertake a variety of activities throughout the year.

The Cafeteria, Snack Bar, Ballroom, and Bookstore are all located in the same area of the University Center.

Identification Cards

ID's are issued through the supervision of the University Center Director. Use of the student ID card is governed by the following conditions:

1. It remains the property of Pan American University and must be surrendered:
 - (a) To the Office of the Registrar upon withdrawal. No transcript or official records will be released until it has been surrendered.
 - (b) To any faculty member, administrative official or security officer of the university on demand.
2. It must be presented for:
 - (a) Admission to the Library and use of its facilities.
 - (b) Any school or faculty sponsored activity.
 - (c) Admission to all varsity and freshman athletic events.
 - (d) Identification for cashing checks on the campus.
 - (e) Authorization to resell books to the Book Store.
 - (f) Checking out equipment from the University Center office.
 - (g) Securing transcripts from the Office of the Registrar.
3. This card is Non-Transferable. Loss or mutilation must be reported to the Office for Business Affairs, AND A CHARGE OF \$5.00 WILL BE MADE FOR REPLACEMENT.

Traditions and Events

Over a period of years, PAU students have initiated and traditionally conducted a number of events of great interest to all students.

Bronco Days:

The week before Thanksgiving, a number of competitive events are scheduled primarily for the sake of fun and creating a spirit of student organization, fraternity, or sorority loyalty. While western attire is the order for the week, such events as cigar-smoking contest, cow-chip throw, sack relays, three-legged race, and other frolicking competitions take place during the week. The election of Bronco Queen and a dance culminate a week of fun activities.

Pan American Week:

The observance of Pan American Week takes place in April of each year. Events scheduled for this week focus on Pan American University's motto, "Where Two Cultures Blend." International understanding and a good neighborly spirit among nations prevail. Foreign and American students participate in an all-campus assembly and a flag ceremony involving the different flags of Latin-American countries. Musical and cultural programs are scheduled along with international speakers. The week is climaxed with a ball and the yearly coronation of Miss Pan American.

Carnival of the Great Pumpkin:

Mud slides, egg-throwing, haunted houses, games, food, musical groups, and a lot of imaginative booths combine for a night of fun and frolic come Halloween night. The University Center Program Council with the cooperation of approximately thirty student organizations, fraternities, and sororities vie for prizes in the coordination of activities for the night.

Greek Week:

Greek Week provides another week of competitive fun among fraternities and sororities on campus. Chariot races, tug-of-war, and volleyball matches are part of the week's activities.

Faculty Artists Series:

During the school year, the Fine Arts Department presents a series of performances by regular faculty members along with student recitals. Included in these recitals are pianists, violinists, and professional singers. Also performing for students and the general public is the choir, the PAU Dancers, the stage band, and the Valley Symphony Orchestra.

Special Programs

College Assistance Migrant Program (CAMP):

This program provides higher education opportunities for young migrant adults. Students qualifying and selected for this program receive assistance with supportive services, financial assistance, and part-time jobs.

Proyecto Esperanza:

Funded by the Office of Education, Proyecto Esperanza is one of 190 Special Services programs operating on university and college campuses throughout the U.S. Its purpose is to serve low-income freshman and sophomore students with higher education potential with an innovative curriculum, supportive services, such as counseling and tutorial services, career planning, and cultural enrichment.

Upward Bound:

Special Services also provides this program for low-income, high school students at the sophomore, junior, and senior levels primarily with a Saturday and summer program for the general purpose of acquainting these students with a University setting with a curriculum designed to reinforce the basic reading, writing, math, and study skills essential for meeting success at the University.

High School Equivalency Program:

Pan American University High School Equivalency Program was funded in July 1971 through the Office of Economic Opportunity—Migrant Division. Presently, the High School Equivalency has been transferred to the Department of Labor. On campus H.E.P. is operated through the Division of Student Affairs.

The H.E.P. goals are to take students who have dropped out of school, 18-24 years old, legally single, legal residents, of migrant or seasonal farmworker families, at the poverty level, to a level of sustained, progressive employment. The three-phase approach of H.E.P. (with the GED certificate being a sub-goal) is to help students obtain and hold a job, obtain skills through training, or to continue their education at the university level.

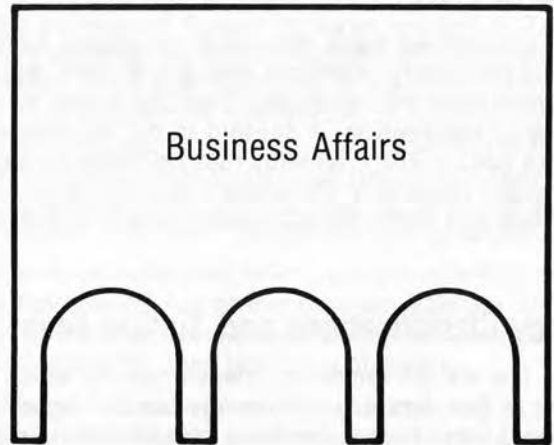
H.E.P. is a dynamic, innovative, and successful nationwide educational program that has proven to help students make it back into the mainstream of American life.

Pan American University H.E.P. offices are in Emilia Hall.



The wild west is revived at the Six Shooter Junction entertainment center (above) in Harlingen. "Winter Texans" (right) escape northern winters and enjoy the sunshine at Bentsen Rio Grande Valley State Park. Seagulls are alert for a handout (far right) on the sunny beaches of Padre Island.





Student Expenses

The cost of attending Pan American University is reasonable; in fact, it is considerably less than many institutions. Moreover, a broad student-aid program consisting of part-time employment, scholarships, and loans provides an 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 all University 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 six (6) 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 (4½ 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 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 ½ 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 Director of Admissions and have his status officially determined.

Every student who is classified as a resident student 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 Director 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 Director 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 bonafide 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 in 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 bonafide 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 per cent 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 or 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:

Student Service Fees are computed at \$3.00 per semester hour with a maximum of \$27.00 per regular term and \$15.00 for summer term.

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	27.00	63.00	174.00
20	80.00	27.00	60.00	167.00
19	76.00	27.00	57.00	160.00
18	72.00	27.00	54.00	153.00
17	68.00	27.00	51.00	146.00
16	64.00	27.00	48.00	139.00
15	60.00	27.00	45.00	132.00
14	56.00	27.00	42.00	125.00
13	52.00	27.00	39.00	118.00

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
12	50.00	27.00	36.00	113.00
11	50.00	27.00	33.00	110.00
10	50.00	27.00	30.00	107.00
9	50.00	27.00	27.00	104.00
8	50.00	24.00	24.00	98.00
7	50.00	21.00	21.00	92.00
6	50.00	18.00	18.00	86.00
5	50.00	15.00	15.00	80.00
4	50.00	12.00	12.00	74.00
3	50.00	9.00	9.00	68.00
2	50.00	6.00	6.00	62.00
1	50.00	3.00	3.00	56.00

*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	27.00	63.00	930.00
20	800.00	27.00	60.00	887.00
19	760.00	27.00	57.00	844.00
18	720.00	27.00	54.00	801.00
17	680.00	27.00	51.00	758.00
16	640.00	27.00	48.00	715.00
15	600.00	27.00	45.00	672.00
14	560.00	27.00	42.00	629.00
13	520.00	27.00	39.00	586.00
12	480.00	27.00	36.00	543.00
11	440.00	27.00	33.00	500.00
10	400.00	27.00	30.00	457.00
9	360.00	27.00	27.00	414.00
8	320.00	24.00	24.00	368.00
7	280.00	21.00	21.00	322.00
6	240.00	18.00	18.00	276.00
5	200.00	15.00	15.00	230.00
4	160.00	12.00	12.00	184.00
3	120.00	9.00	9.00	138.00
2	80.00	6.00	6.00	92.00
1	40.00	3.00	3.00	46.00

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

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
21	294.00	27.00	63.00	384.00
20	280.00	27.00	60.00	367.00
19	266.00	27.00	57.00	350.00
18	252.00	27.00	54.00	333.00
17	238.00	27.00	51.00	316.00
16	224.00	27.00	48.00	299.00
15	210.00	27.00	45.00	282.00
14	200.00	27.00	42.00	269.00
13	200.00	27.00	39.00	266.00
12	200.00	27.00	36.00	263.00
11	200.00	27.00	33.00	260.00
10	200.00	27.00	30.00	257.00
9	200.00	27.00	27.00	254.00
8	200.00	24.00	24.00	248.00
7	200.00	21.00	21.00	242.00
6	200.00	18.00	18.00	236.00
5	200.00	15.00	15.00	230.00
4	200.00	12.00	12.00	224.00
3	200.00	9.00	9.00	218.00
2	200.00	6.00	6.00	212.00
1	200.00	3.00	3.00	206.00

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
6	26.00	18.00	18.00	62.00
5	22.00	15.00	15.00	52.00
4	20.00	12.00	12.00	44.00
3	20.00	9.00	9.00	38.00
2	20.00	6.00	6.00	32.00
1	20.00	3.00	3.00	26.00

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	15.00	27.00	88.00
8	32.00	15.00	24.00	71.00
7	28.00	15.00	21.00	64.00
6	25.00	15.00	18.00	58.00
5	25.00	15.00	15.00	55.00
4	25.00	12.00	12.00	49.00
3	25.00	9.00	9.00	43.00
2	25.00	6.00	6.00	37.00
1	25.00	3.00	3.00	31.00

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

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
21	50.00	27.00	63.00	140.00
20	50.00	27.00	60.00	137.00
19	50.00	27.00	57.00	134.00
18	50.00	27.00	54.00	131.00
17	50.00	27.00	51.00	128.00
16	50.00	27.00	48.00	125.00
15	50.00	27.00	45.00	122.00
14	50.00	27.00	42.00	119.00
13	50.00	27.00	39.00	116.00
12	50.00	27.00	36.00	113.00
11	46.00	27.00	33.00	106.00
10	42.00	27.00	30.00	99.00
9	38.00	27.00	27.00	92.00
8	34.00	24.00	24.00	82.00
7	30.00	21.00	21.00	72.00

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

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	360.00	15.00	27.00	402.00
8	320.00	15.00	24.00	359.00
7	280.00	15.00	21.00	316.00
6	240.00	15.00	18.00	273.00
5	200.00	15.00	15.00	230.00
4	160.00	12.00	12.00	184.00
3	120.00	9.00	9.00	138.00
2	80.00	6.00	6.00	92.00
1	40.00	3.00	3.00	46.00

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	15.00	27.00	168.00
8	112.00	15.00	24.00	151.00
7	100.00	15.00	21.00	136.00
6	100.00	15.00	18.00	133.00
5	100.00	15.00	15.00	130.00
4	100.00	12.00	12.00	124.00
3	100.00	9.00	9.00	118.00
2	100.00	6.00	6.00	112.00
1	100.00	3.00	3.00	106.00

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

No. Hr.	Tuition	Student Service Fee	Building Use Fee	Total
9	25.00	15.00	27.00	67.00
8	25.00	15.00	24.00	64.00
7	25.00	15.00	21.00	61.00
6	25.00	15.00	18.00	58.00
5	22.00	15.00	15.00	52.00
4	20.00	12.00	12.00	44.00
3	20.00	9.00	9.00	38.00
2	20.00	6.00	6.00	32.00
1	20.00	3.00	3.00	26.00

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 (Undergraduate Degrees) ..	20
	Graduation Fee (Graduate Degrees)	25
(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
	Returned Check Charge	5
(11)	ACT Residual Test (Scheduled dates)	8.50
	ACT Residual Test (Non-schedule dates) ...	10
(12)	Replacement of ID Card	5
(13)	Bowling Fee	14
(14)	Thesis Binding	15
(15)	Thesis Microfilming	20
(16)	MAT	7.50
(17)	CLEP/Subject Course	15
(18)	Horsemanship	50
(19)	Copyright Thesis Fee	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, the student shall pay a fee of addition to the regular tuition.

Courses:	Regular Session	Summer Session
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 per course. This may be done by obtaining the proper audit card from the instructor's department head, 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 examina-

tions or have tests or other papers checked by the instructor. Students do not receive credit for a course taken by audit. Audited courses are not posted on the students' permanent records.

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 \$20.00 is required of candidates for undergraduate degrees, and a graduation fee of \$25.00 is required of candidates for graduate degrees. The application for graduation to be presented to the Registrar's office 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 as from the fall to the 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 fee of 25¢ each.
- (8) **Change of Schedule Fee:** Change of schedule means the adding of a course, the dropping of a course, or both, after the initial registration has been completed. A fee of \$2.00 is charged for each 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 due to an error in writing the check, the student will be assessed a penalty of \$2.00 for each check returned. A \$5.00 fee is charged for those checks which are returned due to insufficient funds and/or closed bank accounts. The student 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 or \$5.00 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 tests 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 \$14.00 fee for all students participating in a bowling course.
- (14) **Thesis Binding:** 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.
- (15) **Thesis Microfilming:** Each Master's thesis is microfilmed and placed in the Pan American University Library.
- (16) For further information regarding credit by examination or any kind of testing, please contact the Office of Career Planning and Testing which is located at the University Center.
- (17) The use of the horse, gear, and riding area.
- (18) If a student wishes to copyright his Masters thesis. For further information, contact 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 Coordinator of Auxiliary Enterprises. A single fixed charge will be levied for room and board and may not be separated.

Full payments (including tax):

Men's and Women's Residency Hall	
Regular Semester (4¼ months)	Summer Session (5 weeks)
\$465.00	\$160.00

Installment Payments:

Students who wish to pay room and board by installments must have such arrangements approved by the Coordinator of Auxiliary Enterprises. A carrying charge of \$5.00 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.

Men's and Women's Residency Halls				
	At Registration	Oct.	Nov.	Dec.
	Sept.	1st	1st	1st
First Semester (Fall)	139.00	139.00	139.00	48.00
	At Registration	Feb.	Mar.	Apr.
	Jan.	1st	1st	1st
Second Semester (Spring)	139.00	139.00	139.00	48.00
	At Registration	July		
	June	1st		
First Summer Session	113.00	47.00		
	At Registration	Aug.		
	July	1st		
Second Summer Session	113.00	47.00		

Telephone Payments:

Any payment and/or information concerning phone service in the dormitories are to be referred directly to Southwestern Bell Company.

Dormitory Reservation and Room Deposit:

Applications for dormitory room reservations are 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

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.

Form to be completed in case of injury may be obtained from the Health Service office 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.

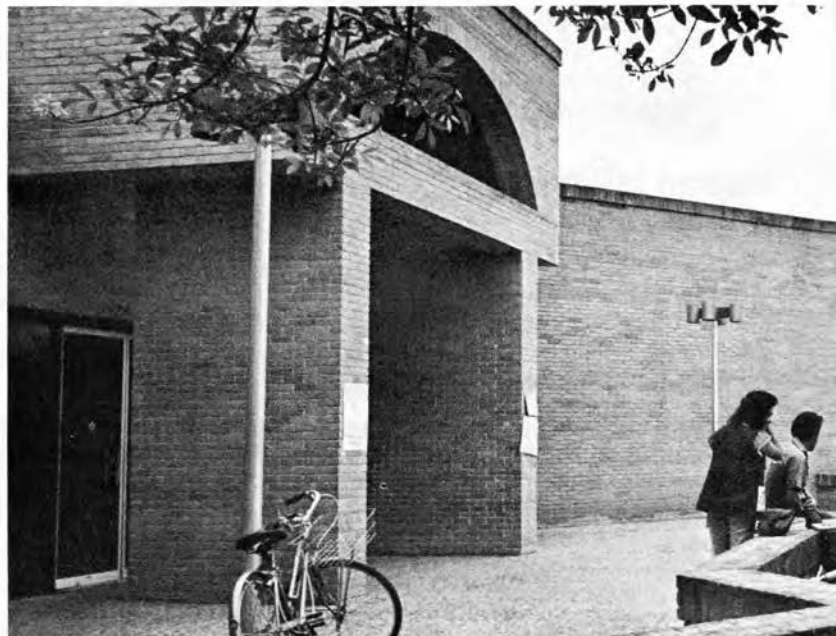
The cost of this coverage is included in the student service fee paid by each student.

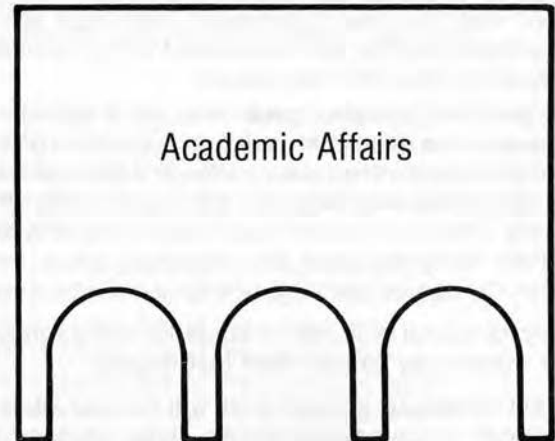
Summary of Estimated Cost Per Semester

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

Tuition and Fees (Resident Student)	Regular Semester (4½ Months)	Summer Session (6 Weeks)
Tuition	\$ 60.00	\$ 25.00
Student Service Fee	27.00	15.00
Building Use Fee (\$3.00 per sch-15 hrs)	<u>45.00</u>	<u>18.00</u>
Total Required Fees	\$ 132.00	\$ 58.00
Laboratory Fees (estimated)	4.00	2.00
Books and Supplies (estimated)	<u>50.00</u>	<u>20.00</u>
Estimated Total for Student living off-campus	\$ 186.00	\$ 80.00
Room and Board (including tax)	<u>\$ 465.00</u>	<u>\$160.00</u>
Resident of State of Texas Estimated total	\$ 651.00	\$240.00
With adjustments made on Tuition charges:		
Nurses	(10.00)	<u>—0—</u>
Estimated Total	\$ 641.00	\$240.00
Students who are citizens of any country other than the U.S. of America	<u>10.00</u>	<u>—0—</u>
Estimated Total	\$ 811.00	\$302.00
Non-Residents	<u>390.00</u>	<u>140.00</u>
Estimated Total	\$1201.00	\$455.00

Three students (below) have free time before class and chemistry Laboratory activity (right) is the day's assignment. An art student (far right) puts the final touches on a painting as other students enter the university library (lower right) which houses more than 130,000 books.





Graduate School Admission

Information concerning the admission requirements for graduate school at Pan American University may be found in the graduate school section of this bulletin.

Undergraduate Admission

Methods of Admission

A student is admitted to Pan American University through the Office of Admissions. He may gain admission by:

1. Presentation of a transcript of his high school record showing that he is a graduate of an accredited high school, his rank in class, and that he has earned at least 16 accredited high school units. Included among the 16 units must be: three units in English; two units in mathematics, at least one of which must be in algebra; and a minimum of six units from the three fields of: a foreign language, social science, and natural science (with at least two units from each of two of these fields.)
2. A person who has never graduated from high school may enter by qualifying for the issuance of a high school certificate based on the GED test results.
3. Any student who has ever been enrolled in another college must have on file in the Office of Admissions an official transcript sent directly from each college previously attended before he can be considered for admission to Pan American University. Failure to submit such transcripts is grounds for immediate dismissal from this university when admission has been gained by ignoring previous college work.

The only transcript required for students with degrees is from the college where they earned their last degree.

A student's previous college work will be evaluated in terms of Pan American University standards. Those students who are

on academic suspension by these standards will not be granted admission for a regular semester during the period of suspension. Students on suspension are encouraged to enroll for summer sessions to repeat courses in which they have low or failing grades. For admission to a regular semester while on suspension see the section on scholastic suspension in this bulletin.

It should be noted that Pan American University is an equal opportunity educational institution. Under this philosophy, students are admitted to the University without regard to race, creed, color, sex, or ethnic origin.

Procedure for Admission

Any student entering Pan American University for the first time must submit the following:

1. A completed Pan American University application for admission form.
2. *Complete official transcript.*
 - a. Beginning Freshmen: An official high school transcript.
 - b. Transfer Students: See section 3 under Methods of Admission.
3. Immunization Certificate.
4. Scores from the American College Testing Program tests are preferred, but CEEB'S SAT scores are acceptable. Students who have not filed test results with the University may take the test at Pan American University at the time indicated on the official calendar as published in this catalog. A fee will be required.
5. Immunization Requirements — Under Texas State Law, up-to-date Diphtheria-Tetanus and Polio immunizations are required for all University students. Immunization Certificates can be obtained from and will be processed through the Office of Admissions.

Foreign Students

Students from outside the United States wishing to enroll at Pan American University must submit a "Request for Application" form indicating their educational background, financial status, and the score obtained on the TOEFL examination.

To be eligible for admission a foreign student must have the equivalent of a high school education in the United States, a score of 500 on the TOEFL Level I examination, and be able to finance his studies at Pan American University. Approval of the Dean of Admissions is required if the conditions given above are not met. The I-20 form will be issued by the Foreign Student office after the student has been accepted for admission to Pan American University. After he has been notified of his acceptance to the University he should immediately contact the Foreign Student office for information concerning housing.

Definitions

The rules and regulations of the University use terms that have specific meaning but which are not always clearly understood by the student. For his benefit, some of the more common terms are defined in this section. This listing is alphabetical.

Advanced Level Work: Courses numbered either 3000 or 4000 are called advanced or upper division courses. Normally, a student with fewer than 60 semester hours of credit may enroll in 3000 or 4000 courses only when his schedule includes enough lower level (1000 and 2000 courses) work to total at least 60 semester hours, in addition to the upper level courses for which he wishes to enroll. Approval of the Department Head or Dean of the School is required if the conditions given above are not met for advanced level enrollment.

Auditor: A student who has special permission to audit or visit a class without receiving academic credit is listed as an auditor. One may enroll as an auditor at ANY TIME BY: obtaining the proper audit card from the instructor's Department Head, 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 receipt as an admission card to the class. Enrollment as an auditor does not permit the enrollee to take examinations, have test or other papers checked by the instructor, or to participate in the class discussion. Audited courses are not posted on the student's permanent record.

Class Load: Normally 18 semester hours in a regular semester or 7 semester hours in a summer semester is the maximum load that a student can carry and maintain satisfactory grades.

Classification of Students: Students are classified according to the number of semester hours of college credit they have earned.

A student is classified as a *freshman* if he has fewer than 30 semester hours of college credit.

Sophomores have 30-59 semester hours of semester credit.

Juniors have credit for 60-89 semester hours of credit.

Seniors are students who have credit for 90 or more semester hours. Students who hold a degree are classified as *special* students.

Graduates are students who have an undergraduate degree and have been accepted in a Master's Degree program.

Special Graduates are students who have a graduate degree and are continuing in a graduate program.

Course Numbers: Courses are numbered to show both the collegiate level at which they are offered and the semester hour value of the course. The first digit shows the level and the second digit shows the credit hours. The last two digits are merely departmental designations.

1000 courses are at the freshman level
2000 courses are at the sophomore level
3000 courses are at the junior level
4000 courses are at the senior level
5000 courses are at the graduate level
6000 courses are at the graduate level
7000 courses are at the graduate level

For example the catalog entry, Spanish 1301, shows that the course is given in the freshman year and that it carries three hours of credit per semester. All courses ending in the numbers 87 and 88 are honors courses.

Degree Plan: A Degree Plan is an outline of the courses a student must complete or other conditions he must comply with in order to meet the requirements for graduation for a specific degree. This Degree Plan should be made out not later than the first semester of the junior year and it is often helpful to complete it earlier than this. While a student may make a Degree Plan without consulting any source except listed catalog requirements, he must have the Plan approved by the Department Head and the Dean of his school before he can submit an Application for Degree to the Registrar.

Full-Time Student: Full-time Undergraduate Student — An undergraduate student who is enrolled for at least 12 semester hours of credit during a regular semester or at least 6 semester hours of credit during a summer session.

Full-time Graduate Student – A graduate student who is enrolled for at least 9 semester hours of credit during a regular semester or at least 4 semester hours of credit during a summer session.

Grade Point Average: The grade point average is computed by dividing the total grade points earned by the total semester hours attempted. (See the sections on Quality of Work: (1) Grading System and (2) Grade Points.)

Graduation under a specific Bulletin: The student may meet the requirements for graduation that are listed in the bulletin of the year in which he enters college or some later bulletin. However, the student must graduate within seven years from the academic year of entrance or he must be placed under the provisions of a later bulletin. Any changes in his degree plan to comply with a later bulletin must be approved by his department head and the dean of his school.

Honor Roll: After each regular semester an honor roll is published listing the names of all full-time students who have a grade point average of 3.5 or better for that semester.

At graduation, students are listed with "Honors" in accordance with the following standards based on their final over-all grade point average:

Cum Laude — A grade point average of 3.0 to 3.49.

Magna Cum Laude — A grade point average of 3.5 to 3.74.

Summa Cum Laude — A grade point average of 3.75 or more.

Non-credit Enrollment: A student who enrolls in a course for credit may change his enrollment to non-credit. Any change in credit status must be made through the Registrar's office, not later than one month in a regular semester or ten days in a summer semester from the date classes begin. The student may take tests, have papers graded and receive the same classroom attention given students enrolled for credit but may not receive credit for the course at the close of the semester.

Prerequisite: This term means that specified requirements must be met before one can enroll in a course. Specific prerequisites are listed in course descriptions.

Probation: A student is placed on scholastic probation when he fails to achieve the required overall grade point average. A student may be placed on disciplinary probation for infraction of any university regulation. In either case, he must satisfy specific requirements placed on him before he can return to a non-probationary status.

Semester Hour: College credit is measured in terms of semester hours. Ordinarily, a class that meets one 50-minute period per week for a semester will carry a credit of one semester hour. Since the majority of classes meet three periods, or their equivalent, each week, these classes carry three semester hours of credit. Two or three laboratory hours per week are usually required for one semester hour of laboratory credit.

Non-Traditional Education Credit

A maximum of 45 semester hours of college credit will be accepted towards a Bachelor Degree by any combination of extension, examination and correspondence with an 18-hour limit on correspondence credit.

Credit By Examination

Pan American University offers college credit to qualified students by examination as follows:

College Entrance Examination Board
Advanced Placement
and
Achievement Examinations

American History

1. Credit for three hours in American history (History 2313) is given with College Entrance Examination Board (CEEB) Advanced Placement Test scores of 4, or 5. A grade of A is given for a 5; a grade of B for a 4. If the score is 3, the faculty reviews the examination and decides whether or not to give credit for History 2313.
2. Credit without a grade for three hours in American history is given with a score of 550 or higher on the College Entrance Examination Board (CEEB) Achievement Test in American history.

Biology

1. Credit for eight hours of biology (Biology 1401-1402) is given with College Entrance Examination Board (CEEB) Advanced Placement Test scores of 4 or 5. A grade of A is given for a 5; a grade of B for a 4.
2. If the score is 3, the faculty reviews the examination and decides whether or not to grant credit for either Biology 1401 or 1402.

Chemistry

1. Credit for eight hours of chemistry (Chemistry 1401-1402) is given with College Entrance Examination Board (CEEB) Advanced Placement Test scores of 4 or 5. A grade of A is given for a 5; a grade of B for a 4.

2. If the score is 3, the faculty reviews the examination and decides whether or not to grant credit for either chemistry 1401 or 1402.
3. Students with scores of 600 or more on CEEB Achievement Test in Chemistry may enroll for Chemistry 1402 as independent credit without the prerequisite of Chemistry 1401. No credit is given for Chemistry 1401. If the CEEB Achievement Test score is 550 but less than 600, the student may request consideration of the Chemistry Department Head to waive the Chemistry 1401 prerequisite on the basis of his score, the ACT score, and the high school record.

English

1. Credit for six hours in English (English 1301-1302) is given with College Entrance Examination Board (CEEB) Advanced Placement Test scores of 4 or 5. A grade of A is given for a 5; a grade of B is given for a 4.
2. If the score is 3, the faculty reviews the examination and decides whether or not to give credit for either English 1301 or 1302.

European History

1. Credit for six hours in European history (History 1333-1334) is given for College Entrance Examination Board (CEEB) Advanced Placement Test scores of 4 or 5. An A is given for a 5; a B for a score of 4.
2. If the score is 3, the faculty reviews the examination and decides whether or not to grant credit for either History 1333 or 1334.

Mathematics

1. Credit for three hours in mathematics (Math 1307) is given for College Entrance Examination Board (CEEB) Advanced Placement Mathematics AB Test scores of 4 or 5. An A is given for a 5; a B is given for a 4.

2. If the score on the Mathematics AB Test is 3, the faculty reviews the examination and decides whether or not to grant credit for Math 1307.
3. Credit for six hours in mathematics (Math 1307-1308) is given for College Entrance Examination Board (CEEB) Advanced Placement Mathematics BC Test scores of 4 or 5. An A is given for a 5; a B is given for a 4.
4. If the score on the Mathematics BC Test is 3, the faculty reviews the examination and decides whether or not to grant credit for either Math 1307 or 1308.
5. Any student who scores 28 or above on the mathematics section of the ACT may take in advance of registration and upon payment of a fee a local advanced placement examination designed and administered by the faculty. Such an examination may be taken for Math 1304, Math 1305, or both.

Physics

1. Credit for eight hours in physics (Physics 1401, 1402) is given for College Entrance Examination Board (CEEB) Advanced Placement Physics B or C Test scores of 4 or 5. An A is given for a 5; a B is given for a 4.

High school seniors anticipating advanced placement should make arrangements with their counselors to take the proper examination. This should be far enough in advance of their first college semester for their scores to be received by the University and to be evaluated by the faculty before the first registration period begins. Inquiries should be addressed to the heads of the departments in which advanced placement will be sought.

College Level Examinations Program— Subject Examinations

Application forms, examination dates and examination descriptions may be obtained from the Pan American University Testing Center.

Successful completion of a Subject Examination will be recorded on the student's official transcript as credit received—"CR." Unsuccessful attempts to earn credit by examination will not be recorded on the student's official transcript.

The CLEP Subject Examination List along with the minimum examination scores for credit and the number of credit hours, are available in the Pan American University Testing Center.

Advance Standing Examinations

To be eligible to receive credit by means of an Advanced Standing Examination, a student must meet the following conditions:

1. He must satisfy the Department Head that he has the proper background to qualify for the test over which he desires to be examined. The application for the test must be approved by the appropriate school Dean.
2. He must make a minimum grade of "B" in order to receive credit for the course. Successful completion of an advanced standing examination will be recorded on the student's official transcript as credit received—"CR" Application forms may be obtained from the Pan American University Testing Center.

English

Any student who scores 28 or above on the English section of the ACT or 650 or better on the verbal section of the Scholastic Aptitude Test (SAT) of the College Entrance Examination may take in advance of registration and upon payment of a fee a local advanced standing examination designed and administered by the faculty.

1. For English 1301, the examination consists of the writing of essays on general topics.
2. For English 1302, the examination consists of the writing of essays about literature.

Mathematics

Any student who scores 28 or above on the mathematics section of the ACT may take in advance of registration and upon payment of a fee a local advanced standing examination designed and administered by the faculty. Such an examination may be taken for Math 1304, Math 1305 or both.

Others

Contact Department Head Offices for Requirements.

Withdrawal

To withdraw from school a student must execute a formal withdrawal procedure through the Registrar's office at least two weeks prior to the end of a regular semester and one week prior to the end of a summer semester.

A student withdrawing during the first month of class (10 days in a summer session) will receive a W on his permanent record for each course in which he was enrolled. If he withdraws later in the semester, he will be given a grade of WP or WF by the instructor for each course in which he was enrolled.

Dropping A Course

To drop a course a student must execute a formal drop procedure through the Registrar's office at least two weeks prior to the end of a regular semester and one week prior to the end of a summer semester.

A student dropping a course during the first month of classes (10 days in a summer session) will receive a DR on his permanent record for the course that he has dropped. If he drops a course later in the semester, he will be given a grade of DP or DF by the instructor for the course that he dropped.

Grading System and Grade Points

The following grades are used to designate achievement in classwork. Their corresponding grade values are indicated.

- A—Excellent (4 grade points per semester hour)
- B—Good (3 grade points per semester hour)
- C—Satisfactory (2 grade points per semester hour)
- D—Below average (1 grade point per semester hour)
- F—Failure (0 grade points per semester hour)
- I—Incomplete (not considered in calculating grade points)
- NC—No credit (not considered in calculating grade points)
- DR—Course dropped (not considered in calculating grade points)
- DP—Drop Passing (not considered in calculating grade points)
- DF—Drop Failing (considered an F in calculating grade points)
- W—Withdrawal from school (not considered in calculating grade points)
- WP—Withdraw Passing (not considered in calculating grade points)
- WF—Withdraw Failing (considered an F in calculating grade points)

A grade of "I" may be given when a student has not completed 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.

Quality Of Work

While a grade of D is considered passing in a subject, an overall average of C which corresponds to a grade point average of two must be maintained by the student if he expects to graduate. Pan American University has certain specific grade requirements also. For example, the student must maintain a C average

in his required freshman English; a D in English must be balanced by a B in English, not a B in another subject field. He must also make an average of C in both his major and minor fields.

Students who expect to be certified as teachers are required to have a grade point average of 2.25 in both the major and minor fields. This applies to applicants for the elementary certificate and to those planning to teach under a secondary certificate.

Calculation of Grade Point Average. An illustration of the method of calculating the grade point average follows:

Method of Calculating

Course	No.	Grade	Grade Points	Grade Points
English	1301	C	3 sem. hrs. × 2 pts. per hr. = 6	
Mathematics	1301	D	3 sem. hrs. × 1 pt. per hr. = 3	
History	2301	B	3 sem. hrs. × 3 pts. per hr. = 9	
Chemistry	1401	F	4 sem. hrs. × 0 pts. per hr. = 0	
Phys. Ed.	1101	A	1 sem. hr. × 4 pts. per hr. = 4	
Total Hrs.	14		Total grade points	22
			Total Grade Points	22
Grade point average =			$\frac{22}{14} = 1.57$	
			Total semester hrs. = 14	

Repeated Courses: When a course is repeated, only the last grade and hours earned are used to calculate the grade point average.

Exclusion of "F" grades seven or more years old: All "F" grades seven or more years old shall be excluded from grade point average computation.

Scholastic Probation and Suspension

- Scholastic probation or suspension will be determined annually on the basis of the student's cumulative grade point average. The term "grade point deficiency," as used here refers to the number of grade points less than twice the

total hours attempted with Drop and Drop Pass hours not counted. The student will be placed on probation for the spring semester if at the time of registration in January:

- His accumulated hours earned are 60 or less and his grade point deficiency is 12 or more; or
 - His accumulated hours earned are *more* than 60 hours and his grade point deficiency is six or more.
- During this semester of probation, the student must remove his excessive deficiency in grade points or be placed on a one year academic suspension in May.
 - A student on suspension may not enroll for the next two regular semesters.
 - A student on suspension may enroll for summer sessions to remove excess grade point deficiencies. This can be most efficiently accomplished by only enrolling for courses in which he has earned a low or failing grade.
 - A student on suspension who removes his excess grade point deficiency during the summer will be reinstated as a student in good standing upon applying to the Admissions office for reinstatement.
 - If a student who has been suspended for failure to meet scholastic probation requirements feels that unusual circumstances warrant a review of his case, he may direct a written appeal to the Committee on Admissions no later than one week prior to registration. Such a petition should detail his reasons for thinking the circumstances of his case warrant special consideration and should indicate valid reasons why the circumstances will not recur. The Committee will reinstate a suspended student, who has not served the period of suspension, only when it is convinced the best interests of both the University and the student will be served by such action.

Curricula and Degrees

Pan American University offers five types of undergraduate curricula: (1) those leading to one of the four Bachelor Degrees (B.B.A., B.F.A., B.A. or B.S.) conferred by Pan American Univer-

sity; (2) those leading to the Associate of Applied Science (A.A.S.) in Nursing Education; (3) those satisfying the requirements leading to degrees offered at other institutions, such as: curricula leading to the degrees in law, engineering, pharmacy, medicine, and other specialized fields; (4) courses satisfying requirements for a minor field; and, (5) courses meeting requirements for teachers in education.

The School of Business Administration awards the Bachelor of Arts (B.A.) degree in Economics and the Bachelor of Business Administration degree (B.B.A.) in eight areas of Business:

1. Accounting.
2. Business Education.
3. Economics.
4. General Business.
5. Latin-American Business.
6. Management.
7. Marketing.
8. Office Administration

The School of Education awards the Bachelor of Science (B.S.) degree:

1. The Bachelor of Science degree in Elementary Education, Health and Physical Education, and Health Education.
2. The School also offers curricula meeting the certification requirements for teaching in secondary schools.

The Division of Health Related Professions awards the Associate of Applied Science (A.A.S.) degree in Nursing Education and Bachelor of Science (B.S.) degree with majors in Human Services and Medical Technology.

The School of Humanities awards the Bachelor of Fine Arts (B.F.A.) with a major in Art Education and the Bachelor of Arts (B.A.) degree with majors in:

1. Art
2. Drama
3. English

4. Music
5. Spanish
6. Speech
7. Mass Communications

The School of Science and Mathematics awards the Bachelor of Science (B.S.) degree with majors in:

1. Biology
2. Chemistry
3. Mathematics
4. Physics
5. The School also offers curricula meeting the requirements for pre-engineering (two years), pre-dental (with a major in Biology or Chemistry), pre-dental (with a major in Biology or Chemistry), pre-pharmacy (two years), pre-medical (with a major in Biology or Chemistry for pre-professional work).

The School of Social Sciences awards the Bachelor of Science (B.S.) degree in Law Enforcement Science and the Bachelor of Arts (B.A.) degree with majors in:

1. Community Services
2. Government
3. History
4. Psychology
5. Sociology

Minors are offered in all the fields which offer majors and in addition, minors are offered in Computer Science, French, Geology, Mexican-American studies, and Philosophy.

Supporting courses in a variety of fields are available in the various departments including Astronomy, Engineering, Geography, German, Latin, and Portuguese.

General Requirements for a Bachelor's Degree

All course requirements for a bachelor's degree in any one of the several disciplines are formulated within the department in which the discipline falls, and are announced and listed elsewhere in this bulletin by the respective departments of the University. STUDENTS SHOULD CONTACT THEIR MAJOR DEPARTMENT OFFICE FOR FURTHER DETAILS. Required semester hours for which specific courses are not prescribed are listed as elective hours.

While the degree requirements in the various disciplines may differ to a considerable extent, there are several general requirements for a bachelor's degree which are common to all degree programs. These are:

1. English, 12 semester hours. Must include English 1301 and 1302, or English 1387 and 1388 (Honors Plan), or English 1405 and 1406 (for foreign students) and 6 hours of sophomore English. (NOTE: Credit for English 1301 is a prerequisite for English 1302, and a 2.00 grade point average in the required 1000-level English courses must be achieved before a student may enroll for any English course numbered 2000 or higher.)
2. History 2313 (or 2333) and 2314 (open to freshmen who enter with credit in American History from high school), or History 2387 and 2388 (Honors Plan).
3. Government 2313 and 2314 (not open to freshmen), or Government 2387 and 2388 (Honors Plan).
4. Twelve semester hours from two of the following: Mathematics, Foreign Language, Science (Astronomy, Biology, Chemistry, Geology, Physical Science or Physics). Departments may specify.
5. Physical Education, four semester hours of activity courses to be taken during the freshman and sophomore years. No more than one activity course may be taken during a semester. Only four semester hours of activity courses may be count-

ed toward graduation, except by P.E. majors, who may count a maximum of eight semester hours. (NOTE: A student who has been honorably discharged from the military service, and who has served a minimum of one year therein, may obtain a waiver of the required hours in physical education on the basis of one semester hour for each six months of military service or major fraction thereof. R.O.T.C. courses, but only those taken at the freshman and sophomore level, may be substituted for required hours of physical education on the basis of one R.O.T.C. credit for one credit of P.E. A student unable to participate in physical education activity courses because of a health or physical condition may obtain a waiver based upon a physician's certificate to that effect. A woman student who is a mother with her child or children in her care may obtain a waiver of required physical education hours. A student who is at least 25 years of age at time of initial admission, or at time of readmission after an absence from college of at least two years, may obtain a waiver from P.E. Any other student is required to take physical education activity courses after reaching age 25 ONLY TO THE EXTENT that he has failed to earn one P.E. credit during each semester of his freshman and sophomore year completed prior to reaching age 25. A waiver may be obtained by a transfer student on the same basis as though his work had been taken at this institution. Waivers must be requested by the student in each case, they are not automatic, and any student eligible for a waiver may instead enroll for physical education activity courses and receive credit toward graduation to the maximum extent provided. The waiver, when granted, simply absolves the requirement for the hours waived, but does not grant credit for them. Hours waived are thus converted to elective hours. Requests for waivers should be made to the Registrar.)

A minimum of 12 semester hours of free electives (not including P.E. activity courses) must be included in every bachelor's degree program.

Students seeking an associate degree are exempt from the foregoing requirements, but only to the extent approved by the School in which the degree is to be earned.

Graduation Requirements

As noted under the heading *Curricula and Degrees*, Pan American University offers four types of bachelor degrees. The general requirements for graduation are the same for each degree and are listed below. Associate degrees are exempt from these provisions to the extent approved by the School in which the degree is conferred. Specific requirements for each major field are listed in the catalog sections dealing with these majors. It is the responsibility of the student to be familiar with all the requirements for the degree he seeks.

1. A minimum of 124 semester hours of work is required, with an overall minimum grade point average of 2.00.
2. A minimum grade point average of 2.00 in the required hours for both the major and minor fields, or for the broad-field major, is required. Graduates who seek certification as elementary or secondary teachers must have a minimum grade point average of 2.25 in each case.
3. A minimum grade point average of 2.00 must be achieved in the two required freshman English courses (those specified under *General Requirements for a Bachelor's Degree*, above).
4. The completed course work required for the degree must include a minimum of 36 semester hours of advanced-level work.
5. All requirements listed under the heading *General Requirements for a Bachelors' Degree*, above, must have been met.
6. The work must include a minimum of 30 semester hours of work in a major field of concentration (a department may specify not more than 36 hours), including at least 15 hours of advanced-level work, and 18 semester hours in a minor field, including at least 6 semester hours of advanced-level work. A minimum of 48 semester hours of work in a broadly integrated area (such as Business Administration, Inter-American Studies, Law Enforcement Science, Music) may be substituted for the major and minor requirement. In such cases, at least 21 advanced hours must be included, and a department may specify not more than 60 total hours in the area.

7. For those seeking secondary teacher certification, a minimum of 24 semester hours is required in each of two teaching fields, except that a second teaching field is not required in the broadly integrated areas (see *major field departmental area Secondary Plan II* for the major and certification requirements).
8. The major-minor or broad-field major course distribution must follow the requirements set forth by the various departments, subject to any limitations and requirements noted under *General Requirements for a Bachelor's Degree* and these *Graduation Requirements*, or in published form issued by the various departments or schools of the University.
9. The student must complete a minimum of 24 semester hours of work in residence during the senior year. If he has not established credit in courses at Pan American University prior to his senior year, he must complete 30 semester hours in residence. A minimum of 6 semester hours of advanced work in the major must be completed in residence.
10. For Medical Technology majors the last 30 semester hours of college work must be completed at Pan American University; must include at least eight semester hours of biology or chemistry, and a minimum of six advanced semester hours.
11. A *Degree Plan* approved by the student's Department Head and Dean must be on file in the office of the Dean of his School. This requirement is normally to be accomplished as soon as possible after the close of the sophomore year, but in any event the Degree Plan must be on file before the deadline for making application for a degree.
12. An acceptable *Application for a Degree* must be filed by the student with the Registrar on or before the date specified in the University calendar.

Requirements for a Second Bachelor's Degree

To become eligible for a second bachelor's degree a student must earn a minimum of thirty additional semester hours, after receiving the first degree, including twelve hours of advanced

credit, and, in addition, he must meet all catalog requirements listed for the second degree. The twelve hours of advanced credit must be in a field different from that chosen as the major for the first bachelor's degree.

Since the major subject is not shown on the diploma, it is not possible for a student to receive a second Bachelor of Arts, Bachelor of Science, or Bachelor of Business Administration degree from Pan American University.

Requirements for the Associate of Applied Science Degree in Nursing Education

1. Satisfactory completion of the prescribed curriculum as specified in the bulletin.
2. A minimum of 74 semester hours of work is required with a minimum grade of "C" in each required course.
3. The student must meet the residence requirement of one regular semester.
4. The student must complete at least 15 semester hours at Pan American University.
5. Only nursing courses completed in programs approved by the Coordinating Board, Texas College and University System, and/or Texas Education Agency and Board of Nurse Examiners for the State of Texas will be considered for transfer credit.
6. Transfer credit for first year nursing courses may be granted upon approval of the Head of the Nursing Department and the Director, Division of Health Related Professions.
7. Transfer credit for second year nursing courses may be granted upon satisfactory completion of written and practicum challenge examinations and upon approval of the Head of the Nursing Department and the Director, Division of Health Related Professions.
8. A Degree Plan approved by the Head of the Nursing Department and the Director, Division of Health Related Professions must be on file in the Office of the Director. This

requirement is normally to be accomplished as soon as possible after the close of the freshman year, but in any event the Degree Plan must be on file before the deadline for making application for a degree.

9. An acceptable Application for Degree must be filed by the student with the Registrar on or before the date specified in the University calendar.

Degree Plan

In general, a student may follow the degree requirements listed in this catalog by the respective Departments of the University, thus planning his own schedule of courses. However, having a Degree Plan on file is a requirement for graduation, and a student is well advised to have the Degree Plan drawn up by his Department Head on the proper form as soon as possible after the close of the sophomore year, before any advanced courses are taken. This will preclude the possibility of taking courses which will not satisfy requirements for the degree which he seeks. This precaution is particularly appropriate in the case of transfer students and those who have changed their major.

Upon request, the Department Heads will aid students in preparing Degree Plans that may be required by institutions or agencies other than Pan American University. As an illustration, some public school systems require teachers who have not completed their degrees to file an approved Degree Plan in the superintendent's office.

Selection of Courses

The student should plan to satisfy during his freshman and sophomore years not only the *General Requirements for a Bachelor's Degree*, but any introductory or prerequisite courses in his major and minor field, as specified by the departments. Also, he must, unless excused by waiver, enroll in *one* activity course in physical education *each* semester until he has satisfied these required hours.

Although each of the Departments of the University lists many of the specific courses required in the major and minor areas, usually some choice of courses is permitted at the lower level, or at the advanced level, or at both levels. Choice is permitted when hours are specified as elective hours. While the departments may not specify more than 36 hours in the major field (60 hours in the broad-field major) nor more than 18 hours in the minor field, students may take additional hours of work in both the major and minor fields if they wish to use elective hours. The student should develop his own outline of courses which he is required to take, supplementing it with those courses he wishes to take in satisfaction of any elective hours allowed him by his department. Any deviation from courses required must be approved by his department head and by the Dean of his School, and must be incorporated into his Degree Plan. If deviations are made which subsequently are not approved, the student may find that these will merely add hours to his graduation requirements.

Many courses listed in the catalog are not offered every semester. This is particularly the case with upper-level courses. In planning his program the student should ascertain that there is a likelihood that a particular course will be offered during the semester he plans to take it. Further, he should determine that his planned sequence of courses provides that any prerequisite courses will be taken by the time the course for which they are prerequisite is scheduled to be taken. The same precaution is advised with reference to semester-hour (that is, class standing) prerequisites.

When a student enters this University with the expectation of subsequently transferring to another institution, he should be certain to obtain a copy of the catalog of that other institution and use it as a guide of courses for which he will register at Pan American University. It is his responsibility to check the requirements for his program, though a faculty advisor will be glad to help him interpret requirements of other colleges.

Students who plan to graduate from Pan American University should consult the catalog sections on: *General Requirements for a Bachelor's Degree*, *Graduation Requirements*, and the specific requirements and suggestions listed under their respective Schools and Departments to insure that all required work is satisfied. The Department Heads and Deans will be glad to help clarify matters about which the student may be uncertain.

It is expected that all beginning freshmen will meet with academic advisors prior to or at the time of actual registration and that they will be counseled concerning the best selection of courses. Deans and Department Heads are in their offices the week preceding registration for the purpose of advising students about course selections and schedules. Those above the freshman level who can do so are urged to seek advice during the year because of the difficulty of obtaining appointments the week before registration.

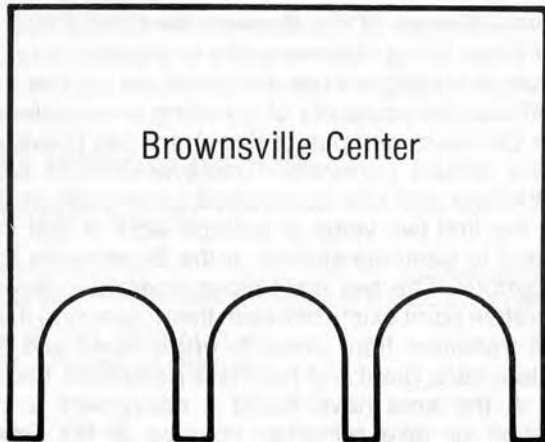
Summer Session

As a part of its regular program, the University offers a Summer Session consisting of two five and one-half week terms. Classes given in the summer are arranged to meet the requirements of students who need to do summer work and are selected on the basis of the requests made by those who are enrolled during the spring term.



The white, sandy beaches of Padre Island (above) are a year-around attraction for both young and old. A natural resaca surrounds Fort Brown (right) just south of Pan Am's Brownsville Center.





BROWNSVILLE CENTER

Dr. Ralph A. Penington, *Director*

The Brownsville Center is an upper-level and graduate branch of Pan American University located presently on the campus of Texas Southmost College in Brownsville, Texas. Authorized by the state legislature in the late Spring of 1973, the Brownsville Center was established during the summer and opened that Fall with an enrollment of 398 junior, senior, and graduate students. Freshman and sophomore classes are not offered.

Bachelor and master degree programs are offered in biology, education, English, history, and Spanish. In addition, bachelor degree programs are offered in accounting, government, law enforcement science, and management. Several certification and endorsement programs are available, as well, in the field of education, including elementary and secondary teaching certificates, teaching mentally retarded, early childhood teacher of exceptional children, language/learning disabilities, kindergarten, and elementary certification for bilingual/bicultural studies. All courses and programs offered are the same as for Pan American University at Edinburg and are described in the publications of that institution. It is anticipated that other programs will be added to the offerings as the Center grows.

The establishment of the Brownsville Center has made it possible for those living in Brownsville or elsewhere in Cameron County to pursue undergraduate and graduate studies more conveniently without the necessity of traveling a considerable distance to the Edinburg campus of Pan American University or to another more distant university. Texas Southmost College is a well-established and fully accredited junior college. Students completing the first two years of college work at that institution may now elect to continue studies at the Brownsville Center on the same campus. The two institutions operate independently, but a cooperative spirit exists between them, assuring the student of a smooth transition from lower to upper-level and graduate work. Also, teachers, plant and business personnel, housewives, and others in the area have found it convenient to continue their education or take refresher courses at the Brownsville

Center. Many courses are offered during the late afternoon and evening in order to accommodate those who work during the day.

Generally, to be admitted for undergraduate study at the Brownsville Center, a student must have completed sixty (60) semester hours of college work and must meet all other requirements for undergraduate admission to Pan American University set forth elsewhere in this publication. To be admitted for graduate study, a student must comply with all admission requirements of the Graduate School of Pan American University.

Students may enroll concurrently for classes at the Brownsville Center and on the Edinburg campus of Pan American University, and will be subject to only one set of tuition and fees for the combined hours taken. Also, students having certain lower-level course deficiencies in their degree programs may take those courses with Texas Southmost College and transfer the credit to Pan American University. Again, a student may enroll concurrently with both of these institutions, but in this case would be required to pay applicable tuition and fees to each institution.

Financial aid programs available on the Edinburg campus are also available at the Brownsville Center. Financial aid, academic, and Veterans Administration counseling services are provided at the Center. Registration for both semesters and both summer terms takes place at the Brownsville Center, and in addition, students may register at Edinburg for Brownsville Center courses, if desired. Only in exceptional cases of late applications for admission or other unusual circumstances would a Brownsville Center student be required to complete the admission and registration procedure on the Edinburg campus for Brownsville classes.

The Brownsville Center Calendar may differ some respects from that published for Pan American University. For example, the beginning or ending date for a semester may be different, registration dates usually will not coincide, and some vacation or recess periods may be scheduled at different times. In addition, the schedule of classes may differ due to the necessity of close coordination with Texas Southmost College in these matters. Students planning to attend the Brownsville Center should con-

sult the brochure published separately by the Center concerning calendar and class schedules. In most other respects the information contained in this publication applies equally to the Brownsville Center.

Applications for admission or any additional information may be obtained by writing to the Administrative Assistant to the Director, Brownsville Center, Pan American University 80 Fort Brown, Brownsville, Texas, 78520.

Academic Instructional Staff: Brownsville Center

- *ANDER, SUSAN G.Elementary Education
A.B., Douglass College; M.A., Patterson State, New Jersey; Ph.D., Texas Women's University.
- BINDER, NORMAN E.Government
B.A., University of North Dakota; M.A., University of Arizona.
- CLEARMAN, CHRIS E.Law Enforcement
B.A., University of Texas; M.A., Sam Houston State University.
- GARZA, ROBERTO J.Secondary Education
B.A., M.A., Texas Arts and Industries University.
- GAUSE, GEORGE R., JR.Library
B.A., Park College, Missouri; M.L.S., George Peabody College.
- GONZALEZ, ABLESecondary Education
B.S., M.A., Texas Arts and Industries University.
- HAYNIE, VIRGINIALibrary
B.A., University of Montevallo, Alabama; M.L.S., George Peabody College.
- HUTTO, EMMETTE R.Secondary Education
B.S., M.Ed., Sul Ross State University; Ed. D., North Texas State University.
- *KEARNEY, MILO E., JR.History
B.S., University of Texas; M.A., Ph.D., University of California at Berkeley.
- *KOSTOHRYZ, VERNON R.Elementary Education
B.S., M.Ed., & Ph.D., North Texas State University.

*On Graduate Faculty

- MARTIN, JOHN F.Business Administration
B.S., Southwest Texas State University; M.A., Western State College of Colorado.
- *MOLLAN, ROBERT W.Government
B.S., M.A., & Ph.D., University of Minnesota.
- *OLLIVIER-AMESTOY, LUIS L.Spanish
B.A., St. Mary's College of California; M.A., Middlebury College; Ph.D., University of New Mexico.
- *PENINGTON, RALPH A.Business Administration
B.S., University of Maryland; M.S., Ph.D., Purdue University.
- PEREZ, MARIA J.Elementary Education
B.S., Texas Arts and Industries University; M.Ed., Southeastern State College, Oklahoma.
- PERMENTER, VIVIAN K.Business Administration
B.S., East Central State College, Oklahoma; M.S., Oklahoma State University; CPS.
- *SCHRAER, MIMOSA S.English
B.A., Pan American University; M.A., Ph.D., Texas Tech University.
- *STOWE, WILMER C.Biology
B.S., M.S., Louisiana Tech University, Ph.D., Louisiana State University.
- THOMPSON, GEORGE D.Secondary Education
B.A., M.A., & Ph.D., Baylor University.
- WALTER, LOUIE W.Business Administration
B.S., M.S., University of Arkansas; Ph.D., University of Texas.

Adjunct Instructional Staff: Brownsville Center

- *AGUIRRE, REE W.Elementary Education
B.S., Sam Houston State University, M.Ed., Ed.D., University of Houston.
- ARMSTRONG, RONALD W.Business Law
J.D., University of Oklahoma.

*On Graduate Faculty

- BUCHANAN, ANN A.Music
B.Mus.Ed., M.Mus.Ed., North Texas State University.
- GARZA, IDOLINA A.Elementary Education
B.S. Texas Arts and Industries University; M.Ed., Sul Ross State University.
- GAVITO, EMMA C.Elementary Education
B.S., Incarnate Word College; M.Ed., Pan American University.
- GILBERT, MARC D.Business Administration
B.S., Kansas State Teachers College; M.S., University of Denver; Ed.D., University of Tulsa.
- GRATZ, ELIZABETHBusiness Administration
Ph.D., University of Iowa.
- ROSALES, LEONELElementary Education
M.Ed., Texas Arts and Industries University.
- ROSS, MARY FRANCESElementary Education
B.S., University of California at Berkeley; M.Ed., Pan American University.
- SPENCE, RAMONA J.English
B.A., Pan American University; M.A., Texas Tech University.

*On Graduate Faculty

The Continuing Education Program

L. A. Youngman, *Director*

The Center for Continuing Education offers courses designed to help explore new fields of study, to increase proficiency in a particular profession, to develop potential, or to enrich life through planned cultural and recreational studies. At this time, the most active offerings are in the area of credit-free courses mostly in the field of adult education. These courses are non-credit and there are no entrance requirements.

The program started in the Fall of 1973 with a total of four courses. In the Fall of 1974, the offerings included forty-one courses from many areas including art, hobbies, sports, recreation, language, science, and business.

Although academic credit is not given, students do receive continuing education units (CEU), which represent participation in the program. One CEU is offered for each ten hours of class participation. CEU are recognized by business and professional groups as a useful indicator of professional growth and study in specific areas. The number of CEU offered in the program also serves as an evaluating device for determining the success of the program and also for funding purposes.

Efforts are being made to obtain state financing for Continuing Education. A bill supporting such a program is expected to be presented to the legislature in the Spring of 1975. The program is self-supporting with student tuition taking care of all but administrative costs.

The courses offered are determined by community surveys or requests. The program opens its doors to the full community bringing adults and even some students back into the classroom after the regular academic day is over. In other words, Continuing Education offers a full range of social, educational, and recreational services designed to meet the needs of all the people it serves.

Residents of the community are requested to offer suggestions as to their needs. For a course to be offered, a minimum of ten students is required. Teachers are selected from the regular university faculty and experts from the non-academic community. Although these courses do not carry credit, some may be useful in preparing for credit by examination.

Beginning in the Fall of 1974, senior citizens (65 or over) may take many of the courses at one-half of the regular tuition. Persons who qualify must show proof of age.

For many years several departments have participated in a Continuing Education Program by offering seminars, etc. in their major fields of interest. The Center will work with each department in the promotion, presentation and expansion of such programs. Such needs not met by a department may be initiated

by the Center although it is desirable that each department actually operate this type of program.

Interested persons should contact: **Office of Continuing
Education**
Emilia Hall
Pan American University
Edinburg, Texas 78539

The Honors Studies Program

Dr. Bob R. Dowell, *Director*

Purpose of Program

The purpose of Honors Studies is to provide the capable and interested student a means of enriching his college education.

This purpose is achieved in two basic ways: (1) by offering special honors classes at the freshman and sophomore level, and (2) by providing an independent study program in the student's major or related field of study at the junior and senior level.

Honors Classes

Honors classes provide an ideal learning situation for the student. The classes are always small—20 students or less—and are attended by students with above average academic capabilities. The small class makes rapport between professor and student and between student and student a much easier matter, and both the small class and the homogeneous grouping greatly facilitate the intellectual exchange among class members. Such an atmosphere furnishes the student greater opportunity to function as an individual and the professor greater opportunity to utilize creative and innovative teaching techniques. Enrichment rather than acceleration is the main objective of honors classes.

Independent Study

Independent study furnishes the honors student an opportunity, while still an undergraduate, to work on a one-to-one basis with a professor.

At the beginning of the junior year each honors student begins exploring a topic of his own choice in his major or related area. This work is done under the supervision of a faculty member who possesses special expertise in the student's chosen area.

Admission Requirements

Any beginning freshman with a high school grade average of B+, or better, is eligible to participate in the program, as is any college student with at least a 3.0 G.P.A. To qualify for an honors scholarship and to graduate within the Honors Studies framework, the student must take a specified amount of honors work. See the sections below on scholarships and on curriculum for specifics.

Scholarships

Two types of honors scholarships are available—\$50 per semester scholarship and a \$125 per semester scholarship. A student remains on scholarship as long as he maintains a minimum 3.0 G.P.A. and takes the minimum honors requirements at his grade level.

Minimum honors requirements at the freshman and sophomore level are two honors classes each semester. A student must have completed either Honors Seminar 2387; Western Civilization or Honors Seminar 2388; Western Civilization by the end of his second semester of participation and both (they need not be taken in sequence) by the end of his third semester of participation.

Minimum honors requirements at the junior-senior level are participation in the appropriate Honors Seminar: HS 3187 or HS 3387 at the junior level and HS 4387 at the senior level.

Contact the Honors Studies office for scholarship applications.

Honors Studies Curriculum

In choosing honors classes at the freshman and sophomore level, the student should refer to the suggested curriculum under his major and select honors classes to substitute for regular classes whenever feasible to do so. For example, if the suggested curriculum for the major lists English 1301, 1302 and History 2313, 2314, the student may take the comparable honors English 1387, 1388 and honors History 2387, 2388. In the case of science, foreign language and mathematics, some majors require specific classes in these areas while other majors do not. If the suggested curriculum guide simply lists foreign language or science or mathematics but does not indicate a specific class, the student may wish to take one of the honors classes in these areas: Spanish 1387, 1388, Geology 1487, 1488 and Mathematics 2387, 2388. Since all majors allow at least 12 hours of electives, the student may wish to take an honors class as an elective. Following is a list of honors classes from which the student may choose. Those marked by an asterisk (*) are required courses in order to graduate in the Honors Studies framework.

Freshman Year

Art Appreciation 1387
Eng 1387, 1388
Hist 2387, 2388
*Honors Seminar 2387, 2388:
Western Civilization
Span 1387, 1388

Sophomore Year

Eng 2387, 2388
Geol 1487, 1488
Govt 2387, 2388
Psy 1387
Math 2387, 2388

Junior Year

Honors Seminar 3187:
Problems in Independent Study
*Honors Seminar 3387:
Independent Study

Senior Year

*Honors Seminar 4387:
Independent Study

Please note that there are three courses required for graduation in the Honors Studies framework. These three courses constitute the core of the Honors Studies Program. The purpose of requiring the two-part Western Civilization course is to give the student a broad overview of his intellectual heritage, thus better enabling him to assimilate and relate the knowledge gleaned from his other courses and studies.

Independent study required at the junior-senior level allows the student an opportunity to delve into a highly specialized area of knowledge of his own, thus giving him valuable experience as an independent scholar.

Graduating Within the Framework of Honors Studies

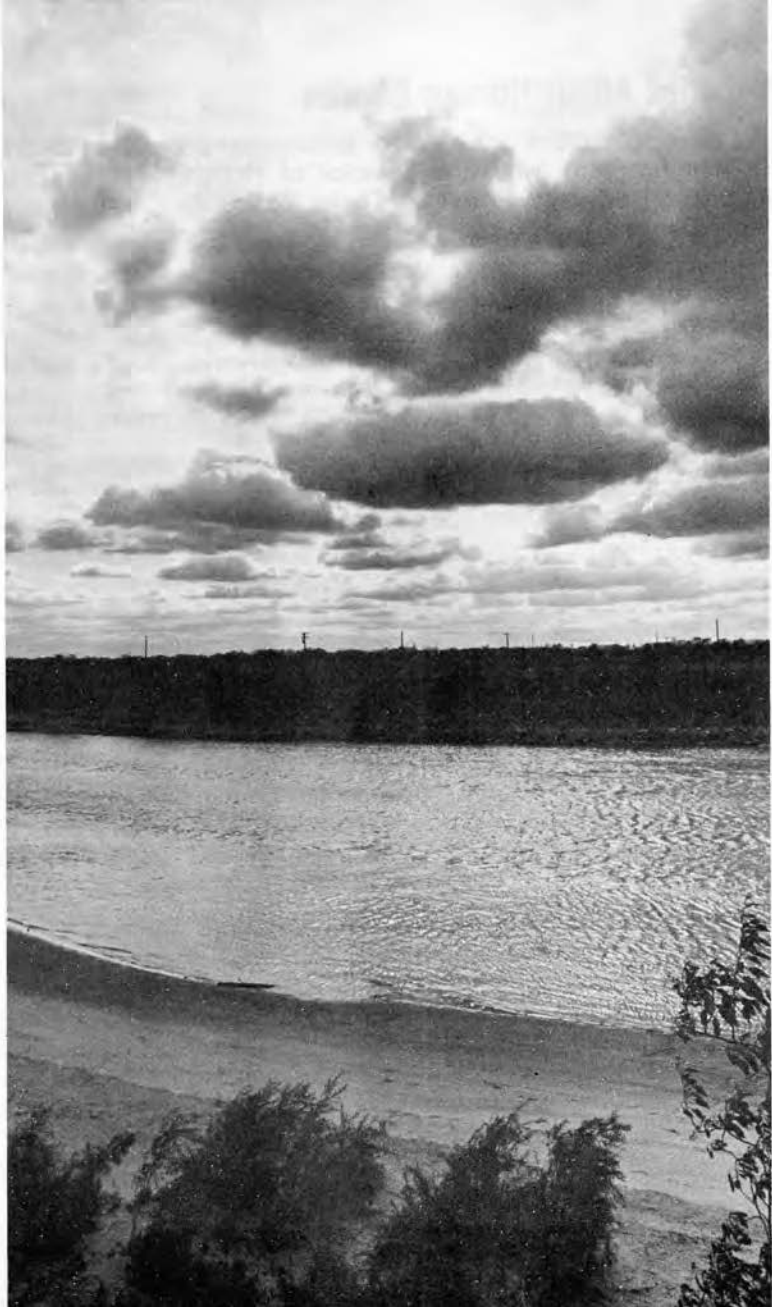
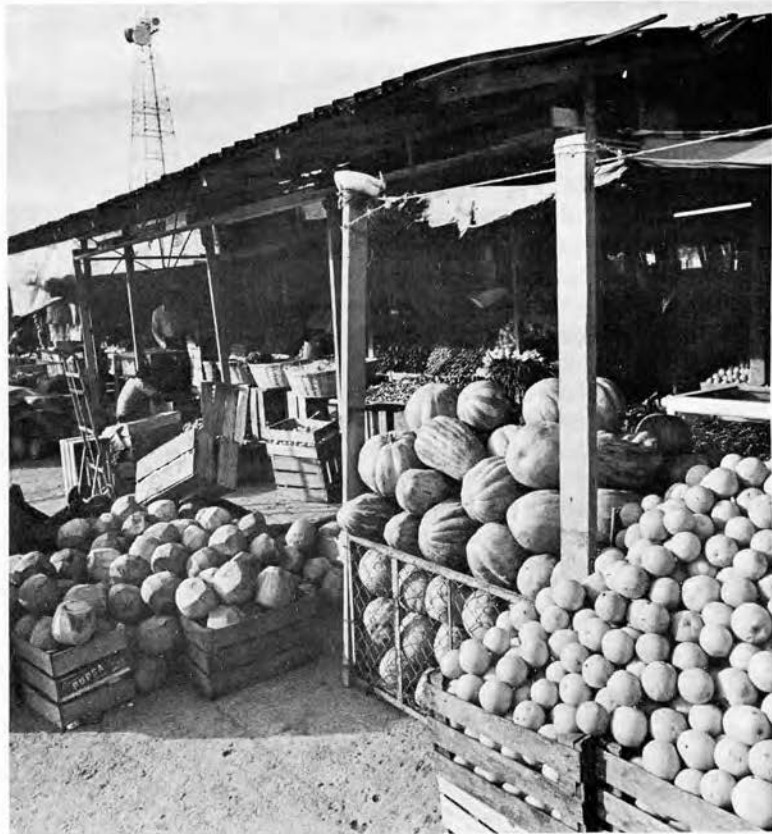
Any student who has completed the minimum Honors Studies requirements—Honors Seminar 2387, 2388: Western Civilization, Honors Seminar 3387: Independent Study, and Honors Seminar 4387: Independent Study—and who has an overall grade point average of at least 3.0 is eligible to graduate within the framework of Honors Studies.

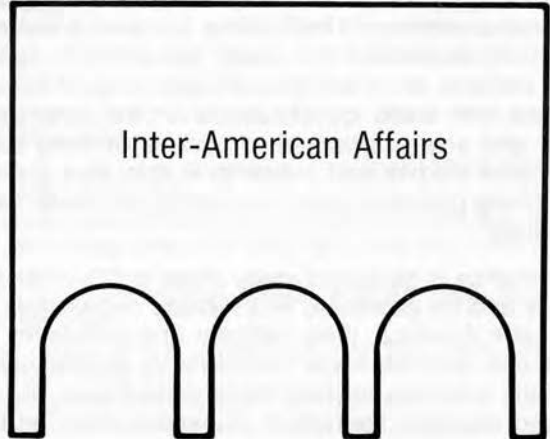
During the student's final semester a faculty committee questions the student over his independent study. Upon the findings of this committee, the rating of the independent study advisor, and the student's over-all grade point average, the Honors Council determines whether the honors student graduates with Honors, High Honors, or Highest Honors. Besides having the total Honors Studies achievement recorded on his transcript, the honors student receives special recognition at his graduation ceremony.

Inquiries About Honors Studies

For applications or for further information about the Honors Studies Program, write the Director of Honors Studies, Pan American University, Edinburg, Texas, 78539.

The produce market in Reynosa (below) is a beehive of buying and selling beginning at dawn each day. The Rio Grande River just downstream from Anzalduas Dam (right) is a popular area for boating, fishing and other water sports. The Plaza Square in Reynosa (far right) is a short drive from the Pan Am campus.





Division of Inter-American Affairs And International Education

Dr. Arnulfo S. Martinez, *Vice-President*

The Inter-American Affairs and International Education Division has the administrative status of a separate school. Under its coordination, two inter-disciplinary programs are offered: a Bachelor of Arts Degree in Inter-American Studies and a Bachelor of Business Administration in Latin American Business.

These majors are offered to provide students with a wide general background in the history, geography, economics, languages, and literature of Hispanic America and especially Mexico. Special emphasis will be placed upon achievement of sufficient knowledge of the Spanish language to make it an effective means of communications. This level of linguistic skill is essential to open the doors of cultural understanding and appreciation of Latin America to non-native speakers.

Opportunities for students completing the program are broad and varied. The growth in the volume of business and the number of firms operating in Latin America, together with the increased tensions of international relations, create a substantial demand for persons familiar with the Spanish language and Latin American customs and institutions. Local and national firms have repeatedly expressed this need. Government agencies—local, state, national and international—also require the services of employees with these qualifications. In the academic field the number and size of graduate programs offering advanced and specialized studies and research in this area are increasing yearly. These programs require qualified students, as well as capable faculty.

Latin America is geographically close to the United States, to which it is tied by economic and military necessities. Yet the people of Latin America, their national characteristics, hopes, and aspirations, and the major components of their civilization are practically unknown to most North Americans. The need to continue and expand intellectual communication and mutual

understanding with the Western Hemisphere, and with Mexico in particular, is of the utmost importance to the United States as well as to our neighbors to the South. Certainly the "need to know" about Latin America is apparent, and it is mainly in response to this need we offer these inter-disciplinary programs.

These inter-disciplinary programs involve the departments of Business Administration, Communications, Fine Arts, Foreign Languages and Social Studies.

These programs will prepare students to participate intelligently and effectively in business and government activities in Latin America, as well as equip graduates to work in Latin America or with Latin Americans in the United States upon completion of the degrees.

General Education Requirements for Bachelor Degree in Inter-American Studies: 124 total hours required for degree.

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Mathematics or Lab Science	3-4 hours
P.E. Activities	4 hours
Electives	12 hours
TOTAL	43-46 hours

Degree Requirements

Major in Inter-American Studies (without Teacher Certification):

This is an interdisciplinary area program requiring a 48-hour major with a minimum of 36 advanced hours out of the total 124 required for a degree. No minor required. The total program must include the following:

1. Twelve hours from History 2333, 3333, 3373, 4322, 4345, 4352, 4353, 4354, 4355, 4363, 4374;
2. Spanish 1301, 1302 or 1303, 1304; 2301, 2302; 4311 or 4312;

3. Government 3343 or 4383;
4. Nine hours from Spanish 3303, 3304, 3305, 3306, 4301, 4302, 4303, 4307;
5. Nine hours from Art 4352, B.A. 3336, B.A. 3355, Eco. 3353, Eng. 3316, Geog. 3333, Phil. 2353, Soc. 4323, Soc. 4343, Soc. 4363, Soc. 4373.

Major in Inter-American Studies (with Teacher Certification):

Students desiring to teach in the secondary school can be certified in the fields of History and Spanish. This is an interdisciplinary area program requiring a 48-hour major with a minimum of 54 advanced hours out of the total 124 required for a degree. No minor required. The total program must include the following:

1. Nine hours from History 3333, 3373, 4322, 4345, 4352, 4353, 4354, 4355, 4363, 4374;
2. Spanish 1301, 1302 or 1303, 1304 or six hours from 2303, 2305, 2306; or six hours of advanced Spanish electives; 2301, 2302; 4311 or 4312;
3. Government 3343 or 4383;
4. Nine hours from Spanish 3303, 3304, 3305, 3306, 4301, 4302, 4303, 4307;
5. Nine hours from Art 4352, B.A. 3336, B.A. 3355, Eco 3353, Eng. 3316, Geog. 3333, Phil 2353, Soc. 4323, Soc. 4343, Soc. 4363, Soc. 4373;
6. Three hours from History 3313, 3324, 3373, 4303, 4313, 4325, 4337, 4338, 4343;
7. Three hours from History 3320 (4323), 3321 (4324), 3341, 3342, 3363, 4371 (3371), 4376 (3374), 4383 (3383), 4393 (3393);
8. Nine hours from Education 3301, 3302, 3303, 3341, 3342, 4351, 4353;
9. Education 4352; 4651;
10. History 2333

Major in Latin American Business

See degree requirements outlined under School of Business Administration.

Suggested Curriculum

Inter-American Studies Major (With Certification)

Freshman Year

Eng 1301, 1302 or 1387, 1388;
or 1405, 1406
Hist 2313, 2314
P.E. 2 hours
Span 1301, 1302 or 1303, 1304 or
2301, 2302
Math or Lab Sci 3-4 hours
Suggested Electives (Soc 2313,
2323) 6 hours

Junior Year

Hist 2333
Hist 3 adv. hours¹
Span 6 adv. hours²
Inter-Am Studies elective 3 hours³
Inter-Am Studies elective 3 adv.
hours³
ED 9 hours⁴
ED 4352
Elective 3 hours

Sophomore Year

Eng (Soph Lit) 6 hours
Govt 2313, 2314
P.E. 2 hours
Span 2301, 2302 or 6 hours of
Inter-Am Studies Electives
Electives 9 hours

Senior Year

Hist 6 hours¹
Span 3 adv. hours²
Span 4311 or 4312
Govt 3343 or 4383
Inter-Am Studies elective 3 adv.
hours³
Hist 3 hours⁵
Hist 3 hours⁶
ED 4641 6 hours
Elective 3 hours

¹Advanced History must be chosen from Hist. 3333, 4322, 4345, 4352, 4353, 4355, 4363, 4374.

²Advanced Spanish must be chosen from Span. 3303, 3304, 3305, 3306, 4301, 4302, 4303, 4307.

³Inter-American Studies Electives are: Art 4352, B.A. 3336, B.A. 3355, Eco. 3353, Eng. 3316, Geog. 3333, Phil. 2353, Soc. 4323, Soc. 4343, Soc. 4363, Soc. 4373.

⁴Advanced Education must be chosen from Ed. 3301, 3302, 3303, 3341, 3342, 4351, 4353

⁵Advanced History must be chosen from Hist. 3313, 3324, 3373, 4303, 4313, 4325, 4337, 4338, 4343

⁶Advanced History must be chosen from Hist. 3320 (4323), 3321 (4324), 3341, 3342, 3363, 4371 (3371), 4376 (3374), 4383 (3383), 4393 (3393)

Inter-American Studies Major

(Without Certification)

Freshman Year

Eng 1301, 1302 or 1387, 1388;
or 1405, 1406
Hist 2313 or 2333, 2314
P.E. 2 hours
Span 1301, 1302 or 1303, 1304
or 2301, 2302
Math or Lab Sci 3-4 hours
Suggested Electives (Soc 2313,
2323) 6 hours

Junior Year

Hist 6 adv. hours¹
Span 6 adv. hours²
Inter-Am Studies elective 3 hours³
Inter-Am Studies elective 3 adv.
hours³
Electives 6 adv. hours
Electives 9 hours

Sophomore Year

Eng (Soph Lit) 6 hours
Govt 2313, 2314
P.E. 2 hours
Span 2301, 2302 or 6 hours of
Inter-Am Studies Electives
Electives 9 hours

Senior Year

Hist 6 hours¹
Span 3 adv. hours²
Span 4311 or 4383²
Govt 3343 or 4383
Inter-Am Studies elective 3 adv.
hours³
Electives 15 hours

¹Advanced History must be chosen from Hist. 3333, 4322, 4345, 4352, 4353, 4355, 4363, 4374.

²Advanced Spanish must be chosen from Span. 3303, 3304, 3305, 3306, 4301, 4302, 4303, 4307.

³Inter-American Studies Electives are: Art 4352, B.A. 3336, B.A. 3355, Eco. 3353, Eng. 3316, Geog. 3333, Phil. 2353, Soc. 4323, Soc. 4343, Soc. 4363, Soc. 4373.

Division of Health Related Professions

Julian Castillo, *Director*

The Division in cooperation with a number of health care facilities offers educational programs for individuals wishing to pursue a health related profession. Interdisciplinary courses in health related professions are offered to: (1) promote and provide understanding of the role of personnel involved in the delivery of health care, (2) focus on the team approach to patient care, and (3) introduce the student to the wide range of health careers available.

Curricula for all health related programs are structured to provide theory as well as clinical learning experience. In order to provide the proposed clinical practicum, the University negotiated affiliation agreements with a number of health service facilities in the tri-county area. With the assistance of the University of Texas Medical Branch Area Health Education Center Project, the University avails itself of clinical facilities outside the Lower Rio Grande Valley for learning experience in specialized areas which may be limited or not available in this area.

Academic Instructional Staff:

Division of Health Related Professions

CONNOR, KAREN L.Nursing Education
B.S.N., University of Colorado.

DIAZ, MARY I.Nursing Education
B.S., Texas Woman's University.

FOSSUM, PATRICIA ANNNursing Education
B.S., South Dakota State College.

HARRINGTON, REBECCADivision of H.R.P.
B.A., St. Mary's; M.S.W., University of Michigan.

HAYES, ELAINE E.Nursing Education
B.S., Louisiana College.

HINOJOSA, BLANCA R.Nursing Education
B.S., Incarnate Word College.

HUERTA, MARIA CAROLINANursing Education
B.S., Incarnate Word College.

LEFNER, JULIANA K.Nursing Education
B.S., Texas Woman's University.

MCCORMICK, EMILYNursing Education
B.S., University of Texas Nursing School.

RODRIGUEZ, WANZELL N.Nursing Education
B.S.N., Texas Christian University.

TORLINE, SANDRA K.Nursing Education
B.S., Texas Woman's University.

The Division of Health Related Professions offers an Associate of Applied Science Degree in Nursing Education, a Bachelor of Science Degree in Medical Technology and a Bachelor of Science Degree in Human Services.

General admission requirements conform with those of the University. Specific variations of requirements are stated with each program description.

Medical Technology

The Medical Technology curriculum is designed to enable the student, by means of formal instruction and clinical experiences, to perform medical laboratory procedures which aid the physician and pathologist in the diagnosis and treatment of disease in the hospitals, clinics, or research laboratories.

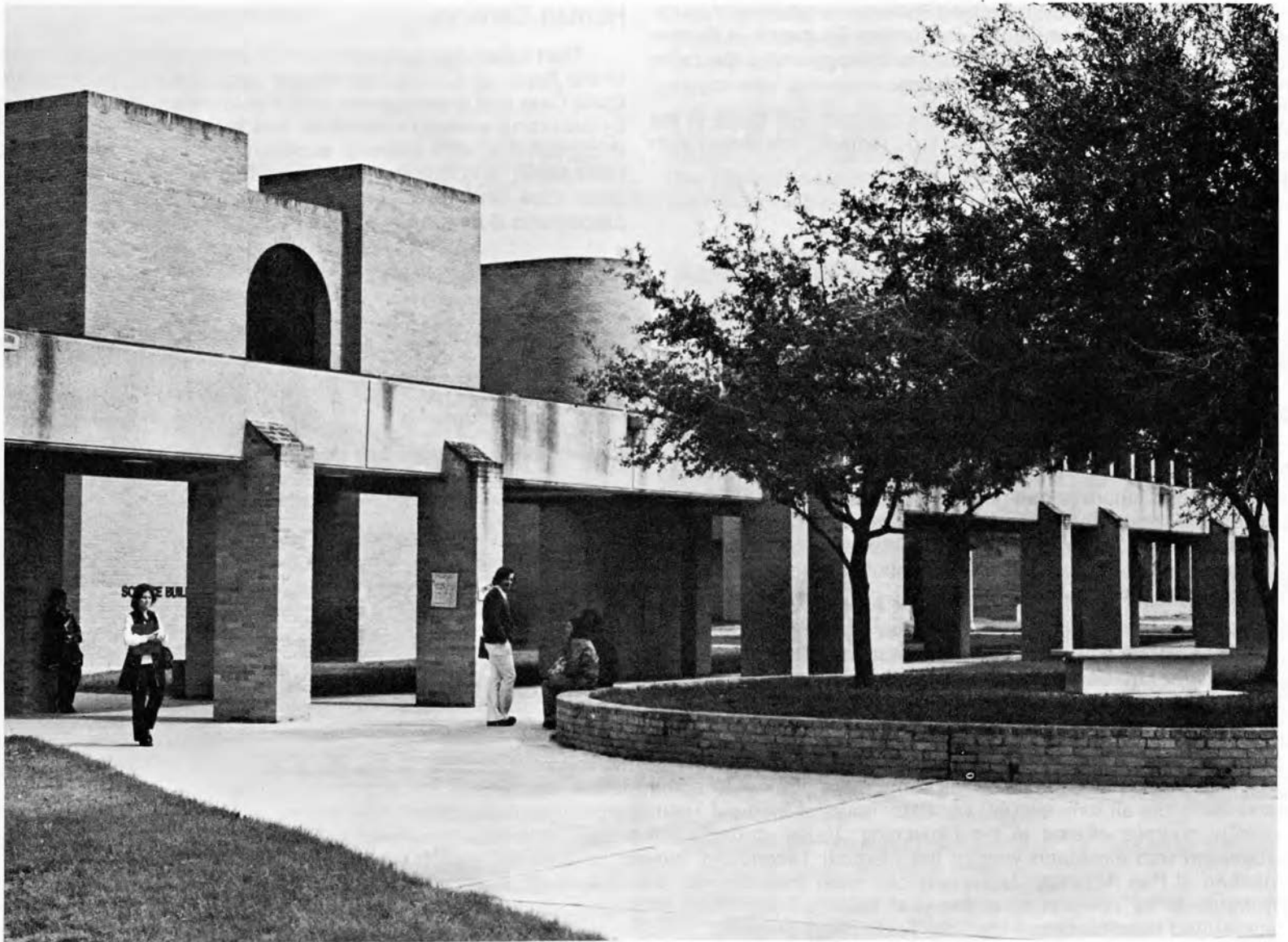
The curriculum is designed in accordance with curriculum essentials prescribed by the American Society of Clinical Pathologists; therefore, upon satisfactory completion of the courses, the graduate is eligible to write the national registry to become a registered medical technologist.

In order to be accepted into the senior year, professional medical technology curriculum, the student must make application to the Division of Health Related Professions. Applications should be made upon completion of sixty (60) semester hours of work. Selection of students is made by an Admissions Committee.

The proposed curriculum will require the student to enroll and complete all forty-six (46) semester hours of Medical Technology courses offered at the University. Those students not accepted into the fourth year of the Medical Technology curriculum at Pan American University can meet their degree requirements by completing a one-year training program in an accredited hospital-based Medical Technology program.

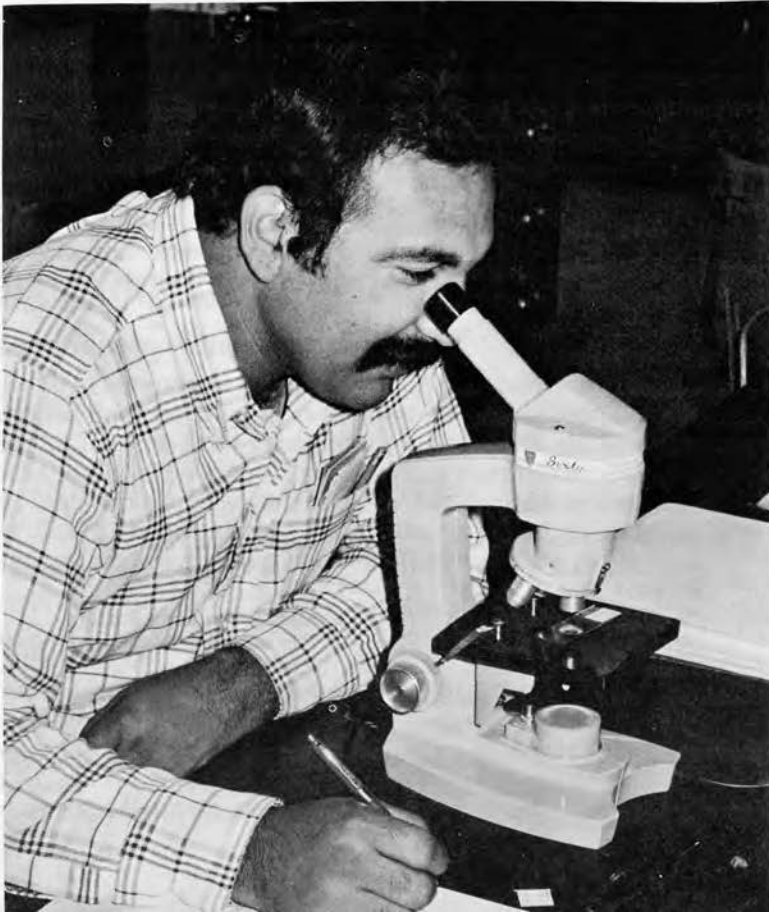
Human Services

The Human Services curriculum is designed to train students in the fields of Community Mental Health/Mental Retardation, Child Care and Development, and Mental Health Administration by providing a sound theoretical and technological foundation in conjunction with learning experiences through practice via institutional and community mental health/mental retardation, child care and development and human services program placements during each of their four years of study.

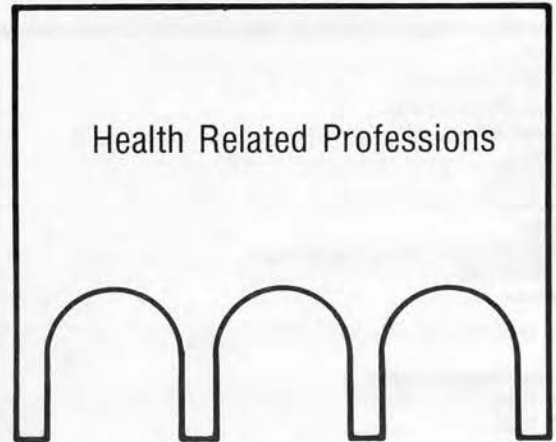


A student (below) utilizes the modern equipment in the biology laboratory.

The Science Building (left) was completed in 1969 at a cost of \$1.5 million and became the first building completed under the Phase One development program.



Health Related Professions



General Education Requirements for Bachelor of Science Degree in Medical Technology:

English (Freshman)	6 hours
English (Sophomore)	6 hours
Biology	23 hours
Chemistry	20 hours
Mathematics	3 hours
Government	6 hours
History	6 hours
Physics	8 hours
P.E. Activities	4 hours
Psychology	3 hours
Electives	12 hours

TOTAL 97 hours

Departmental Requirements:

HRP 1201	2 hours
HRP 1301	3 hours

Degree Requirements

Major in Medical Technology:

HRP 4301, 4303, 4302, 4420, 4430, 4410, 4431, 4421, 4412, 4304, 4332, 4313, 4222, 4214 (total hours: 46).

General Education Requirements for Bachelor of Science Degree in Human Services:

English (Freshman)	6 hours
English (Sophomore)	6 hours
Government	6 hours
History	6 hours
Psychology	12 hours
Sociology	6 hours
Biology	8 hours
Mathematics or Foreign Language	6 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL72 hours

Departmental Requirements:

HRP 1201	2 hours
HRP 1301	3 hours

Major in Human Services:

HS 1351, 1411, 1311, 2571, and ED 2301 (or 2581 and Psy 2324), 2572 (or 2282 and Psy 2335), 2322, 3231, 3222, 3611 (or 3791), 3612, and 14 hours of Electives (total hours: 56).

Suggested Curriculum

Medical Technology Major

Freshman Year

Eng 1301, 1302
 Bio 1401, 1402
 Chem 1401, 1402
 P.E. 2 hours
 HRP 1201, 1301
 Math 3 hours
 Elective 3 hours

Junior Year

Govt 2313, 2314
 Eng (Soph Lit) 6 hours
 Bio 3401, 3403
 Chem 3401, 3403
 Electives 6 hours

Sophomore Year

Hist 2313, 2314
 Phys 1401, 1402 or 1405, 1406
 Bio 2402 or 2403, 3402
 Chem 2401
 Phys 2313
 P.E. 2 hours
 Elective 3 hours

Senior Year

HRP 4301, 4303, 4302, 4430,
 4420, 4410, 4431, 4421, 4412,
 4304, 4432, 4313, 4222, 4214

Human Services Major

Freshman Year

Eng 1301, 1302
 Bio 1401, 2403
 Psy 2313, 2323
 HS 1351, 1411, 1311
 HRP 1201, 1301
 P.E. activities 2 hours

Sophomore Year

Eng 2309 and Soph Lit 3 hours
 Soc 2313
 Math or For Lang 6 hours
 P.E. activities 2 hours
 Psy 3333
 HS 2322
 HS 2571¹ and ED 2301 (or HS 2581² and Psy 2324)
 HS 2572¹ (or Psy 2335 and HS 2282²)
 HS 3231, 3222, and 3791³

Junior Year

Hist 2313, 2314
HS 3611 or 3791
Govt 2313, 2314
Soc 2323
HS 3231, 3612 and 3222

Senior Year

HS Electives 14 hours⁴
Psy 4313
Electives 12 hours

¹Students concentrating in Community Mental Health/Mental Retardation and Mental Health Administration must complete in their sophomore year.

²Students concentrating in Child Care and Development must complete in their sophomore year.

³Students who wish to enter the occupational area of Human Services/Mental Health-Mental Retardation as Human Services workers at the end of two years at Pan American University must complete during their sophomore year.

⁴Required Human Services Electives (Select one sequence):

- a. Community Processes for Mental Health I & II (HS 4711 and 4712).
- b. Community Mental Health Administration I & II (HS 4721 and 4722).
- c. Child Care Specialist -Institutions and Community- (HS 4731 and 4732).

Department of Nursing Education

Mary Frances Patterson, Acting Head

The Department of Nursing Education offers an Associate of Applied Science Degree in Nursing. After successfully completing the two-calendar-year program, the graduate is eligible to make application to the State Board of Nurse Examiners to write the State Board of Examinations. After successfully completing the Board examinations, the graduate is issued a license to practice as a registered nurse (RN) in the State of Texas.

Philosophy

The primary purpose of the Associate Degree Nursing Program is to prepare candidates to assume responsible roles as members of a health care team in the Lower Rio Grande Valley of Texas. The basic belief on which the program is based is that adequate health care should be available to all who need it.

This ADN program is specifically designed to provide initial levels of skills, knowledges, and sensitivities that will enable graduates to enter the nursing profession at a functioning level. The two basic areas of emphasis are:

1. To provide the technical and human relations preparation necessary for a student to successfully embark on the lifelong process of becoming a nurse.
2. To provide the student with the knowledges, skills, and sensitivities required by the Board of Nurse Examiners for the State of Texas for licensure as a registered nurse.

Objectives

A graduate of our ADN Program should be able to use principles from an ever-expanding body of knowledge to:

- (1) Function as a participant on the health team and as a participant and leader on the nursing team, knowing the ethical and legal responsibilities involved.
- (2) Understand the patient as an individual and as a member of a family, a community, and society;
- (3) Assess the nursing needs of an individual;
- (4) Select appropriate strategies to meet the nursing needs of an individual;
- (5) Perform nursing and therapeutic measures with beginning skill and have the potential to become highly skilled;
- (6) Assist the patient in meeting his health needs when his ability to do so is impaired.
- (7) Evaluate the psycho-physical reactions of an individual to nursing care;
- (8) Observe and report the reaction of an individual to other therapies; and
- (9) Practice and teach prevention of disease and principles of wellness.

Requirements for Admission

The Admissions Committee of the Department of Nursing Education will evaluate each application. The following must be completed by April 15 in order for a student to be considered for June admission:

1. Meet the requirements for admission to Pan American University.
2. Provide the Department of Nursing with copies of all documents submitted to the Office of the Dean of Admissions.
3. Be interviewed, by appointment, by a member of the faculty of the Department of Nursing at which time the remaining requirements will be explained.

In order to enroll in N. Ed. 1601, students must:

1. Pass English 1301 and Biology 1401 (with a grade of "C" or above).
2. Make arrangements for uniforms and student nurse liability insurance through the Department of Nursing.
3. Have a Medical History form completed by their physician and a skin test or X-ray for tuberculosis. An X-ray will be required if the skin test is reactive.

Students requesting readmission into a nursing course or requesting transfer into the program must follow the same admission procedure. The Admissions Committee in the Department of Nursing will notify each student of their admission status two weeks prior to the beginning of the course requested.

General Education Requirements for an Associate of Applied Science Degree in Nursing: 72 total hours required for degree.

English 1210, 1301, and 2309 .....	.8 hours
Government 2313 (2314) .....	.3 hours
Lab Science (Biol 1401, 2403) .....	.8 hours
Humanities (Psy 1313; 2335 and 2336; Soc 1313) .....	.12 hours
Math 1316 .....	.3 hours
P.E. Activities .....	.2 hours
<hr/>	
TOTAL .....	.36 hours

Requirements for the Associate of Applied Science Degree in Nursing Education

1. Satisfactory completion of the prescribed curriculum as specified in the bulletin.
2. A minimum of 72 semester hours of work is required with a minimum grade of "C" in each required course.
3. The student must meet the residence requirement of one regular semester.
4. The student must complete at least 15 semester hours at Pan American University, at least nine of which must be Nursing Education Courses.
5. Only nursing courses completed in programs approved by the Coordinating Board, Texas College and University System, and/or Texas Education Agency and Board of Nurse Examiners for the State of Texas will be considered for transfer credit.
6. Transfer credit for first and second year nursing courses may be granted upon approval of the Head of the Nursing Department and the Director, Division of Health Related Professions.
7. Each student in the nursing program is required to take NLN Achievement Tests, at their own expense, at the scheduled time.
8. A Degree Plan approved by the Head of the Nursing Department and the Director, Division of Health Related Professions must be on file in the Office of the Director. This requirement is normally to be accomplished as soon as possible after the close of the freshman year, but in any event the Degree Plan must be on file before the deadline for making application for a degree.
9. An acceptable Application for Degree must be filed by the student with the Registrar on or before the date specified in the University calendar.

Suggested Curriculum

Nursing Major

Freshman Year

(Summer Semester)

Eng 1301

Biol 1401

Eng 1210

(Fall Semester)

N.Ed. 1601

Biol 2403

Math 1316

Psy 1313

(Spring Semester)

N.Ed. 1702

Psy 2335

Eng 2309

Sophomore Year

(Summer Semester)

N.Ed. 2603

(Fall Semester)

N.Ed. 2804

P.E. 1 hour

Psy 2336

Soc 1313

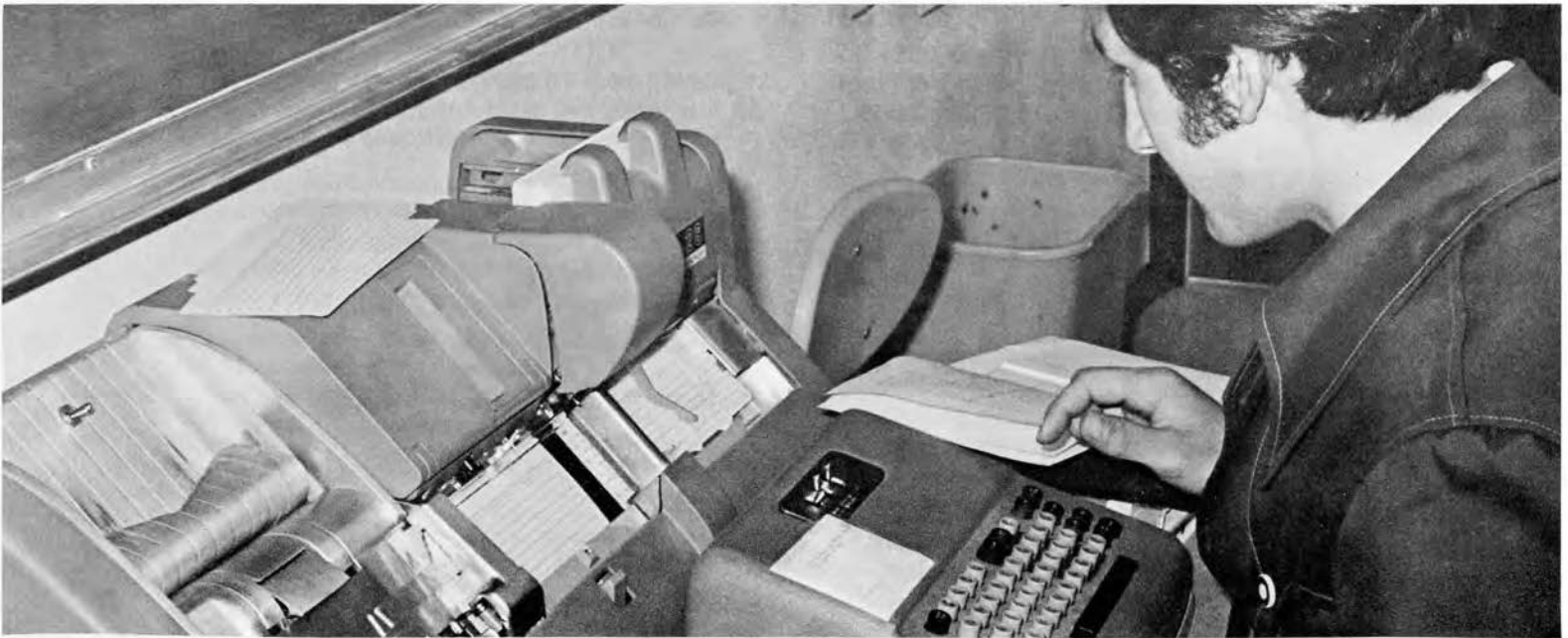
(Spring Semester)

N.Ed. 2905

P.E. 1 hour

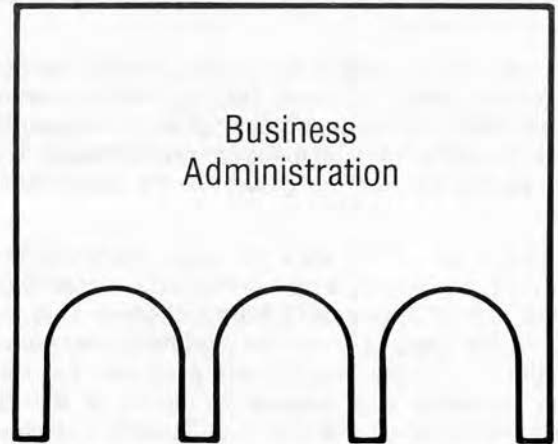
Govt 2313 or 2314

Computer equipment in use for business courses (below) offered at Pan Am. The newly remodeled and enlarged library (right) has a seating capacity for 520 students. The Education Building (far right) was the last building to be completed under Phase One of Pan Am's multi-million dollar construction program.





Business
Administration



The School of Business Administration

Dr. Robert N. McMichael, *Dean*

While the primary emphasis of the School of Business Administration is to provide professional training in the dynamic fields of business administration, it is organized to provide for the teaching, research and service needs of the public it serves. Pan American University exists at an interface of cultures and economies which influence the programs and activities of the School of Business Administration.

Business managers must be trained to function in a complex environment involving sometimes conflicting relations between public and private interests. The School of Business Administration must provide its students with a foundation which will allow them to cope with the demands of business and society, while recognizing the unique environmental characteristics of the institution.

The continuing needs of business persons for counseling and special programs must also be dealt with by an institution which responds to the demands of its publics. Research to learn more of the characteristics of the local environment, to deal with its problems and to promote growth in the area must also be conducted.

The completion of the new business administration building in early 1975 provides a new dimension in learning environment for the School of Business Administration. This new physical facility is designed to maximize student-student and student-faculty interaction in the instructional program. Facilities to enhance the research and service functions of the School of Business Administration are also significantly improved.

Academic Instructional Staff: School of Business Administration

- *BALDWIN, EDWARD F.
B.B.A., M.B.A., University of Texas; Ph.D., University of Houston.
- BARTLEY, DOUGLAS
B.S., University of Illinois; M.A., University of Pittsburgh.
- *BROUGH, ROYCE
B.S., Stephen F. Austin College; M.S., Texas Agricultural and Mechanical University, C.P.A.
- BUITENBOS, CLARA
B.S., Southern State, Springfield, South Dakota; M.Ed., University of South Dakota.
- CHOATE, DANNY
B.A., University of Texas at Arlington; M.A., University of Oklahoma.
- CREWS, RAYMOND M.
B.B.A., M.A., University of Oklahoma.
- DE HARO, RAFAEL
B.A., North Texas State University; L.L.B., Southern Methodist University Law School; M.A., Southern Methodist University.
- *FLORES, ROY
B.A., M.S., Indiana State University; Ph.D., Iowa State University.
- *GRATZ, JERRE
B.S., University of Pennsylvania, M.Ed., Pennsylvania State University; Ed.D., University of Houston.
- HARDY, LLOYD L., JR.
B.S., M.S., Texas Arts and Industries University.
- *HERBERT, MARY MARGARET
B.A., Dominican College; M.Ed., Ed.D., University of Houston.
- KAUFMAN, ALFRED L.
B.B.A., M.B.A., University of Texas.
- McMICHAEL, ROBERT N.
B.S., Louisiana Polytechnic Institute; M.B.A., Ph.D., Louisiana State University.

- PELPHREY, STEPHEN W.
 B.S., B.A., University of Arkansas; M.B.A., University of Pennsylvania.
- *On Graduate Faculty.
- *RUSH, CARL H., JR.
 B.S., M.A., Wayne University; Ph.D. Ohio State University.
- RYDL, LESTER
 B.A., Pan American College; M.S., Texas Arts and Industries University.
- SELLARS, RONALD K.
 B.A., University of Texas; M.A., Texas Arts and Industries University.
- *SLACUM, DONALD S.
 B.B.A., University of Oklahoma; M.B.A., D.B.A., Mississippi State University.
- *STRONG, CHARLES
 B.S., M.S., Oklahoma State University; Ph.D., University of Alabama.
- TREVINO, BRUNO
 B.A., M.A., University of Texas.
- VILLAR, EDNA
 B.A., M.B.A., University of Texas at Austin.
- *VINCENT, VERN C.
 B.S., West Texas State; M.S., Washington State; Ph.D., University of Northern Colorado.
- *WILSON, JAMES M.
 B.B.A., M.B.A., West Texas State University; Ph.D., University of Arkansas.
- YUNDT, CHARLES
 A.B., M.B.A., University of Chicago.

*On Graduate Faculty.

Division of Counseling and Placement

Dr. Roy Flores, Director

The function of the Division of Counseling and Placement is to provide counseling and job placement services for students in the School of Business Administration. Counseling for all students is coordinated through the director's office. All students must have a degree plan on file prior to making application for degree plan with the director's office upon completion of the sophomore year.

The job placement activities of the Division of Counseling and Placement are coordinated with the University Placement office. Students are aided in career selection and made aware of opportunities for employment. The Division of Counseling and Placement also serves as a liaison between the students and faculty.

Bureau of Business and Economic Research

Dr. Carl Rush, Director

The Bureau of Business and Economic Research is the research arm of the School of Business Administration, and has the objective of providing an environment within which faculty, students, governmental agencies, and business firms can interact to solve problems of mutual interest. The bureau supplies specialized source materials, research-oriented personnel and physical facilities to encourage and support research activities. Research projects under contract with business firms and governmental agencies are undertaken by the bureau.

Division of Programs

Edna B. Villar, Director

The School of Business Administration offers a variety of programs for the continuing education and special training of business persons, governmental agency employees and the general public. These programs are coordinated through the Division of Programs. The primary thrust of programs offered in the School of Business Administration is to develop the entrepreneurial abilities of business-persons in this area. Special programs are offered on demand, however, to meet the particular needs of local interest groups.

Division of Instruction and Administration

Dr. Edward F. Baldwin, Director

This unit is responsible for the instructional program of the School of Business Administration. Its function is to provide for the faculty, facilities and curricula to carry out the teaching mission of the School of Business Administration through the academic degree programs and courses offered.

The School of Business Administration awards two degrees—the Bachelor of Business Administration, with seven major options, and the Bachelor of Arts, with a major in Economics. The School also offers minors in Business Administration, Computer Science, and Economics. Teacher certification is offered in two plans—Plan I providing for a minor or second teaching field, and Plan II which is a broad field teaching area in Business with no minor.

The Bachelor of Business Administration Degree

The B.B.A. degree programs include general education, a business administration core, and professional specialization and electives. The general education requirements provide a sound foundation in the liberal arts, while the business core provides broadly integrated work in all areas of business, its institutions, functions, processes and environment, as well as training in the use of analytical techniques. The specialization and professional electives allow the student greater concentration in the area of his professional interest.

The major options offered include Accounting, Business Education, Economics, General Business, Latin American Business, Management, Marketing, and Office Administration. The curricula for all B.B.A. plans include 130 semester hours of credit. No minor is required, due to the broad field nature of the degree programs.

While all of the B.B.A. programs are aimed primarily at the education of students for professional business management, some of the programs are also designed to meet particular requirements such as preparation for the C.P.A. examination in Accounting and for teacher certification in Business Education.

General Education Requirements:

All candidates for the B.B.A. degree, in addition to fulfilling all requirements for any degree at Pan American University, must complete General Education requirements 1 and 2A or 2B, or 2C, according to major, plus the common Business Adminis-

tration core, and a major option, for a total of 130 semester hours, as specified below.

General Education (76 hours for Business Education, 79 hours for Latin American Business, 70 hours for all other BBA majors)

1. Required for all BBA Degrees;

Economics 2351, 2352	6 hours
English 1301, 1302	6 hours
Sophomore English (Eng 2309 & 3 additional hours)	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Math 1304, 2303 or 1318, 1319	6 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL 52 hours

2.A. Required for all BBA Degrees EXCEPT Business Education and Latin American Business:

Computer Science 1309	3 hours
Foreign Language or Lab Science	6-8 hours
Psychology or Sociology	6 hours
Speech 1302	3 hours

TOTAL 18-20 hours

B. Required for Business Education:

Education 4352, 4641, and 9 hours from 3301, 3302, 3303, 3341, 3342, 4351, 4353 ...	18 hours
Spanish	6 hours

TOTAL 24 hours

C. Required for Latin American Business:

Computer Science 1309	3 hours
Spanish 2301, 2302, 3303 and 3304	12 hours
Social Science electives (of Latin Amer. content) ..	9 hours
Speech 1302	3 hours

TOTAL 27 hours

Degree Requirements

Business Administration Core (33 hours required for all BBA degrees)

ACC 2321, 2322; BA 1331, 3335, 3337 or 3356, 3341, 3361, 3371, 3383, 4332, 4369.

Major Options

Required for a major in Accounting:

27 semester hours in the School of Business Administration including ACC 3321, 3322, 3323, 3324, 4321, 4324; BA 3342.

Required for a major in Business Education:

21 semester hours in the School of Business Administration, of which 9 must be advanced, including BA 3315; OA 1202, 1203, 1306, 3312, OA 1307 or CS 1309.

Required for a major in Economics:

27 semester hours in the School of Business Administration including BA 3342, ECO 3351, 3354, 4359 and 6 hours Economics electives.

Required for a major in General Business:

27 semester hours in the School of Business Administration including BA 3342, 4378; ECO 3354, 3351 or 3381.

Required for a major in Latin American Business:

18 semester hours including BA 3342, 4367; ECO 3336, 3351 or 3381, 3353, 3355.

Required for a major in Management:

27 semester hours in the School of Business Administration including BA 3342, 3362, 3363; ECO 3351 or 3381, 4354.

Required for a major in Marketing:

27 semester hours in the School of Business Administration including BA 3342, 3375, 3377, 4378; ECO 3351 or 3381.

Required for a major in Office Administration:

27 semester hours in the School of Business Administration, of which 12 must be advanced, including BA 3362; CS 1301, OA 1202, 1203, 3312.

Suggested Curricula

BBA in Accounting

Freshman Year
BA 1331
Eng 1301, 1302
CS 1309

Sophomore Year
ACC 2321, 2322
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours

Math 1304
For Lang or Lab Sci 6-8 hours
Hist 2313 or 2333, 2314
Spee 1302
P.E. activities 2 hours

Junior Year

ACC 3321, 3322, 3323, 3324
BA 3341, 3342, 3361, 3371,
3383
Electives 6 hours¹

Govt 2313, 2314
Math 2303
Behavioral Sci electives: Psy,
Soc 6 hours
P.E. activities 2 hours

Senior Year

ACC 4321, 4324
BA 3335, 3337 or 3356, 4332,
4369
Electives 12 hours¹

¹Six hours must be in the School of Business Administration.

BBA in Business Education

Freshman Year

BA 1331
Eng 1301, 1302
Hist 2313 or 2333, 2314
Math 1304
OA 1202, 1203, 1306
OA 1307 or CS 1309
P.E. activities 2 hours
Electives 3 hours¹

Sophomore Year

ACC 2321, 2322
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Govt 2313, 2314
Math 2303
P.E. activities 2 hours
Electives 3 hours¹

Junior Year

BA 3315, 3335, 3341, 3361, 3371
OA 3312
Ed 9 hours²
Span 6 hours

Senior Year

BA 3337 or 3356, 3383, 4332, 4369
Ed 4352, 4641
Electives 11 hours¹

¹Must include 5 hours in the School of Business Administration.

²Selected from Ed 3301, 3302, 3303, 3341, 3343, 4351, 4353.

BBA in Economics

Freshman Year

BA 1331
Eng 1301, 1302
CS 1309
Math 1304
For Lang or Lab Sci 6-8 hours
Hist 2313 or 2333, 2314
Spee 1302
P.E. activities 2 hours

Sophomore Year

ACC 2321, 2322
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Govt 2313, 2314
Math 2303
Behavioral Sci electives: Psy,
Soc 6 hours
P.E. activities 2 hours

Junior Year

BA 3341, 3342, 3361, 3371, 3383
ECO 3351, 3354 plus 3 adv. hours
Electives 9 hours¹

Senior Year

BA 3335, 3337 or 3356, 4332,
4369
ECO 4359 plus 3 additional hours
Electives 12 hours¹

BBA in Management

Freshman Year

BA 1331
Eng 1301, 1302
Math 1304
CS 1309
Hist 2313 or 2333, 2314
For Lang or Lab Sci 6-8 hours
Spee 1302
P.E. activities 2 hours

Junior Year

BA 3335, 3337 or 3356, 3341
3342, 3361, 3371
ECO 3381 or 3351
Electives 9 hours¹

Sophomore Year

ACC 2321, 2322
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Govt 2313, 2314
Math 2303
Behavioral Sci electives: Psy,
Soc 6 hours
P.E. activities 2 hours

Senior Year

BA 3362, 3363, 3383, 4332, 4369
ECO 4354
Electives 15 hours¹

¹Nine hours must be from the School of Business Administration.

BBA in General Business

Freshman Year

BA 1331
Eng 1301, 1302
CS 1309
Math 1304
For Lang or Lab Sci 6-8 hours
Hist 2313 or 2333, 2314
Spee 1302
P.E. activities 2 hours

Sophomore Year

ACC 2321, 2322
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Govt 2313, 2314
Math 2303
Behavioral Sci electives: Psy,
Soc 6 hours
P.E. activities 2 hours

Junior Year

BA 3341, 3342, 3361, 3371, 3383
ECO 3354, 3351 or 3381
Electives 12 hours¹

Senior Year

BA 3335, 3337 or 3356, 4332,
4369, 4378
Electives 15 hours¹

¹Twelve hours must be in the School of Business Administration.

BBA in Marketing

Freshman Year

BA 1331
Eng 1301, 1302
Math 1304
CS 1309
For Lang or Lab Sci 6-8 hours
Hist 2313 or 2333, 2314
Spee 1302
P.E. activities 2 hours

Sophomore Year

ACC 2321, 2322
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Govt 2313, 2314
Math 2303
Behavioral Sci electives: Psy,
Soc 6 hours
P.E. activities 2 hours

Junior Year

BA 3335, 3337 or 3356, 3341,
3342, 3361, 3371, 3375
Electives 9 hours¹

Senior Year

BA 3377, 3383, 4332, 4369, 4378
ECO 3351 or 3381
Electives 15 hours¹

¹Fifteen hours must be from the School of Business Administration.

BBA in Latin American Business

Freshman Year

BA 1331
Eng 1301, 1302
Math 1304
CS 1309
Hist 2313 or 2333, 2314
Spee 1302
Electives 6 hours
P.E. activities 2 hours

Sophomore Year

ACC 2321, 2322
Eco 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Govt 2313, 2314
Math 2303
Span 2301, 2302
P.E. activities 2 hours

Junior Year

BA 3335, 3337 or 3356, 3341
3342, 3361, 3371
ECO 3356, 3351 or 3381
Span 3303, 3304

Senior Year

BA 3383, 4332, 4367, 4369
ECO 3353, 3355
Social Science electives
(must be of Latin Amer.
content) 9 hours
Electives 6 hours

¹Twelve hours must be in the School of Business Administration.

BBA in Office Administration

Freshman Year

OA 1202, 1203
BA 1331
Eng 1301, 1302
Math 1304
CS 1301
For Lang or Lab Sci 6-8 hours
Electives 6 hours
P.E. activities 2 hours

Sophomore Year

ACC 2321, 2322
Math 2303
CS 1309
ECO 2351, 2352
Eng 2309 plus Soph Eng 3 hours
Hist 2313 or 2333, 2314
P.E. activities 2 hours

Junior Year
 BA 3335, 3337 or 3356, 3341, 3361
 OA 3312
 Govt 2313, 2314
 Spee 1302
 Behavioral Sci electives: Psy, Soc 6 hours
 Electives 3 hours¹

Senior Year
 BA 3362, 3371, 3383, 4332, 4369
 Electives 17 hours¹

Math 1304
 CS 1309
 For Lang or Lab Sci 6-8 hours
 Electives 6 hours¹
 P.E. activities 2 hours

Eng (Soph Lit) 6 hours
 Govt 2313, 2314
 Math 2303
 Behavioral Sci electives: Psy, Soc 6 hours
 P.E. activities 2 hours

Junior Year
 ECO 3341, 3342, 3351, 3354
 Electives 18 hours¹

Senior Year
 ECO 4359 plus 9 additional hours
 Electives 18 hours¹

¹Fourteen hours must be in the School of Business Administration, including at least 6 adv. hours.

¹Electives and/or required courses must include a minor of 18 hours, including at least 6 adv. hours.

The Bachelor of Arts Degree

The BA Degree in Economics is the traditional liberal arts degree, broadly based in the arts and sciences, oriented toward graduate study or a career in teaching, government or business. A minor is required in this program.

General Education Requirements for Bachelor of Arts Degree in Economics: 124 hours required.

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Foreign Language or Lab Science	6-8 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Math 1304, 2303 or 1318, 1319	6 hours
Psychology, Sociology electives	6 hours
P.E. Activities	4 hours
Electives	42 hours ¹

TOTAL124 hours

¹Electives and/or other work must include a minor of at least 18 hours, including 6 adv. hours and sufficient adv. hours in the total program to meet the University's requirement of 36 hours.

Suggested Curriculum

BA in Economics

Freshman Year
 Eng 1301, 1302
 Hist 2313 or 2333, 2314

Sophomore Year
 ACC 2321
 ECO 2351, 2352

Minors offered in the School of Business Administration

Required for a minor in Business Administration:

18 semester hours in the School of Business Administration including ACC 2321; BA 3361, 3371.

Required for a minor in Computer Science:

18 semester hours in Computer Science, of which 6 must be advanced, including CS 1309, 2333, 3333.

Required for a minor in Economics:

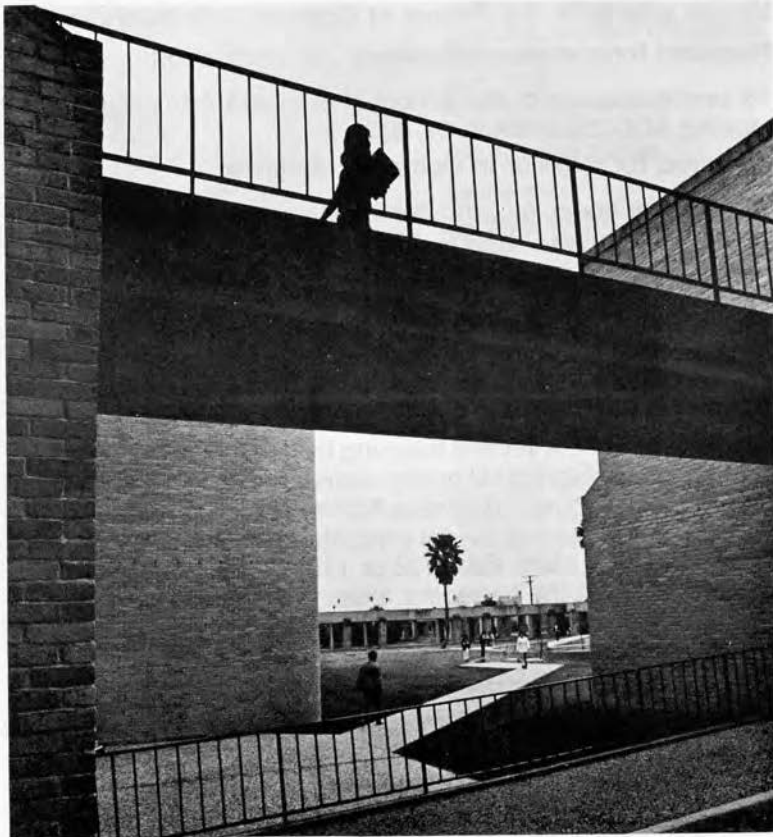
18 semester hours in Economics including ECO 2351, 2352, 3351, 3354.

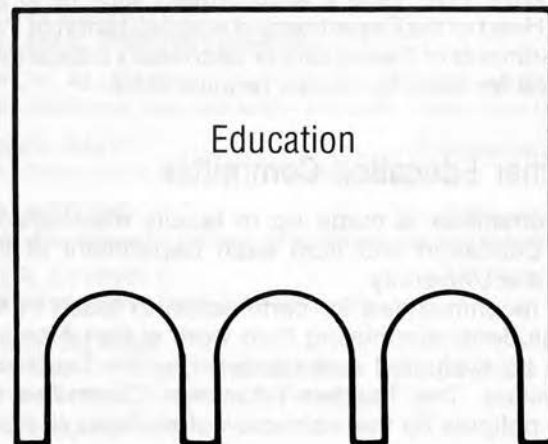
Teacher Certification in Business Administration

Secondary Plan I: A second teaching field (minor) in Business Education, either secretarial or non-secretarial, which is composed of 26 semester hours in Business Administration, of which 12 must be advanced. The secretarial program must include ACC 2321, 2322; BA 1331, 3335; OA 1202 or 1203, 1306 or 1307 (demonstrated ability in the foregoing areas will allow the substitution of approved electives in Business Administration); and nine hours advanced BA electives. For the non-secretarial program, CS 1301 is required instead of OA 1306 or 1307.

Secondary Plan II: A broad field program requiring no second teaching field is offered as a major in Business Education. See the requirements for the Bachelor of Business Administration degree, Business Education Major for the plan.

A concrete and steel walkway (below) connects the office area with the classroom complex in the Education Building. A professor (right) instructs in one of the building's modern and spacious classrooms.





School of Education

Dr. Fred Cunningham, *Dean*

The School of Education includes the Department of Elementary Education, Department of Secondary Education, Department of Health and Physical Education, and the Department of Public Schools and University Cooperative Programs.

The School offers a Bachelor of Science degree in Elementary Education, Secondary Education, Health and Physical Education, and Health Education.

For specific degree requirements and suggested curricula see the departmental areas.

Certificate Requirements for Teachers

Teachers in Texas elementary and secondary schools are required by law to hold a valid Texas teacher's certificate for the grade level, specialization area, or position to which they are assigned.

Prospective secondary school teachers are required to have 24 hours of credit in each of two teaching fields. Prospective elementary majors must have a second field with 18 to 24 hours credit. The Head of the Department of specialization or the Heads of the Departments of Elementary or Secondary Education should be consulted for specific course requirements.

The Teacher Education Committee

This committee is made up of faculty members from the School of Education and from each department of the other Schools of the University.

To be recommended for certification to teach in the State of Texas, students completing their work at Pan American University will be evaluated and approved by the Teacher Education Committee. The Teacher Education Committee not only formulates policies for the admission of students to the teacher

education program, but also approves course offerings in the various teaching fields and the professional preparation for certification.

Application for admission to the Teacher Education Program must be filed with the student's department head or the Teacher Education Committee, in accordance with the following provisions:

- (1) No student shall make application before having reached junior status. Students planning to complete their teacher certification requirements here should apply as soon as possible after they reach junior status.
- (2) Transfer students must delay application until successful completion of one regular semester at Pan American University.
- (3) Applications must be filed at the time of any regular registration period subject to provisions 1 and 2 above.
- (4) A student deciding late in his college career to pursue a program of teacher preparation should observe whichever of provisions 1, 2, and 3 above applies.

The Teacher Education Committee will review the candidate's application, including his transcript of college work completed and the recommendations of the department head of his major and minor fields, and inform him to the effect that (a) he has been admitted conditionally, the conditions being set forth explicitly, or (b) he has been denied admission. *Final approval will be given when the student has been accepted to do his directed teaching.*

It shall be understood that approval of an application does not constitute subsequent recommendation on the part of the University for a certificate to teach. Such recommendation is contingent upon continued demonstration of promise as a prospective teacher and completion of the certification requirements both in professional education and in the major and/or minor teaching fields.

A student admitted on a conditional basis may proceed with a teacher preparation program but must meet the following requirements before he can receive final approval:

- (1) Must be approved for the directed teaching program.
- (2) Must have an overall 2.00 average in his college work.
- (3) Must have at least a 2.25 average in both major and minor fields.
- (4) Must have approval from the education division and from the department head of his major and/or minor fields. Check the university catalog for directed teaching requirements.

Denial of a request for admission does not necessarily constitute a final judgment. It merely means that the student does not appear to show sufficient promise of success as a teacher to justify his continued efforts in that direction. Should the applicant wish to pursue a course of teacher preparation in spite of such a repudiation, he may, after completion of an additional fifteen semester hours of study at Pan American University, file a second application, at which time he will be obliged to appear personally before the Teacher Education Committee.

Students wishing to teach must follow the approved program for their teaching fields. Check with the department head for a degree plan outlining these programs.

Students graduating without following the approved program for their teaching fields must meet all these requirements, in addition to getting the required number of years of teaching experience, before being recommended by Pan American University to receive a Texas certificate.

Students working on a removal of deficiency program toward certification must also have a 2.00 average in all college work and a 2.25 average in the major and minor fields before being recommended by Pan American University for a Texas certificate.

The Teacher Education Council

This council is made up of college personnel and members of the faculties of the public schools in the area. The purpose of the council is to advise the Department of Education and the Teacher Education Committee regarding admission requirements, course offerings, and new programs.

Academic Instructional Staff: School of Education

- *AGUIRRE, REE WALKER Elementary Education
S.S., Sam Houston; M.Ed., Ed.D., University of Houston.
- ALVARADO, VICTOR I Education
Professional Degree in Secondary Education, Pontificia Universidad Catolica de Chile; M.A., Ed.S., Western Michigan University.
- *ANDER, SUSAN Education
B.A., Douglas College; M.A., Peterson State; Ph.D., Texas Women's 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.
- BROOKS, JAMES A. Physical Education
B.S., Middle Tennessee State College; M.A., University of Kentucky.
- BUDD, OTIS T. Physical Education
B.S., M.Ed., University of Texas.
- BURKS, ROBERT Education
B.S., M.Ed., Texas Tech University.
- *CANNADY, ALVIN R. Secondary Education
M.S., Oklahoma State University; and Ed.D., Texas Tech University.
- CARLSON, RALPH Elementary Education
B.A., Drake University; M.A., University of Houston.
- CHAPA, ARTURO Bilingual Education
B.A., Pan American College; M.A., Texas Arts and Industries University.
- CONNER, DENNIS E. Physical Education
B.S., M.Ed., North Texas State University.
- COOKSEY, ROBBIE C. Education
B.A., Stephen F. Austin State University; M.A., Texas Arts and Industries University; Ph.D., University of Texas.

*On Graduate Faculty.

- CUELLAR, EVANGELINA G.** Education
B.A., Texas Women's University; M.S., Texas Arts and Industries University.
- *CUNNINGHAM, FRED J.** Education
B.S., Oklahoma City University; M.Ed., Ed.D., Texas Tech University.
- DAVIS, VIRGINIA L.** Education
B.S., Drake University; M.A., State University of Iowa.
- DOWELL, NANCY** Education
B.S., M.Ed., East Texas State University.
- ESPARAZA, ESTHER** Education
B.A., M.S., Texas Arts and Industries University.
- ESPARAZA, THOMAS** Physical Education
B.A., M.S., Texas Arts and Industries University.
- *FERGUSON, WILLIAM C.** Education
B.A., M.A., University of Mississippi; Ed.D., University of Houston.
- *FRAZIER, IRENE J.** Education
B.B.A., University of Michigan; M.A., University of Denver; Ed.D., University of North Colorado.
- *GARZA, GEORGE** Education
B.A., M.A., Southwest Texas State University; Ph.D., University of Texas.
- *GENTILE, LANCE M.** Elementary Education
B.A. Oakland University; Ph.D., Arizona State University.
- *GONZALEZ, GEORGE** Bilingual Education
B.A., Pan American College; M.Ed., University of Texas; Ph.D., University of New Mexico.
- GRATZ, ELIZABETH** Secondary Education
B.S., Shippenburg State College, PA.; M.Ed., The University of Houston; Ph.D., The University of Iowa.
- GUERRERO, OTON, JR.** Physical Education
B.S., Texas Agricultural and Mechanical University; M.S., Texas Arts and Industries University.
- *GUINN, ROBERT** Health & Physical Education
B.S., Angelo State University; M.Ed., Pan American University; Ph.D., Texas Agricultural & Mechanical University.
- *HARRIS, JACK** Education
B.A., Baylor University; M.Ed., North Texas State University; Ph.D., University of Houston.
- HAWKINS, JEANETTE** Physical Education
B.S., M.Ed., West Texas State University.
- HUGHES, EVA P.** Elementary Education
B.A., Pan American University; M.Ed., Southwest Texas State University.
- *HUNTER, W. ALEXANDER** Education
B.S., Ohio University; M.Ed., Duke University; Ed.D., Columbia University.
- HUTTO, EMMETTE R.** Education
B.S., M.Ed., Sul Ross State University; Ed.D., North Texas State University.
- *JORGENSEN, LAYNE** Physical Education
B.S., M.A., East Carolina University; Ph.D., Louisiana State University.
- *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, 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.
- *LINSKEY, ARTHUR OWEN** Education
B.A., St. Mary's University; M.A., University of Notre Dame; Ph.D., University of North Carolina.
- LIPFORD, MARY ANN** Education
B.S., Texas Woman's University; M.Ed., Texas Agricultural and Mechanical University.
- *McCABE, DENNIS** Education
B.S., M.S., New Mexico Highlands University; Ph.D., University of New Mexico.
- *MOORE, JOHN L.** Education
B.A., University of Tennessee; M.Ed., Utah State University; Ed.D., George Peabody College.
- MUNIZ, AMADITA** Education
B.S., Southwest Texas University; M.Ed., Pan American University.
- OGLETREE, ALFRED H.** Physical Education
B.S., M.Ed., Texas Agricultural and Mechanical University.

*On Graduate Faculty.

*On Graduate Faculty.

- *OHLENDORF, N. K.Secondary Education
B.S., M.Ed., and Ph.D., Texas A & M University.
- *OLESINI, JOSEEducation
B.A., Southern Methodist University; M.Ed., Ph.D., East Texas State University.
- *PARKINSON, CHARLESPhysical Education
B.A., Evansville College; M.S., P.E.D., Indiana University.
- PEREZ, MARIA J.Elementary Education
B.S., Texas A & I University, and M.Ed., Southeastern State of Okla-
- *PHILLIPS, PHYLLISEducation
B.A., Southern State Teachers College; M.A., George Peabody College; Ed.D., Colorado State College of Education.
- *RABKE, MARY LEEPhysical Education
B.S., University of Texas; M.S., University of Southern California; Ph.D., Texas Woman's University.
- *REEVE, ROBERTEducation
B.S., Maryville College; M.S., Lehigh University; Ph.D., Florida State University.
- ROSS, MARY FRANCESElementary Education
B.A., University of California at Berkeley; M.Ed., Pan American University.
- *SEMPER, THOMASPhysical Education
B.S.E., M.S.E., Arkansas State University; Ph.D., Texas Agricultural and Mechanical University.
- SIMMONS, THOMASEducation
B.A., Pan American College; M.S., Texas Arts and Industries University.
- SKAINES, JAMES MARVINPhysical Education
B.S., University of Houston; M.Ed., Sam Houston State College.
- *SMITH, GEORGE W.Education
B.S., M.Ed., Ed.D., Texas Tech University.
- SOLIS, JUAN S.Education
B.A., University of Texas; M.A., Texas Arts and Industries University.
- STURDIVANT, DIANEPhysical Education
B.A., University of Tulsa; M.S., Kansas State Teacher's College.
- *TAYLOR, THOMASINEElementary Education
B.A., Pan American University; M.A., Ph.D., University of Texas.
- *THOMAS, AMILDAPhysical Education
B.S., M.A., Texas State College for Women; Ph.D., Texas Woman's University.
- *THOMPSON, BARRYEducation
B.S., Texas Tech University; M.S., East Texas State University; Ph.D., Texas Agricultural and Mechanical University.
- *TOLAR, ROGEREducation
B.S., M.Ed., University of Texas; Ph.D., University of Texas.
- WILLEFORD, JANICESecondary Education
B.A., M.Ed., Pan American University.
- WILLIAMS, SAMPhysical Education
B.S., Texas Christian University; M.S., North Texas State College.
- *WILLIAMSON, JAMES L.Education
B.A., Baylor University; M.Ed., Ed.D. North Texas State University.
- *WOOD, NOLAN E., JR.Education
B.A., Baylor University; M.Ed., North Texas State University; Ed.D., University of Houston.
- *On Graduate Faculty.

Department of Elementary Education

Dr. James L. Williamson, *Head*

The Department of Elementary Education offers a major in Elementary Education with two options. One option is a preparation program for the regular elementary classroom, and the other option offers specialized preparation in bilingual/bicultural education.

Satisfactory completion of a degree with a major in Elementary Education leads to a provisional elementary teaching certificate. Completion of the bilingual/bicultural option leads also to the bilingual certificate.

The fact that a degree in education from the University may lead to a certificate to teach in the public schools of the state imposes a singular obligation on the part of the University to determine the suitability of the candidate for such for the pro-

fession of teaching. A great deal more than mere scholastic ability is involved. Professional instructional competencies which are applicable to classroom performance are basic to a sound teacher preparation program. Physical and mental health, moral ideals, and professional attitudes are among these additional considerations. The right is reserved, therefore, to restrict the teacher education curriculum to those who measure up to these criteria.

Specialized endorsements to the provisional elementary certificate are offered for teaching the mentally retarded, language learning disabilities, early childhood teachers of exceptional children, and kindergarten.

The elementary teacher education program includes training opportunities by working with children in the public schools. Through the Department's Teacher Education Centers, relevant and practical field experiences are provided for attaining competency.

Many career opportunities are open to students who major in Elementary Education and who attain any one of the specialized endorsements. Since many of the challenging opportunities in the education profession require advanced study and professional certification beyond the Bachelor's Degree, the department offers the Master of Education Degree in Elementary Education, Counseling and Guidance, Special Education (Educational Diagnostician), Bilingual/Bicultural Education, and Reading. Additional programs are offered in Supervision and School Administration.

General Education Requirements for a Bachelor of Science Degree in Elementary Education:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	.6 hours
Foreign Language (Spanish recommended)	.6 hours
Span 2301, 2302—required for Bilingual	
Government 2313, 2314 or 2387, 2388	.6 hours
History 2313 or 2333, 2314 or 2387, 2388	.6 hours
Mathematics	.6 hours
P.E. Activities	.4 hours
Lab Science	.6 hours
Electives	.12 hours

TOTAL58-60 hours

Degree Requirements

Major in Elementary Education and Elementary Certificate:

(Professional Development and Elementary Content Courses to qualify for the provisional (life) certificate.)

30 advanced semester hours in Elementary Education; must include Education 3302, 3311, 3323, 3328, 4611; 6 semester hours from Education 3301, 3303, 3305, 3312; 3-6 semester hours from Education 3313, 3321, 3326, 3327; or a choice of 3 semester hours from Education 3322, 3324, 3329.

Major in Elementary Education with Bilingual/Bicultural Certification:

(Professional Development and Content Courses to qualify for the provisional (life) certificate.)

31 semester hours in Elementary Education; must include Education 2102, 3622, 3624, 3301, 3305, 3602, and 4611.

Minor for Elementary Education Majors:

Elementary Plan I and Plan II, Areas of Specialization: Art, Biology, Bilingual/Bicultural Studies, Chemistry, Earth Science, English, French, Government, Health and Physical Education, History, Mathematics, Physical Science, Physics, Psychology, Sociology, Spanish, Speech; in addition Music Education Elementary Plan II. (See minor field departmental Area Elementary Plan I or Plan II for certification requirements.)

Minor for Elementary Education Majors in the Bilingual/Bicultural Program:

Must include Sociology 4324, History 3373; choice of English/Spanish 4313, English/Spanish 4314; choice of 3 hours from History 4322, 4325, 4353, Sociology 2343, 4313, 4323; choice of 3 hours from English 3313, 3316, 4306; choice of 3 hours from Spanish 4307, 4312; choice of 3 hours from English 4302, Spanish 3305; choice of 3 hours from English 3318, 3319.

Elementary Plan I: 18 semester hours in one subject, of which nine semester hours must be advanced. These may include courses in general education.

Related Area: 18 semester hours from Art 3381, 3382; Geog. 2301, 2313, 2323; Mus. 3311, 3312; P.E. 2351, 2352; Speech 3303; Drama 3306. (6 semester hours may be taken from Psy. 2313, 2323; Eco. 1301; Soc. 2313, 2343).

Elementary Plan II: 24 semester hours in one subject, of which 12 semester hours must be advanced. These may include courses in general education.

Related Area: 12 semester hours from Art 3381, 3382; Mus. 3311, 3312; P.E. 2351, 2352; Speech 3303; Drama 3306; Geog. 2301, 2313, 2323. (3 semester hours may be taken from Psy. 1313, 1323; Eco. 1301; Soc. 1313, 2343).

Endorsement for Teaching Mentally Retarded:

(Education courses required to qualify for the endorsement for teaching the mentally retarded.)

The student must have a Teaching Certificate. Twelve additional hours are required: Education 4371, 4372, 4373, 4374. The student must have a minimum 2.25 GPA in these twelve hours.

Teaching Endorsement for Early Childhood Teachers of Exceptional Children:

For individuals who hold an elementary certificate and a baccalaureate degree from an accredited institution of higher education.

The endorsement of the Early Childhood Education Program for Exceptional Children shall require 12 semester hours of senior level courses. The program requires the following courses in recommended sequence: Ed. 4390, Ed. 4371, Ed. 4372, Ed. 4391. The program must be completed with a minimum 2.25 GPA.

Endorsement for Language/Learning Disabilities:

To qualify for the endorsement for Language/Learning Disabilities, a student must first meet the requirements for an elementary

or a secondary provisional certificate. Fifteen additional hours are required: Psy. 4323, Ed. 4301 or 4302, Ed. 4303-4372-4378. The student must have a minimum 2.25 GPA in these 15 hours.

Kindergarten Endorsement:

For individuals who already hold an Elementary Certificate:

To qualify for the Kindergarten Endorsement, a student, who already holds an Elementary Certificate, shall be required to complete 15 advanced semester hours in Early Childhood Education, three of which are to be student teaching at the Kindergarten level. An individual who has taught full-time under contract in a T.E.A. (accredited) Kindergarten for one year may substitute an additional three hour advanced Early Childhood Education course in lieu of student teaching. The student must have a minimum GPA of 2.25 in the 15 hours required. Early Childhood Education courses are: Ed. 4390, 4391, 4392, 4393, and 4312 or 4314.

The Kindergarten Endorsement as Part of the Bachelor's Degree and Elementary Certificate Program:

To qualify for the provisional elementary certificate with kindergarten endorsement, the student shall be required to complete the following courses: Ed. 4390; 4391; 4392; 4311; 4312; 4314 or 4393.

Endorsement for Bilingual Teachers:

For individuals who already hold an Elementary Certificate.

A certified teacher who has a baccalaureate degree may complete six semester hours in the approved Pan American University Bilingual Education Program as part of the requirements for endorsement in this field. Please consult with the Office of Bilingual Studies, Elementary Education Department for advisement on the specifics of the program. (After 1976, this option for certification in bilingual education will no longer be available.)

Directed Teaching:

Directed teaching is required in partial fulfillment of the requirements for a provisional (life) certificate in Texas. This experience is provided by assigning senior student teachers to work in classroom situations with regular teachers for one full semester in a Cooperative Teacher Education Center. The Department of Elementary Education requires that students entering Directed Teaching must:

1. Have senior standing.
2. Have completed all required courses for freshmen and sophomores.
3. Have at least a 2.00 average in all college courses.
4. Have at least a 2.25 average in both major and minor fields.
5. Have at least a C average in all required freshman English courses.
6. If an Elementary Education major, have completed at least 18 hours of elementary education with at least 9 of those hours in methods (content).
7. If an Elementary Education major working toward a Kindergarten endorsement, must have completed Ed. 4391 in addition to the requirement in number 6 above.

Suggested Curriculum

Elementary Education Major

Freshman Year

Eng 1301, 1302
Math 6 hours
For Lang 6 hours
Hist 2313, 2314
P.E. Activities 2 hours
ED 1301

Junior Year

ED 3302, 3311
Professional area 6 hours²
Related areas 6-9 hours⁴

Sophomore Year

Eng (Soph Lit) 6 hours
Govt 2313, 2314
Lab Sci 6 hours
P.E. Activities 2 hours
Minor 6-9 hours¹
Related areas 6-9 hours³

Senior Year

Content area 9 hours²
ED 4611
Related areas 6-9 hours¹

Minor 6-9 hours¹
Electives 6 hours

Minor 6-9 hours¹
Electives 6 hours

¹Consult minor field for course requirements, EL Plan I or II. A minimum of 9 adv. hours must be included in Plan I and 12 adv. hours in Plan II.

²The remaining 6 professional hours must be from ED 3301, 3303, 3305, 3312.

³Required 6 hours—ED 3323 and 3328. The remaining 6 hours must be from ED 3313, 3321, 3326, 3327. If desired, 3 hours may be chosen from ED 3322, 3324, 3329.

⁴EL Plan I calls for 18 hours in related courses. EL Plan II calls for 12 hours in related courses (Refer to minor for EL Ed Majors).

Department of Secondary Education

Dr. Barry B. Thompson, *Head*

The Department of Secondary Education offers a competency-based teacher certification program leading to a Bachelor of Science Degree in Secondary Education and requiring a 30 semester hour major in a teaching discipline, 24 semester hours in professional secondary education, and 24 semester hours in a second teaching discipline. In addition, the Department of Secondary Education offers the traditional 18 hour teaching certificate for the junior and senior high school. Specific teaching competencies are required for the Secondary Education Degree. This degree requires teacher internships in both junior and senior high schools. Numerous public schools in the State of Texas give preference in their hiring policies to teachers who are products of competency-based teacher education programs such as the Bachelor of Science Degree offered by the Department of Secondary Education at Pan American University.

The Department of Secondary Education requires a four year clinical course of study for those students choosing to obtain teacher certification through completion of the Secondary Education Degree. Three Professional Development Centers located in the Pharr-San Juan-Alamo Independent School District and one Professional Development Center located in the Edinburg Consolidated Independent School District presently provide laboratory facilities for teacher interns and teacher trainees.

The Department of Secondary Education provides graduate degrees in Educational Administration, Secondary Education (Professional), and in Supervision. In addition, the Department of Secondary Education provides a 45 semester hour graduate program which leads to the Professional Administrators Certificate with the Middle-Management endorsement. A 60 semester hour graduate program which leads to the Professional Administrators Certificate with the Superintendency endorsement is also offered. Graduate students in Educational Administration who meet the doctoral entrance requirements at the University of Houston may receive 24 semester hours credit toward the Doctor of Education degree from Pan American University. The 24 hours, with prior approval, will be accepted by the University of Houston.

Research studies and other public school oriented services are important functions of the staff of the Department of Secondary Education. The Texas School Facilities Project, funded by the Governor's Office of Educational Research and Planning, was conducted by the faculty and graduate students of the Department of Secondary Education.

General Education Requirements for the Bachelor of Science Degree (24 hours in Secondary Education, 30 hours in Major Teaching Field and 24 hours in Minor Teaching Field) in Secondary Education:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Mathematics, Foreign Language, or Lab Science	12-14 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL.....52-56 hours

Degree Requirements

Teaching Certificate for Junior and Senior High School (Traditional)

18 advanced semester hours; must include Ed. 4352, Ed. 4641, and 9 semester hours from Ed. 3301, Ed. 3302, Ed. 3303, Ed. 3341, Ed. 3342, Ed. 4351, Ed. 4353.

Teacher Certificate for Junior and Senior High School (Competency-Based with Secondary Education Degree):

24 semester hours in secondary education, 18 of which must be advanced; must include Ed. 1201, Ed. 1202, Ed. 2101, Ed. 2102, Ed. 3201, Ed. 3401, Ed. 3202, Ed. 3402, Ed. 4401, Ed. 4201.

Major Fields for Secondary Plan I: Art, Biology, Chemistry, English, French, Drama, Government, Health and Physical Education, History, Mathematics, Physical Science, Physics, Spanish, Speech—and require a second teaching field (minor).

Second Teaching Field (minor): Art, Biology, Business Education, Chemistry, Drama, English, French, Government, Journalism (Mass Communications), Health and Physical Education, Earth Science (Geology), History, Mathematics, Physical Science, Physics, Spanish, and Speech.

Major Fields for Secondary Plan II: Business Education, Music Education, and Social Studies. A second teaching field (minor) is not required. Consult the major field departmental area (Secondary Plan II) for the major and certification requirements.

Major Fields for All-Level: Art, Health and Physical Education, and Music. Health and Physical Education all-level majors require a second teaching field; however, a second teaching field is not required of Art and Music majors. All-level: Ed. 3302, Ed. 3311, or Ed. 3312; Ed. 3341 or Ed. 3342; Ed. 4352, Ed. 4641.

Both major and minor fields, Secondary Plan I, Secondary Plan II, and All-Level may include courses in General Education, except for P.E. activity courses.

Teaching Endorsement for Teaching Mentally Retarded:

The student must meet the requirements for the provisional elementary or secondary certificate. Twelve hours are required: Ed. 4371, Ed. 4372, Ed. 4373, Ed. 4374.

Teaching Endorsement for Language/Learning Disabilities:

To qualify for the endorsement for Language/Learning Disabilities, a student must meet the requirements for an elementary or a secondary provisional certificate. Fifteen additional hours are required; Psy 4323, Ed. 4301 or Ed. 4302, Ed. 4303, Ed. 4372, Ed. 4378.

Teaching Endorsement for Teaching Driver's Education:

The student must meet the requirements for an elementary or secondary provisional certificate. Six hours are required; Dr. Ed. 4304, Dr. Ed. 4305.

Directed Teaching (Secondary):

Directed teaching is a critically important component in the process of becoming a professional teacher. Directed teaching is required by the Texas Education Agency. Directed teaching is provided as a service of the Department of Secondary Education and is considered to be essential in the preparation of competent teachers.

The Department of Secondary Education requires that students entering Directed Teaching:

1. Have senior standing
2. Have completed all required courses in the General Education sequence
3. Have at least a 2.00 Grade Point Average in all university courses
4. Have at least a 2.25 Grade Point Average in the major(s) teaching field
5. Have at least a 2.00 Grade Point Average in all required English courses
6. Have completed at least 18 semester hours in the major(s) teaching field and 12 semester hours of professional secondary education; 3 hours of which must be Ed. 4352.

Suggested Curriculum

Secondary Education Degree

Freshman Year

Eng 1301, 1302
Math, Lab Sci or For Lang 6-8 hours¹
Hist 2313 or 2333, 2314
P.E. 2 hours
ED 1201, 1202
Electives 6 hours

Junior Year

ED 3201, 3401, 3202, 3402
Major Teaching Field 12 hours (with 6 adv.)
Minor Teaching Field 9 hours (with 6 adv.)
Elective 3 hours

Sophomore Year

Eng (Soph Lit) 6 hours
Govt 2313, 2314
Math, Lab Sci or For Lang 6-8 hours¹
P.E. 2 hours
ED 2101, 2102
Major Teaching Field 6 hours
Minor Teaching Field 3 hours

Senior Year

ED 4401, 4201
Major Teaching Field 12 adv. hours
Minor Teaching Field 12 adv. hours
Elective 3 hours,

¹A total of 12 hours from 2 of the 3 areas is required.

Department of Health and Physical Education

Dr. W. Darrel Black, *Head*

The Department of Health and Physical Education offers a Bachelor of Science degree with majors in Health and Physical Education and Health Education. The department offers minors in Health and Physical Education and Health Education.

Health and Physical Education students may elect a curriculum for a major in Health and Physical Education for the secondary level or a Health and Physical Education all-level teaching plan. The Health Education major or minor is for the secondary level only.

Four semester hours of credit in Physical Education activity courses are required for graduation. This requirement is met during both semesters of the freshman and sophomore years. Health and Physical Education majors are required to take eight semester hours in activity courses.

No more than four semester hours of activity courses may be counted toward graduation except by Health and Physical Education majors who may count a maximum of eight semester hours. Activity courses cannot be counted toward major or minor in Health and Physical Education.

Students enrolled in physical education are expected to furnish regulation uniforms for activity classes. The regulation uniforms are available in the university bookstore. A fee is charged to students for some of the elective activity courses.

The department offers a major in Physical Education at the Master's level.

General Education Requirements for Bachelor of Education Degree in Health and Physical Education or Health Education:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Biology 1401, 2403	8 hours
Mathematics or Foreign Language	6 hours
P.E. Activities	8 hours
(Health Education Majors—4 hours)	
Electives	12 hours
TOTAL	58-60 hours

Physical Education

Degree Requirements for Men

Health and Physical Education majors and minors are required to take Biology 1401 and 2403. It is desired that the student, by the end of the sophomore year, possess both knowledge and skills in individual sports and team sports. Majors must have credit in P.E. 1100, 2103, 2104, 2108, 2125, 2157. Through demonstrated proficiency any of the above required activity courses may be waived and another activity course substituted.

Major in Health and Physical Education (for men):

30 semester hours in Health and Physical Education, of which 15 semester hours must be advanced; must include P.E. 1351, 2354, 3302, 3319, 3353, 4354, H.E. 4350, and nine additional semester hours. Biology 1401, 2403; P.E. 1100, 1101, 2103, 2104, 2108, 2125, 2157 and one semester hour activity course elective.

Minor in Health and Physical Education (for Men):

18 semester hours in Physical Education, of which six semester hours must be advanced.

Teacher Certification in Health and Physical Education (for Men):

Elementary Plan I: 18 semester hours in Physical Education, of which nine semester hours must be advanced; must include P.E. 1351, 2351, 3317, 3356, H.E. 2352, and three advanced hours from P.E. 4351, 4352, 4353, 4355, H.E. 4356.

Elementary Plan II: 24 semester hours in Physical Education, of which 12 semester hours must be advanced; must include P.E. 1351, 2351, 3317, 3356, H.E. 1352, H.E. 2352, and six advanced hours from P.E. 4351, 4352, 4353, 4355, H.E. 4356.

Secondary Plan I: 24 semester hours in Physical Education, of which 12 semester hours must be advanced; must include Biology 1401, 2403 and P.E. 1351, 2354, 3302, 3319, 3353, 4354, H.E. 4350, and 3 advanced semester hours. A second teaching field of 24 hours, of which 12 semester hours must be advanced.

All-Level: 27 semester hours in Physical Education, of which 12 semester hours must be advanced; must include Biology 1401, 2403; and P.E. 1351, 2351, 2354, 3302, 3319, 3353, 3356, 4354, H.E. 4350. A second teaching field of 24 semester hours, of which 12 semester hours must be advanced.

Degree Requirements for Women

Health and Physical Education majors and minors are required to take Biology 1401 and 2403. It is desired that the student, by the end of the sophomore year, possess both knowledge

and skills in individual sports and team sports. Majors must have credit in P.E. 1100, 2103, 2104, 2108, 2125, 2126, 2157, and one hour activity course elective. Through demonstrated proficiency any of the above required activity courses may be waived and another activity course substituted.

Major in Health and Physical Education (for Women):

30 semester hours in Physical Education, of which 15 semester hours must be advanced; must include P.E. 1351, 2354, 3310, 3312, 3319, 3322, 3353, 4354, H.E. 4350, and three additional hours. Biology 1401, 2403; P.E. 1100, 2103, 2104, 2108, 2125, 2126, 2157, and one hour activity course elective.

Minor in Health and Physical Education (for Women):

18 semester hours in Physical Education, of which six semester hours must be advanced.

Teacher Certification in Health and Physical Education (for Women):

Elementary Plan I: 18 semester hours in Physical Education, of which nine semester hours must be advanced; must include P.E. 1351, 2351, 3312, 3317, 3356, H.E. 2352.

Elementary Plan II: 24 semester hours in Physical Education of which 12 semester hours must be advanced; must include P.E. 1351, 2351, 3312, 3317, 3310, H.E. 1352, 3356, H.E. 2352.

Secondary Plan I: 24 semester hours in Physical Education of which 12 semester hours must be advanced; must include Biology 1401, 2403, and P.E. 1351, 2354, 3310 or 3322, 3312, 3319, 3353, 4354, and H.E. 4350. A second teaching field or 24 semester hours, of which 12 semester hours must be advanced.

All-Level: 30 semester hours in Physical Education, of which 12 semester hours must be advanced; must include Biology 1401, 2403; and P.E. 1351, 2351, 2354, 3310 or 3322, 3312, 3319, 3353, 3356, 4354, and H.E. 4350. A second teaching field of 24 semester hours, of which 12 semester hours must be advanced.

Health Education

Degree Requirements:

Major in Health Education:

30 semester hours in Health Education, of which 15 semester hours must be advanced; must include H.E. 1352, 1354, 2371, 2372, 3373, 3375, 4350 and 9 semester hours electives in Health Education, 6 of which must be advanced; Biology 1401 and 2403.

Minor in Health Education:

18 semester hours in Health Education, of which six semester hours must be advanced.

Teacher Certification in Health Education:

Secondary Plan I: 24 semester hours in Health Education, of which 12 semester hours must be advanced; must include H.E. 1352, 1354, 2372, 2372, 3373, 3375, 4350, and 3 semester hours electives in Health Education. Biology 1401, 2403. A second teaching field of 24 semester hours, 12 of which must be advanced.

Suggested Curricula

**Physical Education Major (For Men)
(With Secondary Teacher Certification)**

Freshman Year

Eng 1301, 1302
Biol 1401
Hist 2313, 2314
Math or For Lang 6 hours
P.E. 1100, 1101, 2103, 2104, 1351

Sophomore Year

Eng (Soph Lit) 6 hours
Govt 2313, 2314
Biol 2403
P.E. 2108, 2125, 2157, and
1 hour elective
P.E. 2354
Minor 3 hours
Major electives 3 hours
Electives 6 hours

Junior Year
P.E. 3353, 3302, 3319
Minor 9 hours
ED 3302, 3341, 3342
Elective 3 hours
Major elective 3 hours

Senior Year
ED 4352, 4641
H.E. 4350
P.E. 4354
Minor 12 hours
Elective 3 hours
Major 3 adv. hours

Junior Year
ED 3302, 3341, 3342
Minor 12 hours
H.E. 3373
H.E. 3375
Major electives 3 hours
Electives 3 hours

Senior Year
ED 4352, 4641
H.E. 4350
Major electives 6 hours
Minor 9 hours
Electives 3 hours

Physical Education Major (For Women) (With Secondary Teacher Certification)

Freshman Year
Eng 1301, 1302
Biol 1401
Hist 2313, 2314
Math or For Lang 6 hours
P.E. 1100, 2103, 2104, 2125,
1351

Sophomore Year
Eng (Soph Lit) 6 hours
Govt 2313, 2314
Biol 2403
P.E. 2108, 2126, 2157, and 1 hour
elective
P.E. 2354
Minor 3 hours
Electives 6 hours

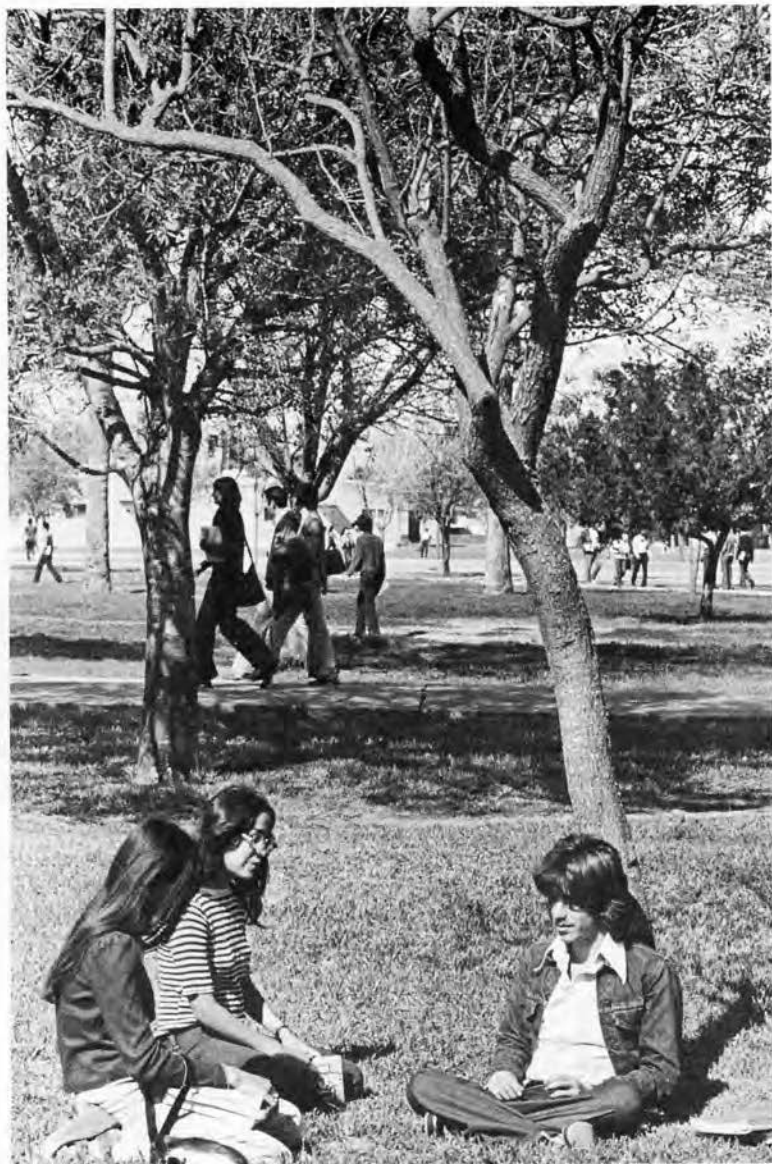
Junior Year
P.E. 3353, 3310, 3312, 3319
Minor 9 hours
ED 3302, 3341, 3342
Elective 3 hours
Major elective 2 hours

Senior Year
ED 4352, 4641
H.E. 4350
P.E. 4354
Minor 12 hours
Elective 3 hours
Major elective 3 hours

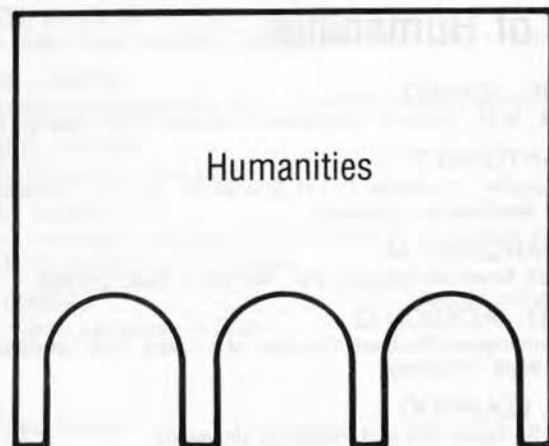
Health Education Major (With Secondary Teacher Certification)

Freshman Year
Eng 1301, 1302
Biol 1401
Hist 2313, 2314
Math or For Lang 6 hours
P.E. activity electives 2 hours
H.E. 1352
H.E. 1354

Sophomore Year
Eng (Soph Lit) 6 hours
Govt 2313, 2314
Biol 2403
P.E. activity electives 2 hours
H.E. 2371
H.E. 2372
Minor 3 hours
Electives 6 hours



Pottery-making classes at Pan Am (below) are a favorite among students. The Drama Department's presentation of Albee's "Tiny Alice" (left) was a prelude to a five-state elimination contest. The Fine Arts Center (below left) provides facilities for all the arts including music, art and speech and drama. Sitting under a tree between the Library and the Engineering Building students (far left) relax between classes.



School of Humanities

Dr. Raymond H. Miller, *Dean*

The School of Humanities includes the Departments of Art, English and Mass Communications; Foreign Language; Music; and Speech and Drama.

The School offers the Bachelor of Arts degree with a major in Art, Drama, English, Mass Communications, Music, Spanish, and Speech. Minors are available in all the fields in which majors are offered. Supporting courses are offered in French, German, Latin, and Portuguese.

The Master of Arts degree is offered in English and Spanish.

In addition to the degree programs the School of Humanities provides instruction in the content and participation in the culture and related activities of the heritage of the Americas. These cultural programs are available to the students and to the entire community served by the University.

Academic Instructional Staff:

School of Humanities

- *ANDERSON, JOHN D. Music
B.P.S.M., M.M., Southern Methodist University; Ph.D., George Peabody.
- *ANILLO, ANTONIO F. Spanish
J.D., Havana University; Dr. of Education, Havana University; Ph.D., George Washington University.
- BALTIS, MARGARET M English
B.A., Pan American College; M.A., McNeese State College.
- *BAREFIELD, JACKSON G Speech
B.A., Birmingham-Southern College; M.A., New York University; Ph.D., Florida State University.
- BARRERA, EDUARDO Spanish
B.S., M.S., Texas Arts and Industries University.

- *BEAUDRY, CHARLES E French, German, Spanish
Ph.B., M.A., Marquette University; Ph.D., Laval University.
- BEAUDRY, EILLEN French
Ph.B., Marquette University; M.A., Laval University.
- BEHRENS, SUSAN M. Speech
B.A., Eastern Michigan University; M.A., Ohio University.
- BLOOM, LEONARD S. English
B.F.A., University of Texas; M.A., St. Mary's University.
- *BROWNE, NORMAN A. Art
B.S., Washington State University; M.A., San Francisco State College; Ed.D., Indiana University.
- CALDERON, CARLOS I. Spanish
B.A., Sul Ross; M.A., University of Texas.
- CANTY, DEAN R. Music
B.Mus., Texas Western College; M.M.E., North Texas State University.
- CARARAS, SANDRA ANN English
B.A., M.A., Northeast Louisiana State University.
- CONTRERAS, VICTORIA Spanish
B.A., Pan American College; M.A., Pan American University.
- COURTNEY, JANICE RAY Speech
B.F.A., M.F.A., University of Texas.
- CREWS, RUTH Music
B.M., M.M., University of Texas.
- CUMMINS, DOUGLAS Speech
B.M.E., M.F.A., Texas Christian University.
- DANIEL, TED C. English
B.A., Texas Christian University; M.F.A., University of Arkansas.
- DAVIS, WILLIAM English
B.A., Texas Christian University; M.A., University of New Mexico.
- *DEAN, PAULA FIX English
B.A., M.A., Texas Tech University; Ph.D., Auburn University.
- DELUNA, FERNANDO English
B.A., St. Edward's University; M.A., University of Texas.

*On Graduate Faculty.

- *DOMINGUEZ, SYLVIA M.Spanish
B.A., M.Ed., Our Lady of the Lake; M.A., Ph.D., University of Arizona.
- *DOWELL, BOBEnglish
B.A., Baylor University; M.A., East Texas State University; Ph.D., University of Denver.
- *DRAKELEY, RAY K.Music
A.B., B.M., Roosevelt University; M.A., Columbia University.
- DREYER, FERNEEnglish
B.A., Pan American College; M.S., Texas Arts and Industries University.
- *DUGAN, E. CLAREEnglish
B.A., Park College; M.A., Texas Arts and Industries University; Ed.D., Ball State University.
- *EVANS, JAMES LEROYEnglish
B.A., B.S., Central Missouri State University; M.A., University of Colorado; M.A., Ph.D., University of Texas.
- FIELD, PHILIPArt
B.F.A., Syracuse University; M.F.A., Rhode Island School of Design.
- GARCIA, LINOSpanish
B.A., St. Mary's University; M.A., North Texas State University.
- *GRANTZ, CARL LEONEnglish
B.A., Centenary College; M.A., Teachers College, Columbia University; Ph.D., University of Texas.
- *GREER, THOMAS H.Music
B.S., McMurry College; M.Mus., Southern Methodist University; Ph.D., North Texas State University.
- *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, JACKEnglish
B.A., M.A., University of Austin; Ph.D., Texas Christian University.
- HUBER, DWIGHTEnglish
B.A., West Texas State University.
- HYSLIN, RICHARD P.Art
B.S., Oregon State College; M.A., University of New Mexico.
- *LYFORD, ROLAND HAZENEnglish
B.A., M.A., Middlebury College; Ph.D., University of California at Davis.
- McLEMORE, GEORGE C.Speech
B.A., M.A., University of Houston.
- McMULLEN, EUGENIAMusic
A.B., Marshall University; M.A., Columbia University Teachers College.
- *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.
- *MITCHELL, PAULEnglish
B.A., M.A., New Mexico Highlands University; Ph.D., University of Southern Mississippi.
- MOORE, ALTON O., JR.French, Spanish
B.A., Pan American College; M.A., University of Texas.
- MOORIS, RUTH DEANMusic
B.M., Baylor University; M.M., Eastman School of Music.
- *NICHOLS, EDWARD D.Art
B.F.A., M.F.A., University of Kansas.
- NIEBUHR, MARVIN D., JR.Art
B.F.A., Bradley University; M.A., New Mexico Highland University.
- NIELSEN, KARL B.Music
B.A., Iowa State Teachers' College; M.A., Columbia University.
- OLIKER, JAMESEnglish
A.B., Syracuse University; M.A., University of New Mexico.
- PRATHER, SUSANEnglish
B.A., University of Kansas.
- *PRINCE, NANCY M.Art
B.A., University of Southern Louisiana; M.A., Louisiana State University; Ph.D. Southern Illinois University.
- QUIN, HARRYMass Communications
B.J., M.A., University of Texas.

*On Graduate Faculty.

*On Graduate Faculty.

- *RAIMO, JOHNMusic
B.M., M.M., The Conservatory of Music of Kansas City; M.A., Columbia University; D.M.A., Eastman School of Music.
- REA, RAMIRO R.Spanish
B.A., M.A., Sam Houston State University.
- *REED, MICHAELEnglish
B.A., University of Idaho; M.A., Ph.D., University of Oregon.
- ROBINSON, MARGUERITEEnglish
A.B., M.A., Austin College.
- SANCHEZ, ENCARNACIONSpanish
B.A., Pan American College; M.A., Sam Houston State University.
- SCHMIDT, DOROTHY S.English
B.A., Pan American College; M.S., Texas Arts and Industries University.
- *SCHRAER, MIMOSA S.English
B.A., Pan American University; M.A., Ph.D., Texas Tech University.
- SEALE, CARLMusic
B.M., Baylor University; M.Ed., University of Louisville; D.M.A., North Texas State University.
- SEALE, JANEnglish
B.A., University of Louisville; M.A., North Texas State University.
- *SMITH, MARIAN M.Speech
B.S., M.S., Fordham University; Ph.D., Cornell University
- *SOBIN, NICOLASEnglish
A.B., A.M., University of Missouri; Ph.D., University of Texas.
- STEVENS, DAVID K.E.Music
B.Mus., Oberlin College; M.M., University of Illinois.
- *STOVER, JAMES A.Music
B.S., M.A., Columbia University.
- SWENSON, SANDRAArt
B.A., University of Colorado; M.A., Colorado State College.
- UNDERWOOD, BRUCEEnglish
B.S., Southern Methodist University; M.A., Stanford University; Ph.D., University of Missouri.
- *VON ENDE, FREDERICKEnglish
B.A., McMurry College; M.A., Ph.D., Texas Christian University.

*On Graduate Faculty.

- WADE, SETHEnglish
A.B., University of Kentucky; M.A., Louisiana State University.
- WALDMAN, LUCILA MONTOYAMusic
A.B., Hunter College; M.M., Manhattan School of Music.
- *WHITE, OPAL T.Speech
B.A., University of Iowa; M.A., North Texas State University; Ph.D., University of Oklahoma.
- *WILLCOTT, PAUL J.English
B.A., M.A., University of Texas; Ph.D., University of Texas.
- *WORMAN, HAROLD L.Music
B.M.E., M.M.E., University of Wichita.
- WRIGHT, CARL C.English
B.A., Southwest Texas State College; M.A., University of Texas.

*On Graduate Faculty

Department of Art

Dr. Nancy Prince, *Head*

The department of Art consists of the subject areas of Art Education, Art History, Ceramics, Crafts, Painting, Printmaking, and Sculpture. The Bachelor of Arts degree is offered with a major in Studio Art or in Art Education (all-level teaching plan). The Bachelor of Fine Arts is offered with a degree in Studio Art or in Secondary Art Education.

The Department of Art offers both a major and a minor in Art. In addition, it offers courses for students seeking a second teaching field for teacher certification on the elementary and secondary levels.

An undergraduate specializing in Art may choose the studio major or the Art education major. The studio major will, after graduation, continue his studies in graduate school or work as an artist in the community of his choice. The art education major will teach art in the secondary or elementary schools.

Although all majors are required to take courses in drawing, design, and art history, studio courses and education courses are chosen in compliance with the student's interest and goals.

General Education Requirements for a Bachelor of Arts Degree in Art: 124 total hours required for degree.

English 1301, 1302 or 1387, 1388 or 1405, 1406	.....6-8 hours
Sophomore Literature	.....6 hours
Government 2313, 2314	.....6 hours
History 2313 or 2333, 2314	.....6 hours
P.E. Activities	.....4 hours
Music 2307	.....3 hours
Mathematics, Foreign Language or Lab Science	..12-14 hours
Electives	.....12 hours

TOTAL55-59 hours

Degree Requirements

Major in Art:

36 semester hours in Art, of which 15 semester hours must be advanced; including Art 1311, 1331, 3 semester hours from: 2321 or 3321, 2341, 2361, or 2371, 2332, 3350 and 3 additional hours in Art History; 6 advanced hours of Studio Courses; and 12 hours of Art electives.

Major in Art Education

(B.A., all level):

48 semester hours in Art, of which 24 semester hours must be advanced; including Art 1301, 1311, 1331, 2332, 2303 or 2304, 2312, 2321 or 3321, 3350, 3381, 3382, 3383, 4383, 3 additional hours in Art History, and 9 semester hours in Studio courses (at least 6 advanced).

Major in Art:

60 semester hours in Art, of which 36 semester hours must be advanced; including Art 1301, 1311, 1312, 2312, 1331, 2332, 2301; 3 to 6 hours from 2321 or 3321, 2361, 2341; 3 to 6 hours from 2371, 2303 or 2304; 12 semester hours adv. studio; 12 semester hours of Art History; 6 adv. hours of Art electives.

Major in Art Education

(B.F.A., Secondary certification)

57 semester hours in Art, of which 30 semester hours must be advanced: including Art 1301, 1311, 1312, 1331, 2332; 12 semester hours from 2321 or 3321, 2361, 2342, 2371, 2303 or 2304; 3383, 4383; 6 semester hours adv. studio; 12 semester hours adv. Art history; 6 adv. hours of art electives.

Minor in Art:

18 semester hours in Art, of which 9 semester hours must be advanced; including Art 1311, 1331, 2332, 3350, and 6 advanced semester hours of Art History or Studio.

Teacher Certification in Art as a Minor field:

Elementary Plan I: 18 semester hours in Art, of which 9 semester hours must be advanced; must include Art 1311, 1331, 2332, 3381, 3350.

Elementary Plan II: 24 semester hours in Art, of which 12 semester hours must be advanced; must include Art 1311, 1331, 2321, 2332, 3381, 3382, 3350 and 3 advanced semester hours in Art History or studio.

Secondary Plan I: 24 semester hours in Art, of which 12 semester hours must be advanced; must include Art 1311, 1331, 2321 or 3321, 2332, 3383, 3350, 4383, and 3 advanced hours from Art 3351, 3352, 4352, 4353.

Departmental Requirements

Transfers: Students wishing to transfer into Art at the junior level or above must submit a portfolio of their work and meet with the Art faculty for program planning.

Majors: Students majoring in Art are required an interview with the Art faculty at the end of their junior year.

Exhibits: Senior Art majors are required to exhibit examples of their work during their senior year. This work must meet with faculty approval before exhibition.

The letter grade "C" will be the minimum prerequisite grade for continuing Studio courses in sequence.

Suggested Curricula

Studio Art Major

(B.A.)

Freshman Year

Art 1311, 1331
Eng 1301, 1302
Music 2307
P.E. 2 hours
Twelve hours from two of the following fields:
Math, Lab Sci, or For Lang

Junior Year

Art 3350
Art Elective 3 hours
Art Elective 3 adv. studio hours
Hist 2313 or 2333, 2314
Minor 12 hours

Studio Art Major

(B.F.A.)

Freshman Year

Art 1301
Art 1311, 1312
Art 1331, 2332
Eng 1301, 1302
Twelve hours from two of the following fields:
Math, Lab Sci or For Lang
P.E. 2 hours
Mus 2307

Sophomore Year

Basic Studio 2332
Eng (soph lit) 6 hours
Govt 2313, 2314
P.E. 2 hours
Electives 12 hours

Senior Year

Art History 3 adv. hours
Art Elective 9 hours
Art Elective 3 adv. studio hours
Minor 6 adv. hours
Electives 15 adv. hours

Sophomore Year

Art 2312
Basic Art 6 hours
Eng (Soph Lit) 6 hours
Govt 2313, 2314
Twelve hours from two of the following fields:
Math, Lab Sci, or For Lang
P.E. 2 hours
Elective 3 hours

Junior Year

Basic Art 6 hours
Art Studio 6 adv. hours
Art History 6 adv. hours
Hist 2313 or 2333, 2314
Elective 3 adv. hours
Electives 3 hours

Art Education Major (All-Level)

Freshman Year

Art 1301, 1311, 1331
Eng 1301, 1302
Music 2307
P.E. 2 hours
Twelve hours from two of the following fields:
Math, Lab Sci, or For Lang

Junior Year

Art 3350, 3381, 3382
Art Elective 3 studio hours
Hist 2313 or 2333, 2314
Ed 3302, 3311 or 3312, 3341 or 3342
Elective 3 hours

Art Education Major (Secondary) (B.F.A.)

Freshman Year

Art 1301
Art 1311, 1312
Art 1331, 2332
Eng 1301, 1302
Twelve hours from two of the following fields:
Math, Lab Sci, or For Lang
P.E. 2 hours
Mus 2307

Junior Year

Art Studio 6 adv. hours
Art History 6 adv. hours
Hist 2313 or 2333, 2314
Ed 9 hours
Electives 6 hours

Senior Year

Art Studio 6 adv. hours
Art History 9 adv. hours
Art Electives 6 adv. hours
Elective 3 adv. hours
Electives 6 hours

Sophomore Year

Art 2321 or 3321, 2332, 2312, 2303 or 2304
Eng (Soph Lit) 6 hours
Govt 2313, 2314
P.E. 2 hours

Senior Year

Art 3383, 4383
Art Elective 6 adv. studio hours
Ed 4352, 4641
Electives 9 hours

Sophomore Year

Basic Art 6 hours
Eng (Soph Lit) 6 hours
Govt 2313, 2314
Twelve hours from two of the following fields:
Math, Lab Sci, or For Lang
P.E. 2 hours

Senior Year

Art 3383, 4383
Art History 6 adv. hours
Art Electives 6 adv. hours
Ed (Directed teaching) 6 hours
Electives 6 hours

Department of English and Mass Communications

Dr. Carl L. Grantz, *Head*

The Department of English and Mass Communications offers undergraduate major and minor programs in English and in mass communications. Secondary teacher certification plans are offered in English and Journalism; elementary certification plans are offered in English. In addition, the department also offers a graduate major program leading to the M.A. in English.

Major and minor programs in English offer students an opportunity to learn more about the world they live in, to learn to appreciate the artistic works of fellow humans, and to develop literary and language aptitudes of their own. To students who view education primarily as career training, English and mass communications programs afford excellent preparation for any profession requiring a high degree of literary and strong oral and written communication skills.

Major and minor programs in mass communications are designed to prepare students for professional careers in electronic and print media, and also offer courses which give the general student an understanding of the influence of media in his life and in society.

General Education Requirements for the Bachelor of Arts degree in English and in Mass Communications:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Foreign Language	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Mathematics or Lab Science	6-8 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL52-56 hours

Degree Requirements

Major in English

(Specialization in Literature without Teacher Certification):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or 1387 and 1388 or 1405 and 1406; 2301 and 2302 or 2387 and 2388 or approved substitutes; 3312, 3313, 4301, and 3319 or 4302 or 4320; 12 hours of advanced English electives. In addition the following courses are required: Art 1301 and Music 2307.

Major in English

(Specialization in Language without Teacher Certification):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or approved substitutes; 2301 and 2302 or 2387 and 2388 or approved substitutes; 3318, 3319, 4302, 4308, 4313, 4314; 6 hours of advanced English electives. In addition, the following courses are required: Art 1301 and Music 2307.

Major in English

(Specialization in Literature with Elementary Teacher Certification, Plan I):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or approved substitutes; 2301 and 2303 or 2387 and 2388 or approved substitutes; 3312, 3313, 4301, and 3319 or 4302; 12 hours of advanced English electives from 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3309, 3310, 3311, 3317, 3322, 3324, 4306, 4308, 4309, 4310, 4312, 4316, 4324. In addition, the following courses are required: Art 1301 and Music 2307.

Major in English

(Specialization in Literature with Elementary Teacher Certification, Plan II):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or approved substitutes; 2301 and 2302 or 2387 and 2388 or approved substitutes; 3312, 3313, 4301, and 3319 or 4302; 12 hours of advanced English electives from 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3309, 3310, 3311, 3317, 3318, 3319 or 4302, 3320, 3322, 3324, 4306, 4308, 4309, 4310, 4312, 4313, 4314, 4316, 4320, 4324. In addition, the following courses are required: Art 1301 and Music 2307.

Major in English

(Specialization in Language with Elementary Teacher Certification, Plan II):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or approved substitutes; 2301 and 2302 or 2387 and 2388 or approved substitutes; 3318, 3319, 4302, 4308, 4313, 4314; 6 hours of advanced literature electives. In addition, the following courses are required: Art 1301 and Music 2307.

Major in English

(Specialization in Literature with Secondary Teacher Certification):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or approved substitutes; 2301 and 2302 or 2387 and 2388 or approved substitutes; 3312, 3313, 4301, and 3319 or 4302; 12 hours of any advanced English electives; except 4323. In addition, the following courses are required: Art 1301 and Music 2307.

Major in English

(Specialization in Language with Secondary Teacher Certification):

36 semester hours of English of which 24 must be advanced; must include English 1301 and 1302 or approved substitutes; 2301 and 2302 and 2387 and 2388 or approved substitutes; 3318, 3319, 4302, 4308, 4313, 4314, 4301; 3 hours of any advanced English electives except 4323. In addition, the following courses are required: Art 1301 and Music 2307.

Minor in English

(without Teacher Certification):

18 semester hours of English of which six semester hours must be advanced.

Minor in English

(with Teacher Certification):

Elementary Plan I: 21 semester hours of English of which 9 must be advanced; must include English 1301 and 1302 or approved substitutes; 6 semester hours from English 2301, 2302, 2303, 2305, 2307, 2308, 2313, 2387, 2388; Eng. 3319 or 4302; 6 hours of advanced English electives from 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3309, 3310, 3311, 3312, 3313, 3317, 3322, 3324, 4301, 4306, 4308, 4309, 4310, 4312, 4316, 4324.

Elementary Plan II: 24 semester hours of English of which 12 must be advanced; must include English 1301 and 1302 or approved substitutes; 6 semester hours from English 2301, 2302, 2303, 2305, 2307, 2308, 2313, 2387, 2388; English 3319 or 4302; 9 hours of advanced English electives from 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3309, 3310, 3311, 3312, 3313, 3317, 3318, 3319 or 4302, 3320, 3322, 3324, 4301, 4306, 4308, 4309, 4310, 4312, 4313, 4314, 4316, 4320, 4324.

Secondary Plan I: 24 semester hours of English of which 12 must be advanced; must include English 1301 and 1302 or approved substitutes; 6 semester hours from English 2301, 2302, 2303, 2305, 2307, 2308, 2313, 2387, 2388; English 4301 and 3319 or 4302; 6 hours of any advanced English electives except 4323.

Major in Mass Communications

(without Teacher Certification):

36 semester hours of Mass Communications of which 18 must be advanced; must include MC 1301, 1302, 1303. Must also include Psychology 2313 or 2323 and Sociology 2313 or 2323.

Major in Mass Communications

(with Secondary Teacher Certification in Journalism):

36 semester hours of Mass Communications of which 18 must be advanced; must include MC 1301, 1302, 1303, 1305, and 3306. Must also include Psychology 2313 or 2323 and Sociology 2313 or 2323.

Minor in Mass Communications

(without Teacher Certification):

18 semester hours of Mass Communications of which 6 must be advanced.

Minor in Mass Communications

(with Secondary Teacher Certification in Journalism):

24 semester hours of Mass Communications of which 12 must be advanced; must include MC 1301, 1302, 1303, 1305, and 3306.

Suggested Curricula

English Major

Freshman Year

Eng 1301, 1302
Math or Lab Sci 6 hours
Art 1301
For Lang 6 hours
Elective 3 hours
Minor 3 hours
P.E. 2 hours

Sophomore Year

Soph Eng 6 hours
Hist 2313, 2314
Govt 2313, 2314
Mus 2307
Elective 3 hours
Minor 3 hours
P.E. 2 hours

Junior Year

Eng 3319, 3312, 3313
Eng elective 3 adv. hours
Minor 6 hours
Electives 15 hours

Senior Year

Eng 4301
Eng electives 9 adv. hours
Minor 6 hours
Electives 15 hours

Mass Communications Major

Freshman Year

Eng 1301, 1302
For Lang 6 hours
MC 1301, 1302, 1303
Lab Sci or Math 6 hours
P.E. 2 hours
Elective 3 hours

Junior Year

Govt 2313, 2314
MC Electives 6 adv. hours
Electives 6 hours
Soc 2313 or 2323
Minor 9 hours

Sophomore Year

Soph Eng 6 hours
Hist 2313, 2314
MC electives 9 hours
Psy 2313 or 2323
Electives 6 hours
P.E. 2 hours

Senior Year

MC Electives 12 adv. hours
Minor 9 hours
Electives 9 hours

Department of Foreign Language

Dr. Charles Beaudry, Head

The Department of Foreign Language consists of the subject areas of French, German, Latin, Portuguese and Spanish.

The Department of Foreign Language offers both a major and minor in Spanish. In addition, it offers courses for students seeking a second teaching field for teacher certification on the elementary and secondary levels. The department also offers a graduate major program leading to the M.A. in Spanish.

General Education Requirements for a Bachelor of Arts Degree in Spanish:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Mathematics or Lab Science	3-4 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL.....43-46 hours

Degree Requirements

Major in Spanish: 30 semester hours in Spanish, of which 15 semester hours must be advanced.
(without certification)

Minor in Spanish: 18 semester hours in Spanish of which 6 semester hours must be advanced.
(without certification)

Teacher Certification in Spanish:

Elementary Plan I: 18-21 semester hours in Spanish, of which nine semester hours must be advanced; must include (a) Spanish 1301, 1302 or 1303, 1304; 2310, 2302; and nine advanced semester hours; or (b) Spanish 2301, 2302; and 18 semester hours, 12 of which must be advanced.

Secondary Plan I: 24 semester hours in Spanish, of which 12 semester hours must be advanced; must include (a) Spanish 1301, 1302, or 1303, 1304; 2301, 2302; and 12 advanced semester hours of Spanish or (b) Spanish 2301, 2302, and 18 semester hours of Spanish, of which 12 semester hours must be advanced.

Suggested Curriculum

Freshman Year

Eng 1301, 1302
Span 1301, 1302, or 1303,
1304, or 2301, 2302
Hist 2313 or 2333, 2314
Math or Lab Sci 3-4 hours
P.E. 2 hours
Electives 9 hours

Junior Year

Span 6-9 adv. hours
Minor 6-9 hours
Electives 3-6 hours

Sophomore Year

Eng (Soph Lit) 6 hours
Span 2301, 2302 (or Soph Span)
6 hours
Govt 2313, 2314
P.E. 2 hours
Electives 12 hours

Senior Year

Span 6-9 adv. hours
Minor 6-9 hours
Electives 3-6 hours

Department of Music

Dr. John D. Anderson, *Head*

The Department of Music offers majors and minors in Applied Music and in Music Education. In addition, it offers teaching areas for majors in both Secondary and Elementary Education. Majors in music ordinarily pursue careers in either professional performance or in teaching.

All majors, in addition to courses in general education and in the theory and literature of music, pursue excellence in performance in their areas of major interest. Instruction is offered in Voice, Piano, Organ, and all of the instruments of the Band and Symphony Orchestra. The Department offers supporting courses for master's degree programs.

General Education Requirements for Bachelor of Arts Degree in Music or Music Education: total hour requirements vary with the program selected by the student.

English 1301, 1302 or 1387, 1388 or 1405, 1406	.....6-8 hours
Sophomore Literature	.....6 hours
Art 1301	.....3 hours
Government 2313, 2314 or 2387, 2388	.....6 hours
History 2313 or 2333, 2314 or 2387, 2388	.....6 hours
Physics 1301	.....3 hours
Foreign Language (French and/or German preferred)	..9 hours
P.E. Activities	.....4 hours
Electives	.....12 hours

TOTAL55-57 hours

Degree Requirements

Major in Music

(Applied Music without Teacher Certification):

51 semester hours in Music of which 23 semester hours must be advanced; including Music 1201, 1202, 1401, 1402, 2401, 2402, 3211, 3301, 3302, 3305, 4201, 4203, 4205; Applied Music: eight semesters, of which four semesters must be advanced; Music Ensemble: eight semesters, of which four semesters must be advanced, and proficiency in Piano. A minor is not required.

Major in Music Education

(with All-Level Teacher Certification):

62 semester hours in Music, of which 29 semester hours must be advanced; including Music 1201, 1202, 1401, 1402, 2121, 2122, 2123, 2124, 2125, 2401, 2402, 3211, 3301, 3302, 3305,

3312, 4201, 4203 or 4205, 4311; Applied Music: eight semesters, of which four semesters must be advanced; Music Ensemble: eight semesters, of which four semesters must be advanced, and proficiency in Piano. Second Teaching Field (Minor) is not required.

Major in Music Education

(with Secondary Level Teacher Certification):

59 semester hours in Music, of which 26 semester hours must be advanced; including Music 1201, 1202, 1401, 1402, 2121, 2122, 2123, 2124, 2125, 2401, 2402, 3211, 3301, 3302, 3305, 4201, 4203 or 4205, 4311; Applied Music: eight semesters, of which four semesters must be advanced; Music Ensemble: eight semesters, of which four semesters must be advanced, and proficiency in Piano. Second Teaching Field (Minor) is not required.

Minor in Music

(Applied Music without Teacher Certification):

26 semester hours in Music, of which 6 semester hours of course work must be advanced and 8 semesters are in performance; including Music 1201, 1202, 1401, 1402; Music Electives: 6 advanced hours; Applied Music: four semesters; Music Ensemble: four semesters.

Minor in Music Education

(with Elementary Level Teacher Certification):

37 semester hours in Music, of which 16 semester hours must be advanced; including Music 1201, 1202, 1401, 1402, 2121, 2122, 2123, 2124, 2125, 3301, 3302, 3311, 3312; Applied Music: four semesters, of which two semesters must be advanced; Music Ensemble: four semesters, of which two semesters must be advanced, and proficiency in Piano.

Standards In Music

No grade below C in any of the required courses in Music will apply toward a degree with a major in Music or Music Education.

Transfer students will be required to validate (by examination) credits earned in Applied Music and Music Theory at other institutions. Failure to pass validation will result in the repetition of courses required to reach proper standards. Precise definition of standards is provided by the department and examination is before a faculty jury.

Music majors and Music Education majors and minors must pass an examination that includes proficiency in piano.

Piano and other instrumental students in Music Education will study Applied Voice a minimum of two semesters.

Music majors will study privately in their areas of concentration during each semester of their enrollment. Examinations in Applied Music (private lessons in Voice and Instruments) are given at the end of each semester before a jury of music faculty members.

Each full-time student must be a member of at least one of the large music ensembles (Band, Choir, Chorus, Symphony Orchestra, or Opera Workshop) each semester during which he is enrolled. Participation in smaller ensembles is encouraged where applicable.

Students enrolled in Applied Music will appear in student recitals at the discretion of their instructors. All students enrolled in Music will attend college recitals and concerts as a part of their required work.

A Music major who selects the performance curriculum will perform one-half of a recital during his junior year and a complete recital during his senior year. A Music major who selects the teacher preparation curriculum will perform one-half of a music recital during his senior year.

Suggested Curricula

Applied Music Major (Minor not required)

Freshman Year

Eng 1301, 1302
Art 1301
Phys 1301
Mus 1401, 1402, 1201, 1202:
Applied Music 4 hours: Music
Ensemble 2 hours
P.E. 2 hours

Junior Year

For Lang 6 hours
Mus 3305, 3211, 3301, 3302:
Applied Music 4 adv. hours:
Music Ensemble 2 adv. hours
Electives 3 adv. Music hours
Electives 3 hours

Music Education Major—All-Level (Minor not required)

Freshman Year

Eng 1301, 1302
Art 1301
Phys 1301
Mus 1401, 1402, 1201, 1202,
2121, 2122: Applied Music 2
hours: Music Ensemble 2 hours
P.E. 2 hours

Sophomore Year

Eng (Soph Lit) 6 hours
Hist 2313 or 2333, 2314
Mus 2401, 2402: Applied Music
4 hours: Music Ensemble
2 hours
P.E. 2 hours
Electives 3 hours

Senior Year

For Lang 3 hours
Govt 2313, 2314
Mus 4201, 4203 or 4205: Applied
Music 4 adv. hours: Music
Ensemble 2 adv. hours
Electives 6 adv. Music hours
Electives 7 hours

Sophomore Year

Eng (Soph Lit) 6 hours
Hist 2313 or 2333, 2314
Mus 2401, 2402, 2123, 2124:
Applied Music 2 hours: Music
Ensemble 2 hours
P.E. 2 hours
Electives 3 hours

Junior Year

Govt 2313, 2314
 For Lang 6 hours
 Mus 2125, 3305, 3301, 3302:
 Applied Music 2 adv. hours:
 Music Ensemble 2 adv. hours
 ED 3302, 3311 or 3312
 Electives 6 hours

Senior Year

For Lang 3 hours
 Mus 3211, 3312, 4311, 4201,
 4203 or 4205: Applied Music
 2 adv. hours: Music Ensemble
 2 adv. hours
 ED 3341 or 3342, 4352, 4641
 Electives 3 hours

Department of Speech and Drama

Dr. Opal T. White, *Acting Head*

The Department of Speech and Drama offers a Bachelor of Arts Degree with majors in Speech and Drama. The department offers minors in Speech and Drama.

Speech students may elect a curriculum for a major in Speech or an Elementary of Secondary Teaching Plan. Drama students may elect a curriculum for a major in Drama or Secondary Teaching Plan.

Students majoring or minoring in Speech may become teachers, or use their work in preparation for such professions as Law, Ministry, Speech Therapy of Pathology, Television, Radio, or Community Services. Courses in the Department such as Parliamentary Procedure, Voice and Phonetics, Fundamentals of Speech, Principles of Discussion, Business and Professional Speech, Speech for the Elementary of Secondary Teachers, Creative Dramatics for the Elementary Teacher form a core of subjects widely used by the other disciplines in the University.

The basic speech courses emphasize intrapersonal and interpersonal communication in an interactive classroom in which the student becomes an active participant rather than a passive recipient of knowledge. Since man is basically an oral communicator, speech courses attempt to formulate the student's basis for friendship, professionalism, and citizenship.

Students majoring or minoring in Drama may prepare for teaching, or for the traditional areas of the theatre such as stage, television, film, and radio. In addition, the dramatic arts are now viable forces in community recreation and theatre, psychological therapy, interpersonal relations, the Church, social services, and politics.

To fulfill the educational needs of students intent on careers in the theatre or in theatre-related professions, it is imperative that they receive training in the total spectrum of the dramatic arts within a liberal arts atmosphere. Thus, the Drama student will be prepared for competent work in the theatre while still maintaining a knowledgeable perspective on the world at large.

Courses such as Acting I and II, Creative Dramatics, and Children's Theatre are of great value to prospective elementary teachers.

General Education Requirements for a Bachelor of Arts Degree in Speech and Drama:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Foreign Language	6 hours
Mathematics or Lab Science	6-8 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL 52-56 hours

Degree Requirements

Major in Speech (without teacher certification):

30 semester hours in Speech, of which 18 semester hours must be advanced.

Minor in Speech:

18 semester hours in Speech, of which 6 semester hours must be advanced.

Teacher Certification in Speech:

Elementary Plan I: 18 semester hours, as follows: Speech 1301, 1302, 1303, 3303, 3304, 3306.

Elementary Plan II: 24 semester hours, as follows: Speech 1301, 1302, 1303, 2303, 3303, 3304, 3306, and 3 hours from 3301, 4308.

Secondary Plan I: 27 semesters hours, as follows: Speech 1301, 1302, 1305, 2303, 2305, 3301, 4306, 4309, and 3 hours from 3308, 4308.

Degree Requirements

Major in Drama

(without teacher certification):

33 semester hours of which 18 semester hours must be advanced; must include Drama 1321 or 1322, 2301, 2303, 2304, 2323, 3311, 3321, 3323, 4301, 4302, 4308.

Minor in Drama:

18 semester hours in Drama of which 6 semester hours must be advanced.

Major in Drama

(with teacher certification):

Secondary Plan I: 33 semester hours of which 18 semester hours must be advanced; must include Drama 1321 or 1322, 2301, 2303, 2304, 2323, 3311, 3321 or 3323, 4301, 4302, 4308, 4309.

Departmental Requirements

Speech 1301, 1302, 1305, plus four hours selected from Drama 1101, 1102, 2101, 2102, 3101, 3102, 4101, 4102.

Suggested Curricula

Speech Major

(With Secondary Teacher Certification)

Freshman Year

Eng 1301, 1302, or 1387, 1388

Hist 2313 or 2333, 2314, or
2387, 2388

For Lang 6 hours

Spee 1301, 1302, 1305

P.E. 2 hours

Electives 3 hours

Junior Year

ED 4352 and 6 adv. hours¹

Spee 3301

Minor 12 hours²

Electives 9 hours

Sophomore Year

Eng (Soph Lit) 6 hours

Govt 2313, 2314 or 2387, 2388

Spee 2303, 2305

P.E. 2 hours

Electives 6 hours

Math or Lab Sci 6-8 hours

Senior Year

ED 4641 and 3 adv. hours¹

Spee 4306, 4309 and 3 adv. hours
from 3308, 4308, and 6 adv.
hours in Speech

Minor 12 adv. hours²

¹Select from ED 3301, 3302, 3303, 3341, 3342, 4351, 4353.

²Minor is a second teaching field.

Drama Major
(With Secondary Teacher Certification)

Freshman Year

Eng 1301, 1302
For Lang 6 hours
Math or Lab Sci 3-4 hours
Spee 1301, 1302
Drama 1321 or 1322
Drama 2301
P.E. 2 hours
Electives 3 hours
Drama 1101 or 1102

Junior Year

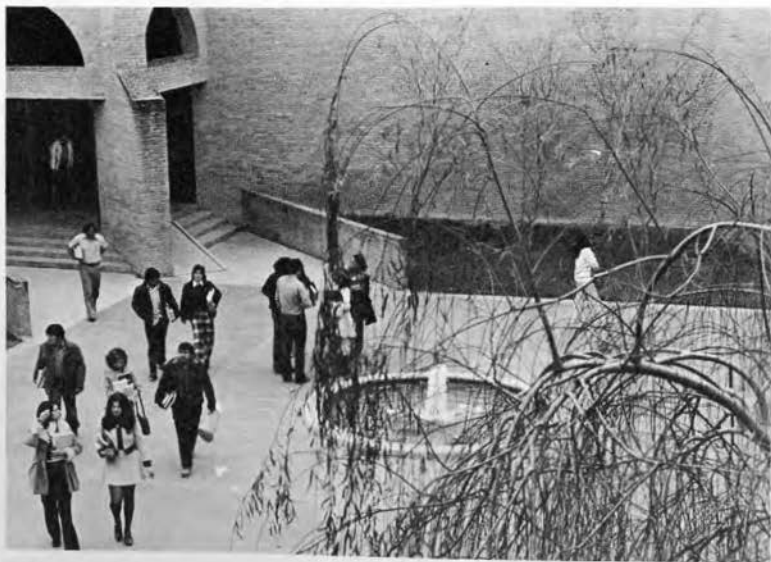
ED 4352 and 6 adv. ED hours
Minor 9 hours
Electives 3 hours
Spee 1305
Drama 3311
Drama 3321 or 3323
Drama 3101 or 3102

Sophomore Year

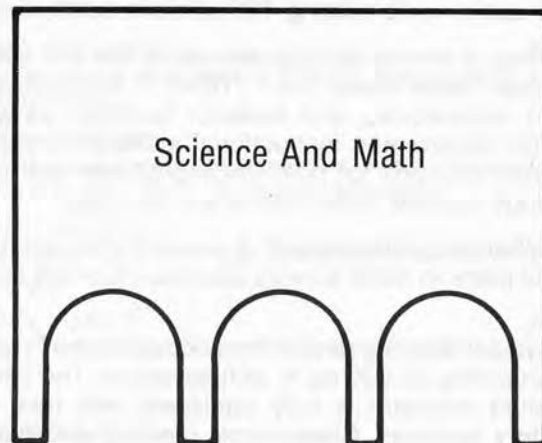
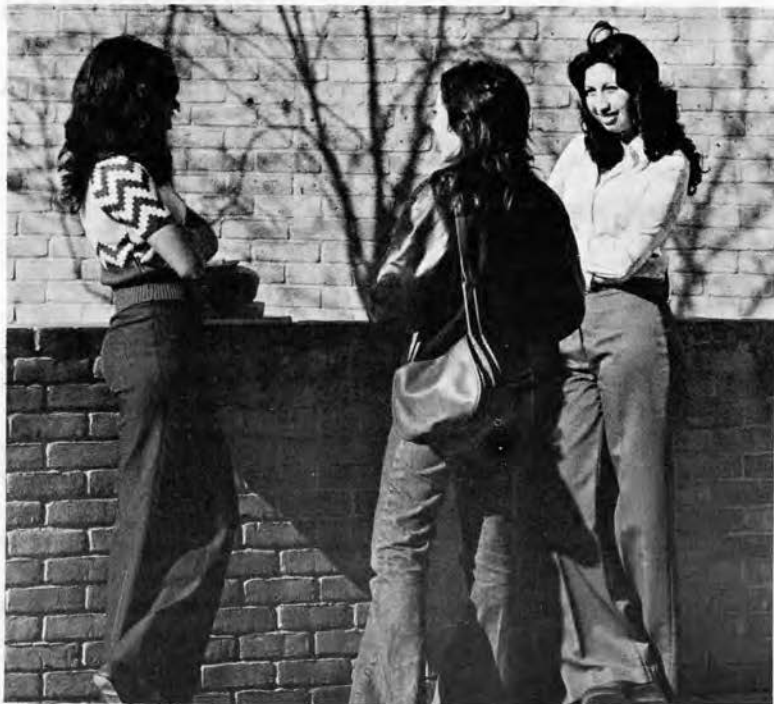
Eng (Soph Lit) 6 hours
Hist 2313, 2314
Govt 2413, 2414
Math or Lab Sci 3-4 hours
P.E. 2 hours
Electives 3 hours
Drama 2303 or 2304
Drama 2323
Drama 2101 or 2102

Senior Year

ED 4641 and 3 adv. ED hours
Minor 9 hours (with 6 adv.)
Electives 3 hours
Drama 4301, 4302, 4308, 4309
Drama 4101 or 4102



The patio of the Science Building (below) provides a meeting place for students between classes. The chemistry laboratory in the Science Building (left) furnishes students with modern equipment with which to experiment and students get instructions during math class in the computer center (far upper left). The beauty of the auditorium portion of the Science Building (far lower left) is enhanced by one of several fountains on campus.



School of Sciences and Mathematics

Dr. Lazern O. Sorensen, *Dean*

The School of Science and Mathematics includes the Departments of Aerospace Studies, Biology, Chemistry, Mathematics, and Physical Science (Astronomy, Engineering, Geology, Physics, and Physical Science).

The School offers the Bachelor of Science degree with a major in Biology, Chemistry, Mathematics, or Physics; and curricula meeting the requirements for premedical, pre dental, and similar preprofessional work.

Minors are offered in all the fields which offer majors and, in addition, a minor is offered in Geology.

Supporting courses are offered in the fields of Astronomy, Engineering and Physical Science.

The Biology and Chemistry departments are housed in the Science Building in a modern 80,000 sq. ft. complex completed in 1969 valued at over \$1.5 million. The two-story, air-conditioned building contains classrooms, darkrooms, research space, faculty and graduate assistant offices, and laboratories. Also included is a large auditorium with seating facilities for 233 persons, and two smaller auditoriums seating 150 persons each.

In addition, a marine biology laboratory has just been completed on South Padre Island. The 7,700 sq. ft. facility has offices, a classroom, laboratories, and research facilities, as well as a large area for aquaria and instructional materials display area. The laboratory sections for both undergraduate and graduate marine biology courses make use of the facilities.

The Mathematics Department is presently housed in Southwick Hall but plans to move to more spacious quarters in the near future.

The Physical Science department occupies the Engineering building containing 25,000 sq. ft. of floor space. The completely air-conditioned structure is fully equipped with new furniture and laboratory facilities. Classrooms, reading and conference

rooms are provided as well as laboratories for astronomy, physics, geology, and physical science, which are used in regular class work and research.

In addition, the astronomy area has a 22-foot Observatory Dome, housing a 17-inch telescope; a well-equipped Planetarium, presenting public and school programs at regular intervals with scheduling by the Region I Education Service Center; a number of smaller telescopes and astronomical cameras housed in separate structures; and office space for the staff.

The faculty of the School of Sciences and Mathematics are particularly well qualified. Of the 49 faculty members in the School, over 53% have the earned doctorate degree in their area of specialization. Many of the faculty have earned graduate hours in their field beyond their earned degrees. All faculty are dedicated to providing the finest education possible to students of Pan American University.

For specific degree requirements and suggested curricula see the departmental areas.

Academic Instructional Staff:

School of Sciences and Mathematics

*ALLISON, TERRYHistory
B.A., Texas Arts and Industries University; M.S., Ph.D., Texas Agricultural and Mechanical University.

BACA, ERNEST J.Chemistry
B.S., College of Santa Fe; M.S., New Mexico Highlands; Ph.D., University of New Mexico.

BATES, NEALGeology
B.A., M.A., Baylor University.

BLACKBURN, HELEN J.Mathematics
B.A., M.S., Southern Illinois University.

*On Graduate Faculty.

- BURANDT, NORMAN A.Physics
B.A., Southern Methodist University; M.S., Texas Arts and Industries University.
- CAMERON, LEONA B.Mathematics
B.A., Texas State College for Women; M.A., Boston College.
- *CHANCE, JOSEPH E.Mathematics
B.A., University of Texas; M.S., Texas Tech University; Ph.D., University of Texas.
- CISNEROS, BALTAZARBiology
B.S., M.S., Pan American University.
- CLOSE, ROBERT A.Mathematics
B.S., U.S. Naval Academy; M.T.M., North Carolina State University.
- COCKRUM, O.D.Biology
B.S., Pan American College; M.S., New Mexico Highlands University.
- CONTRERAS, RAULAerospace Studies
B.A., California State University at San Jose.
- *CROFTS, ALFRED E, JR.Mathematics
B.S., University of Texas; M.S., Ph.D. Southern Methodist University.
- DE LA PENA, ANTONIO M.Biology
B.S., Pan American College; M.S., Texas Arts and Industries University.
- *DRAEGER, SIDNEY S.Mathematics
B.A., M.A., University of Texas.
- *ELLIOTT, J. LELLChemistry
B.A., M.A., Ph.D., University of Colorado.
- ELLIS, FRED E.Astronomy
B.S., M.S., East Texas State University; Ph.D., Louisiana State University.
- ENGLE, PAUL R.Astronomy
B.A., Pan American College; M.A.T., Michigan State University.
- ESTRADA, ANDRESChemistry
B.S., M.S., Texas Arts and Industries University.
- FARMER, CAROL W.Chemistry
B.S., M.S., University of Akron.
- *FOLTZ, VIRGINIABiology
B.S., Baldwin-Wallace; M.S., University of Houston; Ph.D., Texas Woman's University.
- GARZA, GILBERT R.Mathematics
B.S., M.S., Texas Arts and Industries University.
- *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.
- HODGES, DE WAYNE L.Mathematics
B.S., Wayland College; M.S., Texas Tech University.
- *JAMES, PAULINEBiology
B.S., Memphis State; M.S., Ph.D., Cornell University.
- *JUDD, FRANK W.Biology
B.S., Midwestern; M.S., Ph.D., Texas Tech University.
- *LEDMASTER, EDWINPhysical Science
B.S., West Texas State; M.S., Texas Tech University; Ph.D., University of Texas.
- LONARD, ROBERTBiology
B.S.E., M.S., Kansas State Teachers College; Ph.D., Texas Agricultural and Mechanical University.
- LYLES, DONALD J.Biology
B.S., Louisiana Collge; M.S., Louisiana Polytechnic Institute.
- *MARRACH, NAZEM M.Mathematics
B.S., University of Texas; M.S., St. Mary's University; Ph.D., Texas Christian University.
- *McCABE, THOMAS F.Mathematics
B.S., Southwest Texas State; M.S., Ph.D., Texas Agricultural and Mechanical University.
- *ORTEGA, JACOBOBiology
B.S., Escuela Superior de Agricultura, Saltillo, Mexico; M.S., Oklahoma State University; Ph.D., University of Minnesota.
- *OTKEN, CHARLES C.Chemistry
B.S., Texas Agricultural and Mechanical University; Ph.D., Cornell University.
- PONTIUS, PAUL E.Mathematics
B.B.A., University of Texas; M.A., University of Illinois.

*On Graduate Faculty.

*On Graduate Faculty.

- RENO, HARLEY W.**Biology
A.S., Connors State Agriculture College, Oklahoma; B.S., M.S., and Ph.D., Oklahoma State University, Stillwater.
- RODGERS, ROBERT W.**Geology
B.A., M.A., Baylor University.
- ROSELAND, DAVID**Mathematics
B.A., Pan American College; M.S., Stephen F. Austin State College.
- ROSS, RICHARD G.**Biology
B.S., University of Houston; M.A., University of Oregon.
- *SAVAGE, NORMAN L.**Biology
B.A., M.A., North Texas State University; Ph.D., University of Oklahoma.
- *SCHAEFER, MARY GERALDA**Mathematics
B.A., Incarnate Word College; M.A., Catholic University; Ph.D., University of Texas.
- SHOCKLEY, WILLIAM C.**Physics
B.S., M.A., University of Texas.
- *SIDES, SAMMIE L.**Biology
B.S., Tarleton State; M.S., Texas Tech University; Ph.D., North Carolina State University.
- *SORENSEN, LAZERN O.**Biology
B.S., Nebraska State; M.S., Ph.D., University of Nebraska.
- *SPELLMANN, JOHN**Mathematics
B.A., Texas Lutheran; M.A., Ph.D., Emory University.
- STOCKTON, ROBERT S.**Aerospace Studies
A.A., Hannibal LaGrange Junior College; B.S., University of Missouri; M.S., Central Missouri State College.
- VASSBERG, DIANA**Mathematics
B.S., Pan American College; M.S., Texas Arts and Industries University.
- *WARE, WILLIAM S.**Biology
B.S., Ph.D., University of California.

*On Graduate Faculty.

Department of Aerospace Studies

Lt. Col. Kenneth W. Richmond, *Head*

The Air Force Reserve Officer Training Corps (AFROTC) program at Pan American University is designed to develop skills and attitudes vital to professional Air Force officers. The purpose of the program is to commission qualified selected students who desire to serve in the United States Air Force. Students pursue a degree program under any other department of the University. They may earn a maximum of sixteen hours credit in Aerospace Studies courses to apply toward graduation requirements. Any such credits earned must be counted as elective hours.

The program is divided into two courses, the General Military Course (GMC), which comprises the first two years of study, and the Professional Officer Course (POC), which comprises the last two years of study.

The Air Force ROTC at Pan American University offers both a four-year and a two-year commissioning program. Male and female students with four academic years remaining and who desire to enter the four-year program, may do so by registering for Aero. 1100 at registration time. Acceptance will be predicated on aptitude and medical qualifications. Students in the four-year program attend a four-week Field Training (FT) program during the summer following the sophomore year.

Male or female students with two academic years remaining for degree or graduate study purposes may apply for the two-year program. Those applicants who pass the Air Force Officer Qualifying Test (AFOQT), are medically qualified, are in good academic standing in the University, and are selected by the Professor of Aerospace Studies, attend a six-week FT program prior to entry into the POC. Applicants must take the AFOQT prior to May 1st to be eligible for the succeeding summer program. Interested students should verify testing schedules with the Department of Aerospace Studies early in the fall semester.

Prerequisites for entry into the POC are as listed above for selection for the six-week FT program, plus:

- a. satisfactory completion of the six-week FT program for two-year applicants,
or
- b. completion of the GMC and four weeks of FT for the four-year program.

Portions or all of the GMC may be waived if the student has completed courses in high school or college ROTC, attended a service academy, participated in Civil Air Patrol training, or served on active duty.

Uniforms and Aerospace Studies textbooks are provided without cost or deposit to all AFROTC Students. Members of the POC receive \$100.00 per month tax-free subsistence.

Scholarships, which are awarded on a competitive basis, are available under both the two-year and the four-year programs to outstanding students. Applications for four-year scholarships must be made early in the senior year of high school. Qualified students in the first and second years of the AFROTC program may apply during spring semester for a scholarship for the remaining years in the program. Benefits include payment of full tuition, laboratory expenses, incidental fees, textbook costs and provides \$100 monthly non-taxable allowances pay.

A Flight Instruction Program (FIP) which provides 25 hours of flight instruction is available to each senior cadet who is qualified and desires to become an Air Force pilot. Successful graduates gain entry to undergraduate Pilot Training after obtaining the officer commission.

Aerospace Studies courses, only at the freshman and sophomore level, may be substituted for required Physical Education activity courses.

One hour of laboratory is required per semester, which consists of military training and progressive levels of leadership training.

Department of Biology

Dr. S. L. Sides, Head

The Department of Biology offers a Bachelor of Science Degree with a major in Biology. The Department offers a minor in Biology.

Biology students may elect a curriculum for a major in Biology or a Biology elementary or secondary teaching plan.

(The student is expected to furnish his own transportation for all courses requiring laboratory sessions and field work.)

The Department of Biology also offers study beyond the Bachelor's Degree leading to a Master of Science in Biology. A limited number of Teaching Assistantships are usually available. Interested persons should consult the Graduate portion of the catalog or the Head of the Biology department.

General Education Requirements for Bachelor of Science Degree in Biology:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Mathematics of Foreign Language	3-6 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL 43-48 hours

Degree Requirements

Major in Biology:

30 semester hours in Biology, of which 15 semester hours must be advanced; must include Biology 1401, 1402, 4100; at least eight semester hours from Biology 2401, 2402, 2403, 3402, 3404, 3407, 4303, 4402 and at least six semester hours from Biology 3309, 3401, 3408, 4305, 4406, 4408, 4410.

Biology majors who are pre-dental or pre-medical students should include Biology 2402 in their major, should minor in Chemistry, and should include in their programs: Chemistry 2401, 3401, 3501; Physics 1401, 1402; Psy. 2313; and Math 1318, 1319. (Math not required for admission to dental school.)

Minor in Biology:

Eighteen semester hours in Biology, of which six semester hours must be advanced.

Teacher Certification in Biology:

Elementary Plan I: 18 semester hours, at least nine of which are advanced. Biology 1305, 1306, or 1401, 1402; 2401 or 2402, or 2403; 3309 or 3408 or 4410 plus additional advanced hours in biology to total 18.

Elementary Plan II: 24 semester hours, at least 12 of which are advanced. Biology 1305, 1306 or 1401, 1402; 2401 or 2402 or 2403; 3309 or 3408 or 4410 plus additional advanced hours to total 24.

Secondary Plan I: 24 semester hours, at least 12 of which are advanced. Biology 1401, 1402; 2401 or 2402 or 2403; 3309 or 3408 or 4410 plus additional advanced hours to total 24.

Suggested Curricula

Biology Major

Freshman Year

Eng 1301, 1302
Biol 1401, 1402
For Lang or Math 3 hours¹
Hist 2313 or 2333, 2314
P.E. 2 hours
Electives 6 hours

Junior Year

Biol 8 adv. hours²
Electives 15-18 hours
Minor 6 hours

Sophomore Year

Biol 7-9 hours
Govt 2313, 2314
Eng (Soph Lit) 6 hours
Minor 6 hours
Electives 6 hours
P.E. 2 hours

Senior Year

Biol 4100 and 6-8 adv. hours²
Minor 6 adv. hours
Electives—to make a total of 124 hours of which 36 must be advanced.

¹The 3 hours may be chosen from either field.

²At least 8 semester hours from Bio 2401, 2402, 2403, 3402, 3404, 3407, 4303, or 4402, and at least 6 semester hours from Bio 3309, 3401, 3408, 4305, 4406, 4408, or 4410.

Biology Major (Premedical or Predental) (Chemistry Minor)

Freshman Year

Eng 1301, 1302
Biol 1401, 1402
Chem 1401, 1402
Math 1318, 1319¹
Elective 3 hours
P.E. 2 hours

Junior Year

Biol 12 hours²
Chem 3401, 3501
Govt 2313, 2314
Electives 6 hours

Sophomore Year

Chem 2401
Biol 2402
Eng (Soph Lit) 6 hours
Phys 1401, 1402
Hist 2313 or 2333, 2314
Electives 3 hours
P.E. 2 hours

Senior Year

Biol 4100
Additional Biol hours to make a total of 30 hours (with at least 15 adv.)³
Electives to make a total of 124 hours (with at least 36 adv.)

¹Math not required of admission to Dental School.

²At least 8 semester hours from Bio 2401, 2402, 2403, 3402, 3404, 3407, 4303, or 4402, and at least 6 semester hours from Bio 3309, 3401, 3408, 4305, 4406, 4408, or 4410.

³Predental students not electing to take Math must complete general education requirements by selecting at least 3 hours from a foreign language.

Department of Chemistry

Dr. Ernest Baca, Acting Head

The Department of Chemistry offers a major and a minor in chemistry.

In addition to a program of study for those students interested in the profession of chemistry, the department also offers a program for predental and premedical students which leads to the Bachelor of Science Degree in Chemistry.

The Department of Chemistry also has a plan of study for pre-pharmacy students and for students interested in teacher certification. The departmental course offerings also serve as supporting courses for other majors that require a knowledge of Chemistry.

The laboratories of the Chemistry department are well equipped for undergraduate chemistry courses. In addition to the formal laboratory work offered in the department, the Chemistry major may choose to work on an independent research project under the supervision of a faculty member.

General Education Requirements for Bachelor of Science Degree in Chemistry:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore Literature	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Mathematics or Foreign Language	3 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL43-45 hours

Degree Requirements

Chemistry majors should include eight semester hours of Physics, eight semester hours of Biology and C.S. 1309 in their programs. Students who expect to do graduate work should take two years of French or German.

Major in Chemistry:

31 or 32 semesters of chemistry; must include Chemistry 2401, 3301, 3401, 3402, 3501, 4401, 4402 and one from 3403, 4301, 4302, 4403, and Mathematics 1318, 1319, and 2305.

NOTE: Chem 1402 or its equivalent under CEEB or CLEP is a prerequisite for all other courses in Chemistry.

Major in Chemistry with Biology Minor (Pre dental or Pre medical):

Same as a major in Chemistry (above) and must also include: 18 semester hours in biology, including Biology 1401, 1402, 2402, and six advanced semester hours, Physics 1401, 1402.

Minor in Chemistry:

18 semester hours of which 6 must be advanced.

Teacher Certification in Chemistry:

- Elementary Plan I: 18 semester hours in Chemistry of which 9 must be advanced.
- Elementary Plan II: 24 semester hours in Chemistry of which 12 must be advanced.
- Secondary Plan I: 24 semester hours in Chemistry of which 12 must be advanced.

Suggested Curriculum

Prepharmacy

Freshman Year

- Biol 1401, 1402
- Chem 1401, 1402
- Eng 1301, 1302¹
- Math 1304, 1305 or 1318, 1319²
(if eligible)
- Hist 2313, 2314
- P.E. 2 hours

Sophomore Year

- Eng (Soph Lit) 6 hours
- Chem 3401, 3501
- Phys 1401, 1402
- Eco 1301
- Govt 2313, 2314
- P.E. 2 hours

A knowledge of typing is expected.

¹University of Houston requires only 3 hours in freshman English.

²Students planning to transfer to the University of Texas should take Chem 2401, Math 1318, 1319 and may substitute Eng 2309 or Spee 3301 for one semester of sophomore literature.

Chemistry Major

(Physics or Mathematics Minor)

Freshman Year

- Eng 1301, 1302 or 1387, 1388
or 1405, 1406
- Chem (2 semesters) 8 hours
(with 4 adv.)¹
- Phys 1403 (if minor)
- Math 1318, 1319, and 2305
- P.E. 2 hours
- Electives 3 hours²
- Electives 4 hours

Sophomore Year

- Eng (Soph Lit) 6 hours
- Chem 8 hours (with 4 adv.)
- Phys 2401, 2402 (if Minor) or
Math
- Math 3300 (if minor)
- Hist 2313 or 2333, 2314
- P.E. 2 hours
- Electives 3-8 hours (depending
on minor)²

Junior Year

Chem (2 semesters) 8 adv. hours
 Math 3 hours of Physics 3402
 Govt 2313, 2314
 Electives 8 adv. hours²
 Electives 6 hours

Senior Year

Chem (2 semesters) 8 adv. hours
 Physics or Math 3 adv. hours
 Electives 3 adv. hours²
 Electives 11 hours
 Electives 3 hours

¹Students without the Chem 1402 prerequisite should take Chem 1401, 1402 the first year.

Normal sequence in Chemistry for those students with the Chem 1402 prerequisite is Chem 2401, 3402 followed by any of the other required chemistry with Chem 4401, 4402 given usually in alternate years.

²Of the 37-50 elective hours, 12 are free and may be taken in any subject field desired, subject only to prerequisites; the remainder may be from some or as many of the following suggestions as necessary to complete 124 hours for graduation: 8 hours of Biol, 6-12 hours of For Lang, 8-12 hours of Phys for Math minors Eng 2309, CS 1309, Art 1301, Mus 2307, Chem 1401 and Chem 1402.

Department of Mathematics

Sidney Draeger, Head

The Department of Mathematics offers both a major and minor in Mathematics. In addition, it offers courses for students seeking a second teaching field for teacher certification. Students majoring or minoring in Mathematics may become teachers or may go to work in either industry or government.

An undergraduate specializing in Mathematics begins with a study of Calculus or sometimes Algebra with Trigonometry. Well-prepared students are encouraged to establish credit in elementary courses by passing advanced standing examinations.

All majors should take courses in Calculus, Statistics and Linear Algebra. The remainder of the courses depends upon the students' interest and future plans. Students are encouraged to acquire proficiency in Computer Programming and to take substantial work in the related fields in which they have an interest.

Many of the more challenging positions in Mathematical Sciences require further study beyond a Bachelor's Degree. The department offers a Master of Science degree for interested students.

General Education Requirements for Bachelor of Science Degree in Mathematics:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore English	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313, or 2333, 2314, 2387, 2388	6 hours
Lab Science	8 hours
Computer Science	3 hours
P.E. Activities	4 hours
Electives	12 hours

TOTAL.....51-53 hours

Degree Requirements

Major in Mathematics

(without Teacher Certification):

33 semester hours of Mathematics of which 18 must be advanced; must include Math 1312, 1318, 1319, 2304, 2305, 4310, 3308 or 4308 and six hours selected from Math 4303, 4304, 4312, 4315.

Major in Mathematics

(with Teacher Certification):

33 semester hours of Mathematics of which 18 must be advanced; must include Math 1312, 1318, 1319, 2304, 3304, 3306, 4310, 4304. The remaining hours should be selected from Math 2305, 3303, 3308, 4313.

Minor in Mathematics

(without Teacher Certification):

18 semester hours of Mathematics of which 6 must be advanced; must include Math 1312, 1318, 1319, 2305.

Minor in Mathematics

(with Teacher Certification):

Elementary Plan I: 18 semester hours in Mathematics, of which 9 must be advanced; must include Math 1312, 1318, 1319.

Elementary Plan II: 24 semester hours in Mathematics, of which 12 must be advanced; must include Math 1312, 1318, 1319.

Secondary Plan I: 24 semester hours in Mathematics, of which 12 must be advanced; must include Math 1312, 1318, 1319, 3304, 3306.

Suggested Curriculum

Mathematics Major

Freshman Year

Math 1312, 1318
Eng 1301, 1302
Hist 2313, 2314
C.S. 1309
Phys or Chem 1401, 1402
P.E. 2 hours

Junior Year

Math 4310
Math 6 adv. hours
Minor 6 hours
Minor 3 adv. hours
Electives or Ed 12 hours
Elective 3 hours

Sophomore Year

Math 1319, 2304, 2305
Soph Eng 6 hours
Govt 2313, 2314
Minor or electives 9 hours
P.E. 2 hours

Senior Year

Math 9 adv. hours
Minor 3 adv. hours
Electives 9 hours
Electives or Ed 9 hours

The department offers a combination degree in physics and engineering in cooperation with Columbia University in New York City and, tentatively, with Texas A&M University, University of Texas, and University of Houston. This combination degree is called a 3-2 Program, because a student majors in physics for 3 years at Pan American University then transfers to one of the above universities and completes 2 years of study in an engineering curriculum. Upon successful completion, he receives a Bachelor's Degree in physics from Pan American and a Bachelor's Degree in engineering from the second university. Further details are available from the department chairman.

All indications are that future needs for trained manpower in the physical sciences and engineering will be much greater than the expected production. This insures graduates of many choices of job opportunities, as well as attractive starting salaries.

Astronomy

Students majoring in astronomy will have until May, 1976, to complete the degree requirements in their major under the catalog in effect at the time the astronomy major was offered. No new astronomy majors or minors will be accepted.

Department of Physical Science

Dr. Edwin W. LeMaster, Head

The Department of Physical Science offers a major in physics and minors in physics and geology.

There are secondary and elementary teaching fields in physics and in earth science. The department also offers courses in subject areas of astronomy, engineering, geography and physical science.

Engineering

Pan American University does not offer a degree in engineering. Each student who plans to do his first two years of work at Pan American must obtain a catalog from the engineering school to which he plans to transfer and arrange his courses accordingly. The 3-2 Program allows a student to do three years work at Pan American University and obtain a degree from both Pan American University and the engineering school he attends. Students electing the 3-2 plan are also eligible for participation in the co-op program at the engineering school he plans to attend.

Geology

The geology minor is compatible with major fields of study in physics, chemistry, education, biology, engineering, and business.

General Education Requirements for Bachelor of Science Degree in Physics:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
English 2309 and Sophomore English 3 hours	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Science	8 hours**
Mathematics	3 hours**
P.E. Activities	4 hours
Electives	12 hours

TOTAL51-53 hours

**These requirements are satisfied in the physics major and required supporting math courses.

Degree Requirements

Minor in Geology:

20 semester hours in geology, of which eight semester hours must be advanced; must include: Geology 1401, 1402, 2402, 3401, 3402.

Teacher Certification in Geology:

Elementary Plan II: 24 semester hours in geology, of which nine semester hours must be advanced; must include Geology 1401, 1402, 2401 or 2402, 3401, 3402 and 3403.

Secondary Plan I: May be counted as second teaching field only. 24 semester hours in geology, of which nine semester hours must be advanced; must include Geology 1401, 1402, 2401 or 2402, 3401, 3402 and 3403.

Students are expected to furnish their own transportation and expenses on field trips.

Major in Physics:

36 semester hours in physics, of which 24 semester hours must be advanced; must include Physics 1401, 1402, 2301, 2101, 3101, 3102, 3402, 4101, 4102, and 16 advanced hours. Mathematics 1318, 1319, 2305, 3300, and 3301 are required. The following mathematics courses are recommended: Math. 4307, 4308, 4310, 4311, (only one of these required to complete math minor). Computer Science 1309 is recommended.

Students who believe themselves deficient in math, even though they have completed all the high school required math, should take Math 1312 as a refresher.

Since 15 hours of math are required, most students will take a minor or second major in mathematics. Those electing a minor other than math must present 18 hours, including six advanced hours.

Minor in Physics:

18 semester hours in physics of which six semester hours must be advanced; must include Phys 1401, 1402, 2301, 2101, and 3402.

Teacher Certification in Physics:

Elementary Plan I: 21 semester hours in physics, of which 9 semester hours be advanced; must include Phys 1401, 1402, 2301, 2101, and 3402.

Elementary Plan II: 24 semester hours in physics, of which 12 semester hours must be advanced; must include Phys 1401, 1402, 2301, 2101, and 3402.

Secondary Plan I: 24 semester hours in physics, of which 12 semester hours must be advanced; must include Phys 1401, 1402, 2301, 2101, and 3402.

NOTE: Physics 1405, 1406 will not count toward a major or minor in physics. Physics 4304 may be counted only toward a major or minor when part of an approved teacher certification program with physics as a teaching field.

Suggested Engineering Program

Freshman Year

Eng 1301, 1302
Phys 1401, 1402
Math 1318*, 1319
Chem 1401, 1402
Engr 1201
C.S. 1309
P.E. 2 hours

Sophomore Year

Eng (Soph Lit) 3 hours, and 2309
Engr 2303, 2304
Hist 2313, 2314
Math 2305, 3301
Electives 3 or 4 hours
Phys 3402**
Chem 2401**
P.E. 2 hours

Summer

Govt 2313, 2314
Math 1319 (if not taken as Freshman).

*Students not having a strong background in math should take Math 1312 before Math 1318.

**Chemical and Petroleum Engineering students should take Chem. 2401; others should take Phys. 3402.

Suggested Curricula

Physics Major

Freshman Year

Eng 1301, 1302
Phys 1401, 1402
Math 1318, 1319
Hist 2313 or 2333, 2314
Elective 3 hours
P.E. 2 hours
CS 1309

Junior Year

Phys 3101, 3102 and 8 adv. hours
Math 9 hours¹ (with 6 adv.)
Elective 3 hours
Chem 8 hours

Sophomore Year

Eng 2309 and Soph Eng 3 hours
Math 2305, 3300 and 3301
Phys 2301, 2101, 3402
Govt 2313, 2314
Elective 3 hours
P.E. 2 hours

Senior Year

Phys 4101, 4102 and 8 adv. hours
Math 9 adv. hours¹
Electives 7 hours

1. Three hours are required for a minor in mathematics (Six advanced hours from math or any other field must be completed to satisfy the 36 advanced hours requirement.)

Note: A second major in mathematics requires 33 hours with 18 advanced hours. No minor is required for double majors.

A minor other than mathematics could be selected. This would require 18 hours (including six advanced hours) from the minor field.

Suggested 3-2 Plan

Freshman Year

Eng 1301, 1302
Phys 1401, 1402
Math 1318, 1319
Chem 1401, 1402
Engr 1201
CS 1309
P.E. 2 hours

Junior Year

Phys 8 adv. hours
Math 6 adv. hours
Govt 2313, 2314
Electives 12 hours

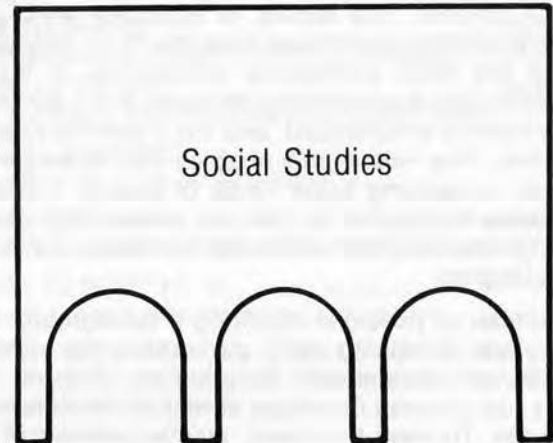
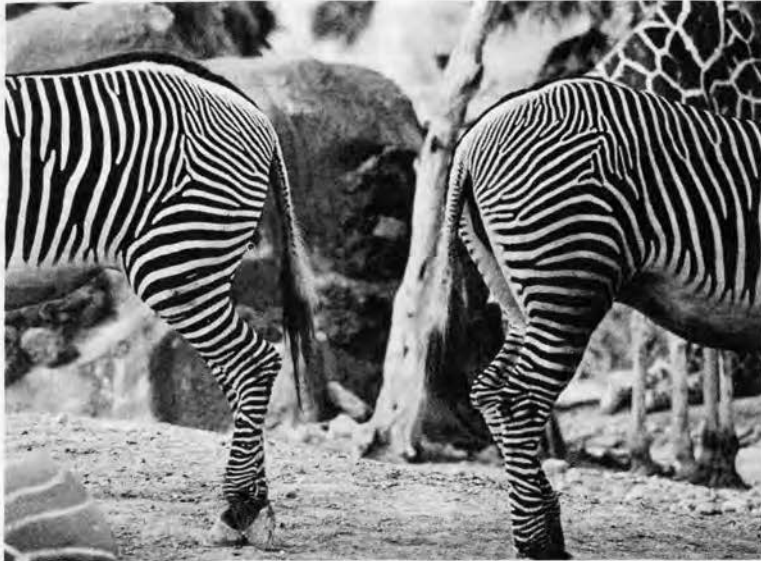
Sophomore Year

Eng (Soph Lit) 3 hours and 2309
Engr 2303, 2304
Hist 2313, 2314
Math 2305, 3301
Phys 2301, 2101, 3402
P.E. 2 hours

TRANSFER BACK FROM ENGINEERING SCHOOL: Advanced courses in engineering that will substitute for 12 advanced physics hours.

The new Queen Isabella causeway connecting Port Isabel to South Padre Island (below) was built at a cost of \$12 million. Although no longer in use, the Lighthouse in Port Isabel (right) remains a famous Texas landmark. Two zebras (upper far right) at Brownsville's Gladys Porter Zoo, take their turn at guard duty. Palm tree-lined U. S. Highway 281 south (below far right) depicts the semi-tropical climate of the Valley.





School of Social Sciences

Dr. T. Lawrence White, *Dean*

The School of Social Sciences is composed of the Departments of Behavioral Sciences, History and Political Science.

Behavioral Sciences is a relatively new department, but is expanding both its faculty and course offerings very rapidly to meet the increasing need of graduates in the important fields of Psychology and Sociology. In addition to the majors and minors available, courses in Anthropology are being introduced for the first time. Pan American's unique location in proximity to Northern Mexico with its almost limitless potential for Anthropological field work, will undoubtedly cause a rapid increase in the number of course offerings and eventually a major.

Due to the increasing complexity and tensions of life, many potential positions of employment for graduates of this department will require training beyond the Bachelor's level. Planning is now being done which should hopefully lead to a Master's degree in the not too distant future.

The Department of History offers a full and well balanced selection of courses. The faculty is unusually well qualified, and an overwhelming percentage have the Ph.D. degree earned at some of the most prestigious universities in the nation. Quite logically and appropriately Mexican and Latin American History are heavily emphasized, and the proximity to Mexico is fully exploited. This most surely enables Pan American University to excel in teaching these fields of History. Likewise, our location makes it possible to offer an outstanding program in Mexican American Studies, which can constitute a minor on the Bachelor's Degree.

The number of positions requiring a background of Political Science are increasing daily, particularly the expansion of all branches of Government. In addition, Political Science courses, as just courses or minors or majors become more and more valuable. To meet this need, the Department of Political

Science has steadily increased both its faculty and course offerings. Also, this department has two additional unique and very valuable programs; i.e., Community Services and Law Enforcement Science. Both have had phenomenal growth, and there is much proof that each is meeting an increasing need, although there are waiting lists for the employment of our graduates.

There is little doubt that in the near future a Master's degree will be available to those students who wish to increase their competency.

Academic Instructional Staff: School of Social Sciences

- *ALVIREZ, DAVIDSociology
B.A., Southwestern University; M.Th., Southern Methodist University;
M.A., Ph.D., University of Texas at Austin.
- ANZALDUA, HERMILACommunity Services
B.A., Pan American College; M.S.W., The Worden School of Social
Services.
- BEACHUM, WILLIAM B.Government, History
B.A., M.A., Southern Methodist University.
- BEHLAR, PATRICIA A.Political Science
B.A., L.S.U., New Orleans; M.A., Ph.D., L.S.U., Baton Rouge.
- BENAVIDEZ, LUCIANOCommunity Services
B.S., Southern Colorado State College; M.S.W. degree in Social Work,
University of Utah.
- *CAIN, ROYPsychology
B.S., University of Houston; M.A., Ph.D., Texas Tech University.
- CARTER, DAVID L.Political Science
B.A., M.S., Central Missouri State University.
- CHAPA, LORNA ASAIPolitical Science
A.A., Bronx Community College; B.A., City College, New York, M.A.,
University of Chicago.

*On Graduate Faculty.

- CHAVIRA, JUAN ANTONIO Behavioral Science
B.A., University of Houston; M.A., University of Texas at Austin.
- *CLARK, THEODORE R. History, Philosophy
B.A., Mississippi College; B.D., Th.M., Th.D., New Orleans Baptist
Theological Seminary.
- CRUZ, GILBERT History
B.A., M.A., St. Mary's University; Ph.D., St. Louis University.
- *DAVIDSON, RONDEL V. History
B.A., McMurry College; M.A., Ph.D., Texas Tech University.
- *FLACCUS, ELMER Government, History
A.B., M.A., Washington and Jefferson College; Ph.D., University of
Texas.
- HALL, HARRY H. Government, History
A.B., California State; M.A., American University of Beirut.
- *IRBY, JAMES A. History
B.A., Southern Methodist University; M.A., University of Texas; Ph.D.,
University of Georgia.
- *KENDRICK, SHERRILL Psychology
B.A., M.A., North Texas State University; Ph.D., University of Mississippi.
- *LEE, KUO-WIO Government
B.Laws, National Chengchi University; M.A., Ph.D., University of Oregon.
- *LEVINE, BERT D. Psychology
B.S., Long Island University; M.A., Ph.D., University of Texas.
- *MILLER, HUBERT J. Sociology, History
B.A., Rollins; M.A., University of Kentucky; Ph.D., Louisiana State
University.
- *MONTGOMERY, GARY Behavioral Science
B.A., University of Texas at Austin; M.A., University of Iowa; Ph.D., Texas
Tech University.
- MORGAN, GLYNN R. Government
B.A., M.A., University of Mississippi.
- MOUNCE, GARY J. Political Science
B.A., Oklahoma State University; M.A., University of California, Berkeley.
- *NOYES, LILLIAN FRANCES Government
B.A., Radcliffe College; M.A., Southern Methodist University; Ph.D.,
University of Texas.
- *POLINARD, JERRY Government
B.A., M.A., Texas Arts and Industries University; Ph.D., University of
Arizona.
- POWERS, BONNIE History, Dean of Women
B.S., M.Ed., Sam Houston State Teachers College
- PRATHER, CHARLES T. Social Studies
B.A., M.A., North Texas State University.
- REED, ZELMA DOLORES Behavioral Science
B.A., M.S., Oklahoma State University.
- RUDER, VALERIE GAIL Behavioral Science
B.S., Bethany Nazarene College; M.S., Oklahoma State University.
- *STRATTON, PORTER A. History
B.A., University of New Mexico; M.A., Eastern New Mexico University;
Ph.D., Texas Tech University.
- TALLANT, JOSEPH S. . . Business Administration, Government
B.A., M.A., J.D., University of Texas.
- *TRIPP, CHARLES J. Government
B.A., University of Wyoming; M.A., Colorado State University; Ph.D.,
Wayne State University.
- TROTTER, ROBERT T. Behavioral Science
B.A., University of Nebraska; M.A., Southern Methodist University.
- *VASSBERG, DAVID History
B.A., M.A., Ph.D., University of Texas at Austin.
- *WELCH, RAYMOND P. Social Studies
B.A., University of Buffalo; A.M., Ph.D., University of Pennsylvania.
- WELLER, LE GRAND J. Social Studies
B.A., Louisiana State University; A.M., Duke University.
- *WHITE, T. LAWRENCE History
B.A., M.A., Ph.D., University of Texas.
- *WILSON, JOE Government, History
B.A., Florida Southern College; M.A., Ph.D., University of Georgia.
- WISENER, ROBERT H., III Psychology
B.A., M.A., Texas Tech University.
- *WRINKLE, ROBERT D. Political Science
B.A., Texas College of Arts and Industries; M.A., Texas Tech University;
Ph.D., University of Arizona.

*On Graduate Faculty.

*On Graduate Faculty.

Department of Behavioral Sciences

Dr. David Alvarez, *Head*

The Department of Behavioral Sciences offers programs of study which seek to understand the philosophical, psychological, and social dimensions of human existence. A major and a minor are offered in both psychology and sociology while a minor is available in philosophy. In addition, psychology and sociology each offer courses for students seeking a second teaching field for teacher certification.

A demand exists for undergraduate sociology and psychology majors in public and private agencies dealing in human relations. However, the more challenging and specialized fields in psychology and sociology usually require further study beyond the Bachelor's Degree. High academic standards are required of those students planning to do graduate work.

A student majoring in psychology or sociology should demonstrate competence in the scientific method, logical and systematic interpretation, and humanitarian concerns. For example, training in research methods, statistics, and theory are required of all majors. Psychology majors, according to their own interests, take further courses in the areas of clinical, experimental, and social and developmental psychology. Sociology majors take courses in the areas of stratification and minorities, demography, anthropology, deviant behavior, family, and social psychology.

General Education Requirements for Bachelor of Arts Degree in Psychology or Sociology:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore English	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
P.E. Activities	4 hours
Mathematics, Lab Science or Foreign Language	12 hours
(From two of the three fields)	
Advanced Electives	15 hours
Non-Advanced Electives	9 hours
Electives	12 hours

TOTAL76-78 hours

Degree Requirements

Major in Psychology:

30 semester hours in psychology of which 15 hours must be advanced; must include Psy. 1313, 1323 or 2387, 2301, 2325, 3343, 4313.

Minor in Psychology:

18 semester hours in psychology of which 6 must be advanced; must include Psy. 1313 and 1323 or 1387.

Teacher Certification in Psychology:

Elementary Plan I: 18 semester hours of Psychology of which 9 hours must be advanced. Psy. 1313, and 1323 or 2387 are required.

Elementary Plan II: 24 semester hours in Psychology of which 12 hours must be advanced. Psy. 1313, and 1323 or 2387 are required.

Secondary Plan I: 24 semester hours in Psychology of which 12 hours must be advanced Psy. 1313, and 1323 or 2387 are required.

Major in Sociology:

30 semester hours in Sociology of which 15 hours must be advanced; must include Soc. 1313, 1323, 2301, 3301 and 4333.

Minor in Sociology:

18 semester hours in Sociology of which 6 hours must be advanced; must include Soc. 1313, 1323, and either 3301 or 4333.

Teacher Certification in Sociology:

Elementary Plan I: 18 semester hours of Sociology of which 9 hours must be advanced. Soc. 1313 and 1323 are required.

Elementary Plan II: 24 semester hours of Sociology of which 12 hours must be advanced. Soc. 1313, 1323, 2333, and 4313 are required.

Minor in Philosophy:

18 semester hours in Philosophy, of which 6 hours must be advanced; must include Phil. 2313 or 2323, and 2343.

Independent and Interdisciplinary Study in Philosophy:

Open to students who have completed at least two semesters of philosophy with a minimum grade point average of B and the consent of the instructor and the department head. Those enrolled in the course will engage in serious directed research and participate in periodic colloquia arranged by the instructors in charge.

Suggested Curricula

Psychology Major

Freshman Year

Eng 1301, 1302 or 1387, 1388
or 1405, 1406
Hist 2313 or 2333, and 2314
or 2387, 2388
Math (except 1314) 3 hours
For Lang, Math or Lab Sci'
P.E. (if required)
Soc 1313, 1323 or 2387

Junior Year

Psy 3 hours
Psy 3343
Psy 3 adv. hours
Minor 6 hours
Elective 3 hours
Electives 6 adv. hours

Sophomore Year

Soph Eng 6 hours
Govt 2313, 2314 or 2387, 2388
For Lang, Math or Lab Sci'
P.E. (if required)
Minor 3 hours
Psy 2301
Psy 3 hours
Elective 3 hours

Senior Year

Psy 4313
Psy 6 adv. hours
Minor 6 adv. hours
Electives 3-6 hours
Electives 9 adv. hours

Sociology Major

Freshman Year

Eng 1301, 1302 or 1387, 1388
or 1405, 1406
Hist 2313 or 2333 and 2314
or 2387, 2388
Math (except 1314) 3 hours
For Lang, Math or Lab Sci'
P.E. (if required)
Soc 1313, 1323

Junior Year

Soc 3301
Soc 3 hours
Soc 3 adv. hours
Minor 6 hours
Electives 6 hours
Electives 9 hours (with 6 adv.)

Sophomore Year

Soph Eng 6 hours
Govt 2313, 2314 or 2387, 2388
For Lang, Math or Lab Sci'
P.E. (if required)
Soc 2301
Soc 3 hours
Minor 3 hours
Elective 3 hours

Senior Year

Soc 4333
Soc 6 adv. hours
Minor 6 adv. hours
Elective 3 hours
Electives 12 hours (with 9 adv.)

¹A total of 12 hours from 2 of the 3 fields is required.

Department of History

Dr. Porter A. Stratton, *Head*

The Department of History offers both a major and a minor in history. In addition, it offers courses for students seeking a second teaching field for teacher certification. Students majoring or minoring in history may become teachers or seek employment in business or government. History is excellent background for those who wish later to go to law school or enter journalism.

Beginning history majors are urged to take *Civilization Through the Centuries*, *American Heritage*, and *Texas history* early in their academic career. Well-prepared students are encouraged to establish credit in some of these beginning courses by passing advanced standing examinations.

The department also welcomes non-history majors who may wish to take interesting courses in Mexican-American Heritage, Modern Russia, or a wide assortment of courses in Latin American, American, and European history.

General Education Requirements for a Bachelor of Arts Degree in History:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore English	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
P.E. Activities	4 hours
Mathematics, Lab Science or Foreign Language	12 hours
(From two of the three fields)	
Electives	12 hours
TOTAL	46-48 hours

Degree Requirements

Major in history

(without Teacher Certification):

30 semester hours in history. Must include Hist. 1333, 1334, 2313*, 2314*, and 2333. Fifteen advanced hours required, and must include at least three semester hours from each of the three fields of American, European, and Latin American history.

Major in history

(with Teacher Certification):

30 semester hours in history. Must include Hist. 1333, 1334, 2313*, 2314*, and 2333. Must include 15 advanced semester hours with three semester hours from each of the three fields of American, European, and Latin American history.

Minor in history

(without Teacher Certification):

18 semester hours of which 6 must be advanced. Must include 1333 or 1334, 2313*, and 2314*, and 2333.

Minor in history

(with Teacher Certification):

Elementary Plan I: 21 semester hours in history, must include Hist. 1333 or 1334, 2313*, 2314*, 2333 and 9 advanced semester hours with 3 semester hours from each of the American, Latin American and European fields of history.

Elementary Plan II: 24 semester hours in history, of which 12 semester hours must be advanced; must include Hist. 1333 or 1334, 2313*, 2314*, 2333 and 3 advanced semester hours from each of the three fields: American, Latin-American and European history.

Secondary Plan I: 24 semester hours of history, of which 12 semester hours must be advanced; must include Hist. 1333 or 1334, 2313*, 2314*, 2333 and 3 advanced semester hours from each of the three fields: American, Latin-American and European history.

History majors and minors may elect Teacher Certification in Social Science:

Secondary Plan II: 48 semester hours in the social sciences. Must include Hist. 2313*, 2314*, 2333; Govt. 2313, 2314; Eco. 2351; Geog. 2313 or 2301; and Soc. 2313. 24 semester hours must be divided among advanced History and Government courses with not fewer than nine semester hours in each field.

*Honors Hist 2387, 2388 may be substituted for Hist 2313, 2314

Suggested Curriculum

History Major

Freshman Year

Hist 1333 and 1334
Hist 2313 and 2314 or 2387 and 2388
Eng 1301 and 1302 or 1387 and 1388 or 1405 and 1406
For Lang, Math or Lab Sci¹
P.E. (if required)
Minor field

Junior Year

Adv. Hist from Amer, Latin Amer, European fields
Minor adv. hours
Electives 6 adv. hours

Sophomore Year

Hist 2333
Govt 2313 and 2314 or 2387 and 2388
Soph Eng 6 hours
For Lang, Math or Lab Sci¹
P.E. (if required)
Minor
Electives

Senior Year

Adv. Hist
Minor
Electives
Recommended electives 9 adv. hours

¹A total of 12 hours from 2 of the 3 fields are required.

Mexican-American Studies

This is an interdisciplinary program taught by the faculty of the departments of History, Foreign Languages, and Behavioral Sciences which is aimed at giving the Mexican-American student a more appreciable understanding of the heritage of his ancestry and its contributions to his present environment.

Mexican-American studies offers a minor only, but it is a minor which offers excellent support for majors in Spanish or the Social Sciences as well as providing support for Secondary Education majors with teaching fields in the Social Sciences or Spanish and for Elementary Education majors specializing in Bilingual Education.

The curriculum for this program is divided into two classifications: impact courses; which deal specifically and directly with the Mexican-American, and support courses, which, for the most part, are concerned with Mexico, aspects of its culture, and the Spanish language. Programs of study will be influenced by the student's major. Any course may be taken as an elective.

Minor Requirements

18 semester hours, of which 9 must be from the impact courses.

Impact Courses:

Eng 3316	The Mexican-American in American Fiction.
Hist 3373	Mexican-American Heritage.
Hist 4322	The Spanish Southwest Through 1821.
Soc 4323	The Mexican-American People.

Support Courses in History:

Hist 4325	The American Southwest Since 1825.
Hist 4345	Mexico's First Century as an Independent Republic.
Hist 4353	History of Mexican Culture.
Hist 4354	Contemporary Mexico.

Support Courses in Spanish:

Six hours of Freshman or Intermediate Spanish	
Span 3303	Advanced Spanish Composition.
Span 3304	Advanced Spanish Composition.
Span 3305	Advanced Grammar and Syntax.
Span 4311	Mexican Literature (1500-1850).
Span 4312	Mexican Literature (1850 to present).

Department of Political Science

Dr. Jerry L. Polinard, *Head*

The Department of Political Science consists of Community Services, Government, and Law Enforcement Science.

Community Services prepares the student for (1) more effective participation in community affairs, based on the concept that a liberal arts education provides an enriched understanding of modern society's complex needs, service-delivery systems, and human welfare issues; (2) immediate employment of a beginning professional in social service positions which do not require professional social work education at the graduate level; and (3) admissions to graduate programs for professional social work and vocational rehabilitation.

Recognizing the marked demand for social services and attendant manpower shortages, Pan American University is now providing opportunities for its graduates to obtain knowledge and skills requisite to filling social service positions. Under the Department of Political Science, the program offers a sequence of core courses, supported by interdisciplinary content areas designed to integrate social sciences and behavioral knowledge reinforced by practical learning experiences in community social agencies and settings.

A strong counseling program guides the Community Service student through specific background content areas that have been identified as necessary to give him a generic competence as a helping professional, and starts him in the direction of his vocational interest.

Government majors and minors specialize in three fields of Political Science: (1) American government, including local, state, national; public administration and public law. (2) Comparative government and international relations, including totalitarian government, and government and politics of Asia, comparative governments—Western Democracies politics of emerging nations, Africa and Middle East; international politics and international organization. (3) Political theory and

methodology, including scope and methods of political science, and political theory. The Government faculty and students are actively involved in such campus activities as pre-law, student government and other student political activities. Government majors and minors also may become involved in the Department's Urban Intern program, whereby selected students receive college credit while working with local, municipal and county governments, or in the Department's City Manager in Residence program.

Students majoring in Government may pursue active careers in Law, National and State government, Diplomatic Services, Journalism and Teaching. Regardless of their chosen careers, Government majors all share an interest in the struggle to obtain and use political power; this interest is recognized in the nature of the courses offered by the Government faculty.

Law Enforcement Science is designed to prepare the student for entering law enforcement as a career in municipal, state and federal agencies. It also provides a well-rounded academic experience which will provide a basis for graduate study in the Law Enforcement field. Bilingual ability and bicultural understanding are given special attention and are strongly recommended for all students. Credit may be obtained by examination.

LES graduates make an immediate impact on their community through their employment in local law enforcement agencies. The LES program has grown rapidly since its inception and enjoys a statewide reputation.

General Education Requirements for Bachelor of Arts Degree in Government and Bachelor of Arts Degree in Community Services:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore English	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Mathematics, Lab Science or Foreign Language	12 hours*
P.E. Activities	4 hours
Electives	12 hours

TOTAL.....52-54 hours

*From two of the three fields. C.S.R. majors are required to take Math 1303 or 1304 and 1313 and 6 hours of Spanish.

General Education Requirements for Bachelor of Science Degree in Law Enforcement Science:

English 1301, 1302 or 1387, 1388 or 1405, 1406	6-8 hours
Sophomore English (Eng 2309 and 3 hours Soph Lit)	6 hours
History 2313 or 2333, 2314 or 2387, 2388	6 hours
Government 2313, 2314 or 2387, 2388	6 hours
Mathematics, Lab Science or Foreign Language	12 hours
(From two of the three fields)	

P.E. Activities	4 hours
Electives	12 hours

TOTAL.....52-54 hours

Degree Requirements

Major in Community Services:

The broad field major in this discipline includes 57 semester hours in C.S.R. and related social sciences. Must include C.S.R. 2313, 3313, 3323, 4313, 4323, 4333, 4613, 4614 (opt); Soc 1313, 1323 or 2333, 3333 or 4313, 3313 or Psy 4313; Psy 1313, 1323, 2324, 4333 or 4363; Phil 2313, 2323 or 2343 or 2353, 3313 or 3333; Math 1303 or 1304 and 1313.

(There is no minor nor are there Teacher Education Fields in this major.)

Major in Government:

30 semester hours in Government. Must include Govt. 2313, 2314, 2333; 21 semester hours must be at the advanced level and must include six hours in American government and politics and three hours from the other two above described fields. Eco. 2351, 2352 (required).

Minor in Government:

18 semester hours in Government, of which 9 semester hours must be advanced, must include Govt. 2313, 2314, 2333.

Teacher Certification in Government:

Elementary Plan I: 18 semester hours in Government, of which nine must be advanced; must include Govt. 2313, 2314, 2333; and three hours from each of the above three fields of political science.

Elementary Plan II: 24 semester hours in Government, of which 15 must be advanced; must include Govt. 2313, 2314, 2333; and three hours from each of the above three fields of political science.

Secondary Plan I: 24 semester hours in Government of which 15 hours must be advanced, must include Govt. 2313, 2314, 2333; and six advanced hours from American government and politics, three hours from each of the other two fields of political science.

Teacher Certification in Social Science:

Secondary Plan II: 48 semester hours in Social Studies. Must include Hist. 2313, 2314, 2333; Govt. 2313, 2314; Eco. 2351, Geog. 2313 or 2301; and Soc. 2313. 24 semester hours must be divided among advanced History and Government courses with not fewer than nine semester hours in each field.

Major in Law Enforcement Science:

The broad field major includes 53 hours in Law Enforcement Science and must include LES 1301, 1302, 2301, 2302, 2313, 2323, 2333, 3401, 4301, 4302, 4401, Soc. 3313, and twelve hours from: LES 3301, 3302, 3303, 3304, 3305, 3306. Required support courses include: six hours from: Psy. 2313, 2323, 2324; six hours from: Soc. 2313, 2323, 3333, 4313, 4343; and Govt. 3364 or 3365.

- (1) Plan I stresses a bilingual and bicultural interest, and requires a minimum of twelve hours in Spanish and recommends six semester hours in Mexican-American Studies. This plan is highly recommended for all students, both for those with Spanish-speaking ability and the monolingual candidate.
- (2) Plan II offers an option to the bilingual, bicultural plan by not requiring foreign language or special studies.

Suggested Curricula

Community Services Major

Freshman Year

Eng 1301, 1302
Soc 1313, 1323 or 2333
Psy 1313
Math 1303 or 1304, 1313
Hist 2313 or 2333, 2314
P.E. 2 hours

Junior Year

CSR 3323, 4333
Soc 3313 or Psy 4313
Phil 2323 or 2343 or 2353
Span 6 hours
Electives 6 hours

Sophomore Year

Soph Eng 6 hours
Govt 2313, 2314
Psy 1323, 2324
Phil 2313
CSR 2313, 3313
P.E. 2 hours

Senior Year

CSR 4313, 4323, 4613
Psy 4333 or 4363
CSR 4614
Electives 6 hours

Government Major

Freshman Year

Eng 1301, 1302
Govt 2333
Hist 2313 or 2333, 2314
For Lang, Math or Lab Sci 6 hours
P.E. 2 hours
Minor 3 hours

Junior Year

Govt 12 adv. hours
Minor 3 adv. hours
Electives 6 hours
Additional Electives 9 hours
(with 6 adv.)

Sophomore Year

Soph Eng 6 hours
Govt 2313, 2314
Eco 2351, 2352
For Lang, Math or Lab Sci 6 hours
P.E. 2 hours
Minor 3 hours

Senior Year

Govt 9 adv. hours
Minor 6 hours (with 3 adv.)
Electives 6 hours
Additional Electives 12 hours
(with 3 adv.)

One of the more popular events of the annual Bronco Days celebration each November is the sack race (right) in which sororities, fraternities, clubs and organizations compete for honors. Winners of all events receive awards for their efforts at the end of the week-long celebration.



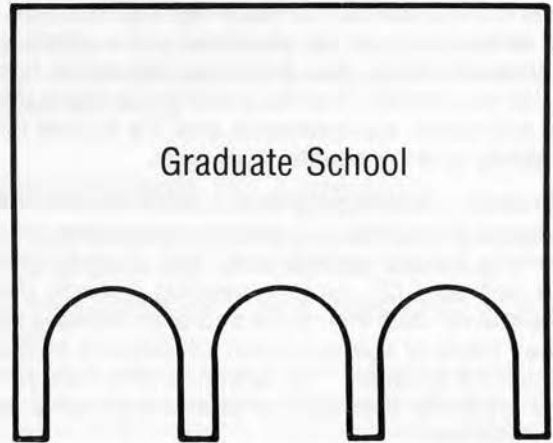


The \$1.24 million Education Building (above) contains the school of education, Inter-American Affairs and International Education division, in addition to classrooms and faculty offices. The modern Spanish architecture throughout Pan Am's campus is accentuated in the student dormitories (right). Students read between classes at the Health and Physical Education Complex (far right).





Graduate School



THE GRADUATE SCHOOL

Pan American University was authorized by its Board of Regents on March 12, 1970, to request approval of the Southern Association of Colleges and Schools for seven master's degree programs: Master of Education (elementary and secondary); Master of Education in Counseling and Guidance (elementary and secondary); Master of Education in Supervision (elementary and secondary); and Master of Education in Health and Physical Education. This approval was received on December 2, 1970. The Coordinating Board, Texas College and University System, added its approval on July 15, 1971.

Graduate courses were first offered by Pan American University in September, 1971. Since that time the Master of Arts (English, History, and Spanish), the Master of Science (Biology and Mathematics) and Master of Business Administration have been added to the graduate program.

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 and his scores on aptitude tests the ability to do graduate level work.

The master's degree programs provide for the needs of the following types of students: (1) classroom teachers and administrators working toward professional and administrative certificates and degrees; (2) persons seeking through professional improvement to up-date their skills and/or to increase their knowledge of their fields of specialization; (3) persons seeking to prepare themselves to qualify for entrance into new professional fields; and (4) those who want to extend their horizons through personal enrichment.

Organization of the Graduate School

In addition to the President, the Vice President for Academic Affairs, and the Dean of the Graduate School, the faculty of the graduate school consists of all persons appointed by the President of the University to participate in the graduate instructional program. To qualify for membership on the graduate faculty, members must (1) meet the criteria outlined below; (2) be recommended by the heads of their departments; and (3) be approved by the deans of their respective schools, the Graduate Council, and the Dean of the Graduate School, who recommends them to the President.

A member of the graduate faculty must:

1. Be a member of a department offering an advanced degree or a department offering graduate level (5000-6000) courses;
2. Hold the terminal degree or its clear equivalent in his field;
3. Have an avowed interest in graduate research;
4. Have experience and continuing interest in teaching upper level courses;
5. Be a productive scholar within the context of his special field;
6. Hold the rank of assistant professor or a higher rank.

The Graduate Dean

The Dean of the Graduate School is the administrative officer of the graduate faculty and is responsible for the academic program of all graduate students and for policies and standards formulated by the Graduate Council. As an ex-officio member of the council, he calls the meetings and is responsible for the preparation of the agenda for these meetings. He makes recommendations to the council concerning the requirements for advanced degrees, the regulations necessary to insure a high standard of graduate work, and all other aspects of the graduate program. He appoints committees for graduate theses, advises students on the requirements of the Graduate School, and is responsible for determining and certifying to the Registrar candidates who have fulfilled requirements for advanced degrees.

The Graduate Council

The Graduate Council is appointed by the President upon the recommendation of the Dean of the Graduate School, with the advice of the Faculty Senate. It is composed of eight graduate faculty members, with at least one from each school, and two students, one graduate and one undergraduate.

All policies affecting graduate curricula leading to graduate degrees or professional certification are formulated by the Graduate Council. The council is primarily responsible for recommending new policies to the Dean of the Graduate School and through him to the Vice President for Academic Affairs, to the President, and to the Board of Regents.

The Graduate Council approves or disapproves requests by departments for new courses and new programs, reviews recommendations for membership on the graduate faculty, and advises and lends assistance to the Dean of the Graduate School in his execution of policies and regulations.

Graduate Programs

Additional policies and standards for graduate work which do not conflict with the general policies of the Graduate School and the University and which are approved by the Graduate Council may be established by each department offering graduate work.

A department which wishes to establish a new graduate program or modify an existing one must submit its program to the Graduate Council, which will make recommendations concerning the proposal to the Dean of the Graduate School.

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 the dates indicated in this bulletin. Failure to have applications with supporting documents on file by these dates will result in restrictive admission or denial of admission at that time. 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 Test only) and, for business administration majors, scores on the Admission Test for Graduate Studies in Business.

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 and ATGSB 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 (30) days prior to registration for the semester in which he plans to resume graduate study*.

Basic Requirements for Admission

1. Must hold a bachelor's degree or its equivalent from any college or university of recognized standing.
2. Must meet admission criteria established by the Graduate Council.
3. Must fulfill the Texas immunization requirement: Under Texas State law, an up-to-date Diphtheria-Tetanus immunization is required of all students entering Graduate School. Immuni-

zation certificates can be obtained from and will be processed through the Office of Admissions.

General Admission Requirements

(*GPA's are figured on a 4.0 scale for upper division undergraduate work only.)

A student who applies for admission to the Graduate School at Pan American University receives written notice of the disposition of his application. He will be placed in one of the following five classifications:

1. Clear Admission

MINIMUMS

GPA*		GRE Score	
Major	Overall	V	Q
2.75	2.50	370	370

2. Tentative Admission

Admission limited to one semester with a maximum of 9 hours. Transcript evaluations and GRE test scores (also ATGSB scores for M.B.A. students) must be on file in the Graduate Admissions office before any additional graduate enrollment will be permitted.

One additional semester (6 sem. hrs.) of tentative admission without a GRE score will be permitted if the applicant has at least a 3.0 undergraduate GPA* and no graduate grade below B.

A total of not more than 15 hours of graduate work may be earned during a tentative admission.

3. Probationary Admission

Admission with less than a 2.5 overall GPA* and 2.75 major GPA* but *not less than a 2.0 overall GPA* and 2.2 major GPA* in upper division undergraduate work* or admission with less than the required GRE score but *not less than a total score of 600.*

Probationary admission is limited to a total of 15 hours of graduate work. If no grade below B is made in this 15 hours,

classification will be changed to clear admission. (Repeat GRE only if score is below 600.)

At the time any grade of less than B is made in this 15 hours, the student will be allowed one semester to remedy the grade deficiency and graduate enrollment during that semester will be limited to repeating those courses in which the low grades were made. All grades, including repeated courses, will be included in computing graduate GPA.* A minimum B average must be maintained as specified for continuation.

4. Transfer Student Admission

May take 9 semester hours to be transferred to another institution. Transfer student admission requires only a letter of approval from the dean of the graduate school to which the work is to be transferred.

5. Denied Admission to Graduate School

May take undergraduate courses only. Contact the Graduate Admissions office for further information on meeting graduate admissions requirements.

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 through the Office of the Dean of the Graduate School.

When his application and supporting documents have been processed, a potential graduate student receives an admission notice from the Admissions office noting in writing his admission status in accordance with the criteria listed under *General Admission Requirements*. The student should retain this letter at least until he has been admitted to candidacy.

All graduate courses completed prior to enrollment at PAU must indicate successful graduate achievement (GPA of 3.0 or better on a 4.0 scale).

Departmental Admission Requirements

Each department sets the departmental admission requirements for its graduate majors with the approval of the Graduate Council. Consult the bulletin section referring to your major department for these requirements, which must be cleared before you may be admitted to candidacy.

All undergraduate leveling work must be satisfactorily completed prior to taking graduate courses or at least be completed during the first semester of enrollment in graduate courses.

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 prescribed courses in English.

Further information on the Test of English as a Foreign Language, the Graduate Record Examination, and the Admission Test for Graduate Studies in Business may be obtained by writing

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

Transfer of Credits

A maximum of twelve (12) semester hours of appropriate graduate work earned at other institutions, subject to the approval of the head of the major's 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. The transfer is completed when the Student's Admission to Candidacy form is approved by the Dean of the Graduate School (provided that the student graduates within the seven-year time limit).

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 (12) semester hours of work to complete all requirements for his (first) bachelor's degree.
2. These twelve (12) hours (or less) must be completed in the same semester or summer session (12 weeks) in which he is taking the graduate courses.
3. Total registration for all work must not exceed fifteen (15) semester hours in a regular semester or twelve (12) semester hours in a summer session (12 weeks).
4. The application for such graduate courses must be submitted to the Supervisor of Graduate Admissions *sixty (60) 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. Business administration students must also take the Admission Test for Graduate Studies in Business.

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

Procedure after Admission

The successful applicant will receive a letter of acceptance from the Admissions office, 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 should have his course program approved each semester by his advisor (or an approved substitute) before registering for courses.

General Graduate School Regulations

Student Responsibility

Graduate students are expected to inform themselves thoroughly concerning the regulations of the Graduate School and the course requirements for degrees and to make inquiries in case of doubt. It shall not be the Graduate School's responsibility should complications arise because of failure to follow regulations and requirements. Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Students, therefore, should become familiar with all of the information relating to the graduate program contained in the printed university bulletins.

Procedural changes, as well as changes in regulations and requirements, may be made from time to time after notice to the student body or to the individuals concerned. For this reason, a student is responsible for keeping the Office of the Graduate Dean and the Office of the Registrar advised of his local mailing address.

The student should work directly with the person in his major department who is assigned the responsibility of supervising his graduate program concerning course requirements and options, deficiencies, degree plan, and special regulations.

It should be noted that the Dean of the Graduate School interprets graduate policies and regulations; any other interpretations are unofficial. Requests to waive regulations and/or requirements should be directed in writing to the Graduate Council through the Dean of the Graduate School, who notifies the student of the decision on his request.

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 gradepoint 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.

Students with other than clear admission are subject to criteria set forth under *General Admission Requirements*.

A grade of I may be given when a student does not 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 an F on the official transcript.

Maximum Course Load

The normal load for a full time graduate student is twelve (12) semester hours. A student may be permitted to enroll for fifteen semester hours with the approval of his graduate advisor and the Dean of the Graduate School.

Students who are employed as full time teachers may not enroll for more than six (6) semester hours in one semester or more than twelve (12) 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 semester or the second class day of a summer term. *No courses should 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).

Requirements for all Master's Degrees

1. After completion of twelve (12) and before completion of eighteen (18) hours of graduate 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 (36) hours of course work or twenty-four (24) hours of course work plus six (6) 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 (6) semester hours of work which is not a part of his major field.
5. A maximum of eighteen (18) hours in 5000 level courses may taken for graduate credit toward a master's degree.

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 Dean of the Graduate School, 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 the student 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 (12) hours but before completion of eighteen (18) hours, he must apply for admission to candidacy to the head of his major department, who will appoint a committee to con-

duct the *oral examination* required at this point in the graduate program. Upon completion of the oral examination to the satisfaction of the student's committee, the committee chairman so notifies the head of the major department, who completes the application and forwards it to the Graduate Dean. The application is signed by both the student's graduate advisor and the head of his 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 *three 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 or summer session until the thesis is completed. Credit is counted only one time. Registration for 7300 or 7301 is not counted in determining load limit for a semester or summer session.

The original thesis and three 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 Office of the Graduate School and Microfilms Incorporated. A receipt for these fees must be presented to the Office of the Graduate School before the thesis will be processed.

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 or 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 *three 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 (36) semester hours of approved graduate courses in lieu of either thesis or report plan.

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.

To be eligible for the degree, *the student must file an application with the Office of the Registrar and pay his graduation fees.* (See calendar in front of bulletin for exact date.)

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 and ATGSB TESTS

The GRE and ATGSB are administered by the Testing office several times a year. The dates are set by the Educational Testing Service. Applications must be in Princeton, New Jersey, about a month before the scheduled test date. Check with the Testing office for application blanks and exact test dates.

Fields of Graduate Study

Pan American University is authorized to offer the following graduate degrees and certification programs:

Master of Arts (Majors: English, history, and Spanish)

Master of Business Administration

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 (Elementary)

Master of Education in Supervision (Elementary)

Master of Education in Health and Physical Education

Master of Education in Educational Administration

Master of Science (Majors: biology and mathematics)

Cooperative Ed.D. Program with the University of Houston

School Administrator's Certificate Programs (Middle Management and Superintendency)

Minor work for the degree may be done in the following fields:

Biology

Government

History

Education

Health and Physical

Mathematics

English

Education

Spanish

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, a supervisor, or an administrator. 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, must have completed three years of satisfactory teaching experience (except for the administrator's certificate, which requires only two years of satisfactory teaching experience), and must have completed all of the requirements for the appropriate master's degree. Because the provisional certificate is based upon the bachelor's degree, no more than six semester 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.

An 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 already hold the master's degree or have also completed all of the requirements for the appropriate master's degree.









Bulletin of
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