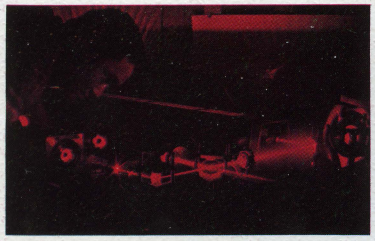
TCU ARCHIVES Athletics
C1







ATHLETICS & ACADEMICS AT TCU

TEXAS CHRISTIAN UNIVERSITY
FORT WORTH







Athletics and Academics at Texas Christian University

Sometimes, even an athlete forgets . . .

WHEN you pick the university that you will attend, you will have done much more than cast your lot with an athletic team and coaching personality.

You will have chosen the campus and city that will be your home for at least nine months of each year for four or more years during one of the most important times of your life.

Also, you will have chosen an institution to prepare you for living and working in our world for the rest of your life.

Sometimes, in the excitement and confusion of making this huge decision, even an athlete may forget, momentarily, the real reasons why he wants to go to college. Everybody seems to be talking to him about everything but the kind of education he should get and how much the university he chooses will continue to mean to him when his playing years are behind him.

TEXAS CHRISTIAN UNIVERSITY is proud of the accomplishments of its former athletes in the business and professional worlds they entered after putting away their purple and white uniforms. Just as the All-America TCU athlete is not unusual in the world of sports, success in business and professional worlds has come to be expected of TCU athletes after they graduate. There is good cause for this attitude.

Athletics and academics go hand in hand at TCU. TCU is Big League in athletics—and this is important to TCU coaches. But TCU coaches never forget (as you should not) that much more important to your future is the fact that TCU is Big League academically also.

It is traditional at TCU for the coaches to feel strongly that their jobs include encouraging their athletes to work hard at the task of preparing themselves for the future, as well as in preparing themselves for next week's game.

The purpose of this brochure, then, is to tell you—in plain, everyday language—some of the reasons we believe that TCU is the best place you could pick to live the next four years of your life and get the best possible education for your longhaul future . . . while you wear the world famous purple and white of the TCU Fightin' Frogs, of course.

We sincerely believe it will be worth the time it takes you—and your parents—to consider seriously the contents of these pages. Details about specific courses of study, and anything else that comes to mind, may be found in the TCU catalogs, or will be supplied at your request.



A Message From the Fightin' Frogs' Number One Fan



TCU has a long tradition of good football. Hard, clean superbly-coached Horned Frog teams have been fielded for many years, and the record books clearly point out the results. We intend to continue in this tradition.

TCU also has a long record of good academics, and we intend to continue this tradition, too. The two traditions go together very well. Students who come to TCU will confirm our claim that the faculty and administration at TCU are dedicated to making good academics and good athletics go hand in hand. Your academic counselors will be friendly and frank. Individual attention is a trademark of TCU and extra assistance with studies is always there for the asking.

The college years usually prove to be the most interesting and happiest years of one's life. This is especially true for people who work hard, participate in the opportunities afforded, and put their talents to work. These are the ones who emerge as winners.

To win a degree from TCU and varsity letters from Horned Frog athletics—this is a wholesome double goal to which any young man might aspire. We hope it fits your aspirations.

Sincerely,

J. M. Moudy, Chancellor

Texas Christian University







Above, Abe Martin accepts special award from former President Johnson. Below, Mr. Martin talks with coeds on campus.

Abe Martin Athletic Director

We, as coaches and administrators of Texas Christian University, want our teams to win. "There is no glory in defeat." We like 220-pound tackles. We like shifty halfbacks. We work long hours and travel long miles to encourage them our way. We want as many blue chip athletes as we can get at TCU. But they must meet the academic requirements and keep on meeting them. We do not want them for their athletic ability alone. We want them to be, and insist that they be, participating members of the college community, who are at TCU because they believe TCU can best prepare them for life.

We believe that America needs rugged competitive sports. There is not enough discipline, not enough physical and moral challenge, in the daily lives our fellow citizens lead. Football provides a challenge. Our program is based on the premise that football is good for young Americans. We believe you should look upon football as a builder of men; then winning will take care of itself.

Our coaches work for our university, not for booster clubs, townspeople, nor alumni. We are full-time faculty people, with the same privileges and same responsibilities as others of the teaching staff. We try to think of the quarterbacks, ends and tackles, with whom we work five days a week and watch in competition the sixth day, and try to realize the vital part that they might play in a future law case, or surgical operation, or business decision, or the sermon a boy might preach fifteen years from now. We feel that we are teachers and as much a part of our boys' education as their professors.

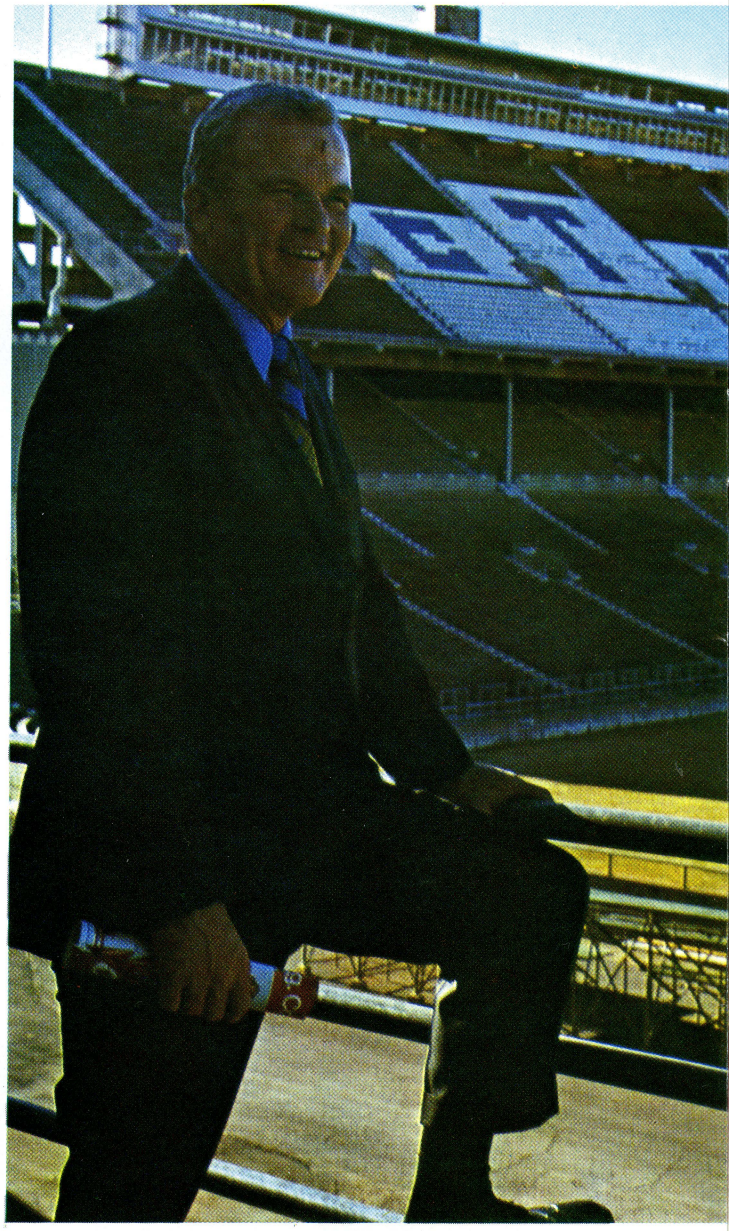
We are continually stressing the educational values of our program. We know we are playing under the Big Top, but we also believe our program must have the full confidence of our fellow faculty members.

We are doing our utmost to keep our intercollegiate football program untarnished. Winners might not come as often in this kind of program, but when they do come, they are a tremendous satisfaction and gain for our institution.

I have been associated with most of the Purple and White sons of TCU through the years and almost to a man they have conducted themselves with dignity, pride and success in whatever walk of life they have chosen.

Abe Martin,
Athletic Director,
Texas Christian University

"THE PITTMAN ERA"



There is a new era beginning at TCU and you can be a part of it.

Just this past December, TCU hired as its new head football coach one of the most popular, aggressive and fast-rising men in major college circles—Jim Pittman.

Coach Pittman comes to TCU straight from his post as head man for Liberty Bowl champion Tulane. His Green Wave team there scored a major upset when it beat Colorado in Tulane's first bowl performance in 30 years. And Coach Pittman brought the school back to national notice almost immediately.

He took over the Tulane job in 1966 after spending 12 years as a top assistant with Darrell Royal at Mississippi State, Washington and the University of Texas.

After his first season, he was named Louisiana Coach of the Year as Tulane finished 5-4-1. The year before Coach Pittman took over, the Green Wave had waded through a 2-8 season.

The 1970 Liberty Bowl team was the first "full" squad as Coach Pittman had been hired only two days before Christmas in 1965, after much of the recruiting for the 1966 freshman had been completed.

Coach Pittman has been a winner throughout his 21 years in the profession. His overall ledger shows 131 victories compared with only 77 losses and 9 ties. He has coached in eight bowl games.

Following graduation from high school in Boyle, Mississippi, Coach Pittman joined the U. S. Marines in December, 1943. He was stationed for two years on the USS New Jersey, flagship for the Seventh Fleet, and he was invoved in five major operations including Iwo Jima and Okinawa. He was discharged in December, 1945, with the rank of Buck Sergeant.

Following discharge, he enrolled at Mississippi State, where he was a fullback-linebacker on the football teams of 1946-49.

Upon graduation, Coach Pittman served as head coach at Carthage, Mississippi, High School in 1950. However, that was the end of his high school coaching career as he jumped right into the college ranks the next year. He was assistant freshman coach at his alma mater in 1951-52. In 1953, he was elevated to offensive line coach.

In 1954, he began his dozen-year relationship with Darrell Royal. He was defensive line coach at Mississippi State in 1954-55. Coach Pittman served as chief aide and offensive line coach with Royal for the next 10 years at the Universities of Washington and Texas.

Thus, he has had major college experience as both an offensive and defensive assistant and as a successful head coach.

Coach Pittman's 1970 Tulane team finished sixth nationally in total defense, allowing only 227 yards per game.

He becomes TCU's 23rd head coach in the Horned Frogs' 74-year gridiron history. Yet he is only the sixth since 1923.

Coach Pittman and wife (Jane) have two sons, Alec, a student-athlete at the University of Alabama, and Brad, a standout schoolboy player.

Coach Jim Pittman has already built a reputation as a quick rebuilder. He believes in a diversified, balanced offense and an aggressive, hard-nosed defense. He is a competitor and a winner.

YOU CAN BE A PART OF THE NEW ERA. JOIN COACH JIM PITTMAN AND THE TCU HORNED FROGS.


TEXAS CHRISTIAN UNIVERSITY
FORT WORTH







What They Say About Coach Jim Pittman and TCU



JIM TRINKLE, Fort Worth Star-Telegram—"It is easier to like Pittman than not. His company wears well."

ROY EDWARDS, Dallas Morning News—"TCU has outstanding athletic facilities, an excellent football stadium and a beautiful coliseum standing there side by side and connected by lush new dressing room complex. And right alongside the coliseum are an excellent baseball field and running track. The quality of the physical plant is unsurpassed in the Southwest Conference and nobody has them all setting there snugly on the same piece of ground."

DICK PEEBLES, Houston Chronicle—"Pittman is a tremendous recruiter. TCU has latched onto a guy who has been through the wars and won."

RICK KINGREA, Tulane All-American linebacker—"If I hadn't played under Coach Pittman I know I would have missed something out of life. He's just what any school looks for in a new coach. He's a builder. You wouldn't believe his practices, how organized he is. It's just beautiful the way he runs things. You can see the excitement boiling up inside of him and it starts building in you."

DR. W. EARL WALDROP, TCU Senior Vice-Chancellor—"Jim Pittman is a competitor and a winner. We envision that he and his fine staff will lead TCU to new records and establish new traditions."

JONES RAMSEY, UT publicist—"He's the type of guy that other people look up just to say hello. He's a friendly guy who gets along with everyone. He has a magnetic personality. He's a man's man."

Football at TCU

When you become a part of TCU Horned Frog football, you are part of something which adds up to a great deal more than just another big time collegiate football program.

TCU football has developed a distinctive and unique character during the half-century it has participated in the development of the modern version of this American sport. The TCU Horned Frogs are now closely identified with the national character of the game along with other great and distinctive collegiate football traditions such as that of the Fighting Irish of Notre Dame. Ask fans anywhere about the Horned Frogs of TCU and they will know the team and probably can name a few of the great individual TCU stars.

TCU football means something special all over the nation to those who follow the game, which includes most Americans. TCU football means all-time All-Americans, startling upsets, conference championships and bowl games. It means nationally-ranked opponents Saturday after Saturday.

TCU football means Bob Lilly football, Slinging Sammy Baugh football, Jim Swink and Tommy Crutcher football, Davey O'Brien, Ross Montgomery, Don Floyd, Kent Nix and Ki Aldrich football . . . Ask your dad about any names here that you don't recognize, because TCU football was special 35 years ago as well as today.

Only one other Southwest Conference school can match TCU's winning record over the years since the conference was organized in its present form back in 1925.

The official SWC records show that TCU ranks in the top three in all the following departments:

Number of conference titles won, number of Cotton Bowl appearances; number of post-season bowl games played; number of All-American and All-SWC players produced; number of times having the leading rushing back in the conference and the leading conference passer, and number of times to lead the conference in total team offense.



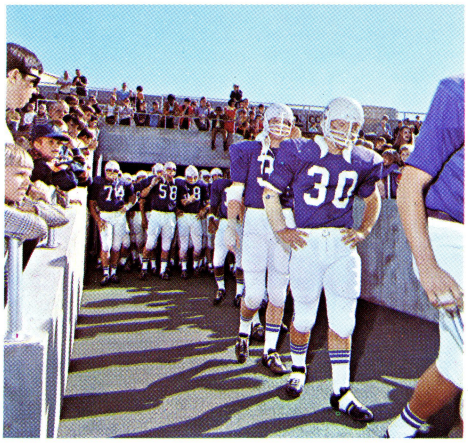
The 1969 football season was the 100th anniversary of collegiate football and picked as the quarterback on the all-time college team was none other than a former Horned Frog. Here Slingin' Sammy Baugh, who through this honor is recognized as the greatest quarterback in college history, receives his plaque.

While its football teams were establishing this record, TCU simultaneously was winning the annual Southwest Conference Sportsmanship Award more often than any other conference school. And—although TCU ranks at the top in all these departments in the conference's history book—TCU has never been suspended, or even reprimanded, for illegal recruiting practices or dirty play. (Only one other SWC school can say that.) Those in charge at TCU are convinced that this proud record is a direct result of TCU's unusually stable coaching situation which in turn is a result of a sane and sensible athletic policy from the top down.

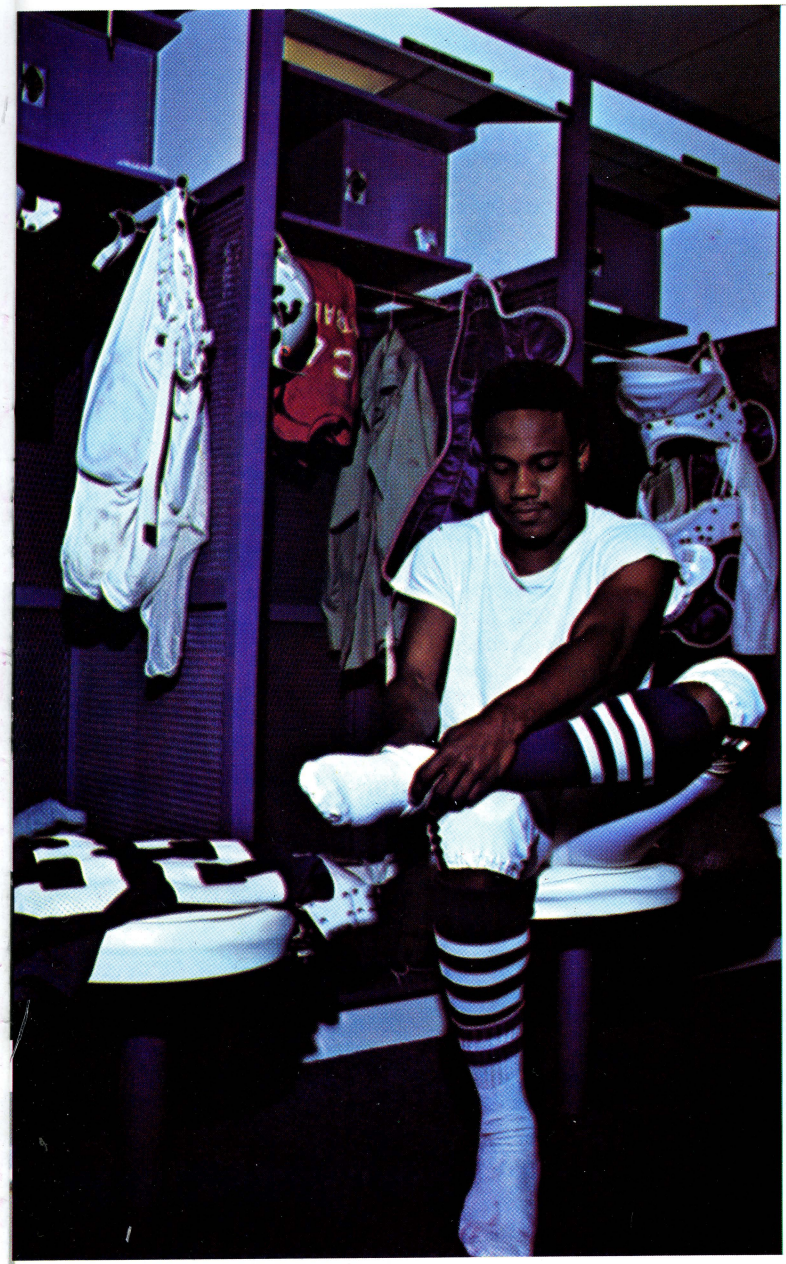
It all adds up to this:

TCU football means winning football—and winning with honor.




30





Horned Frogs' Athletic Complex Rates With Best

The addition, located back of the south end zone, was completed just prior to kickoff of the 1970 season. And Horned Frog officials, coaches and athletes are basking in the country club atmosphere.

"This has to be the finest facility of its kind in the nation," proclaim TCU athletic officials.

The addition, complete with a tunnel which runs under the south end zone and provides access to the playing field of Amon Carter Stadium, serves a two-fold purpose. In one half is the dressing room; in the other, 1400 square feet of tiled first aid and training rooms.

The dressing portion is completely carpeted in purple with 110 individual lockers for players and coaches. Even padded stools are placed in front of each locker. For added plushness, there is a sauna bath.

The training room is completely tiled—floors and walls. Included is a whirlpool bath which will accommodate seven or eight athletes at a time.

"Our only worry is that someone might drown, it's so deep," jests one TCU coach. "You could go swimming in there. All we need is a diving board."

Both portions are air-conditioned with piped-in stereo music.

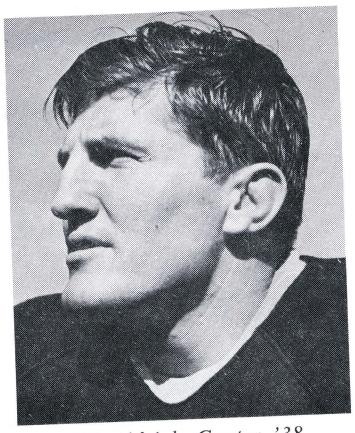
There is a complete laundry room, lecture room, and what seems like acres of storage space.

Dressing rooms just aren't like they used to be. At least, not at TCU.

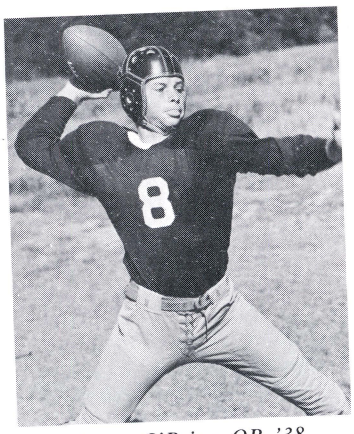


24 Times All-Americans Have Made it Wearing The Purple and White of the TCU Fightin' Frogs...

Only one Other SWC School can Match that Record.



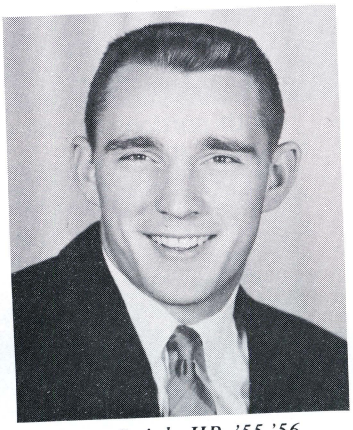
Ki Aldrich, Center, '38



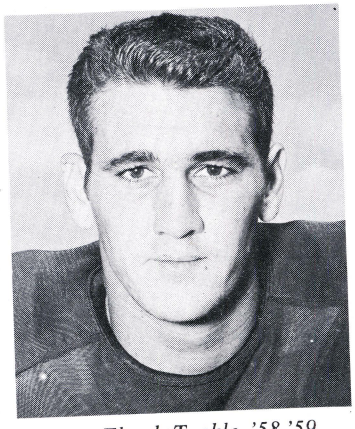
Davey O'Brien, QB, '38



Bob Lilly, Tackle, '60



Jim Swink, HB, '55-'56



Don Floyd, Tackle, '58-'59

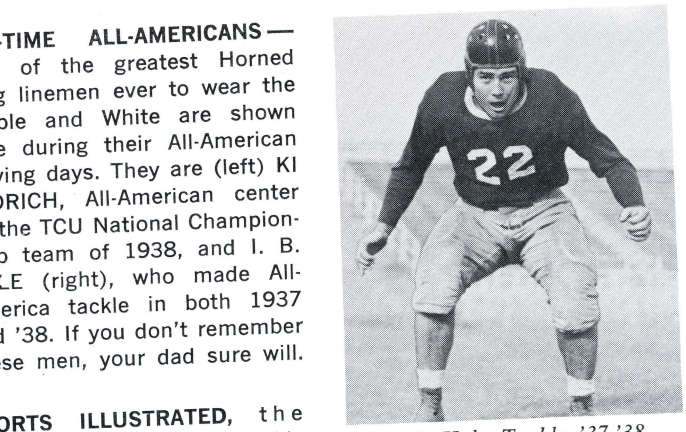


Keith Flowers, Tackle, '51

ALL-TIME ALL-AMERICANS — Two of the greatest Horned Frog linemen ever to wear the Purple and White are shown here during their All-American playing days. They are (left) KI ALDRICH, All-American center on the TCU National Championship team of 1938, and I. B. HALE (right), who made All-America tackle in both 1937 and '38. If you don't remember these men, your dad sure will.

SPORTS ILLUSTRATED, the popular Time, Inc., weekly sports magazine, named Davey O'Brien, former TCU All-America quarterback, to its Silver Anniversary All-America football team in 1963. The anniversary team was made up of all-time greats of U.S. collegiate football who went on from college to become successful in business and professional careers. O'Brien, who played for the Philadelphia Eagles of the NFL after graduating from TCU, lives in Fort Worth and is an avid TCU booster. He has a number of business interests in the area and is in the oil business in Fort Worth. O'Brien quarterbacked TCU's national championship team in 1938.

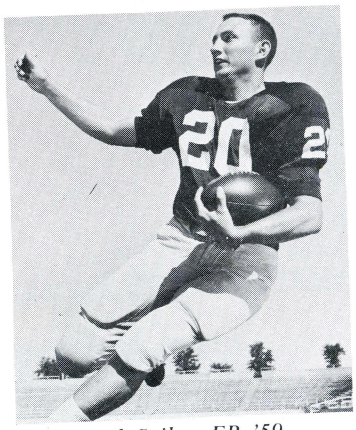
JACK SPIKES, a star American Football League ball carrier for a number of seasons, is shown at right as he looked when he made All-American fullback as a TCU Horned Frog in 1959. Spikes began an era of great fullbacks at TCU. He was succeeded at the Purple and White fullback job by the likes of Jim Fauver, Tommy Crutcher, Norman Bulaich, and other hard-running, hard-blocking standouts.



I. B. Hale, Tackle, '37-'38



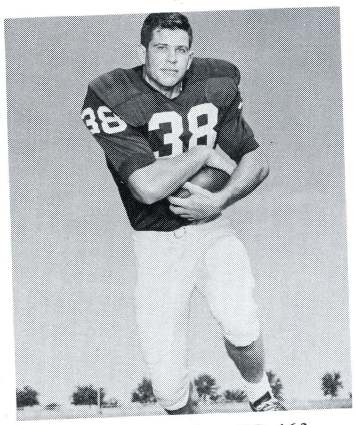
Sammy Baugh, QB, '35-'36



Jack Spikes, FB, '59



Rags Matthews, End, '27



Tommy Crutcher, FB, '63

Frogs Rank High Against Top Competition

1971:

Washington @ Seattle
Arkansas @ Fayetteville
Okla. State @ Ft. Worth
Texas A&M @ Ft. Worth
Penn State @ University Park, Pa.
Baylor @ Waco
Texas Tech @ Ft. Worth
Texas @ Austin
Rice @ Ft. Worth
SMU @ Dallas

1972:

Indiana @ Bloomington
Arkansas @ Ft. Worth
Tulsa @ Tulsa
Texas A&M @ College Station
Notre Dame @ South Bend
Baylor @ Ft. Worth
Texas Tech @ Lubbock
Texas @ Ft. Worth
Rice @ Houston
SMU @ Ft. Worth

1973:

Ohio State @ Columbus
Arkansas @ Little Rock
Idaho @ Ft. Worth
Texas A&M @ Ft. Worth
Tennessee @ Knoxville
Baylor @ Waco
Texas Tech @ Ft. Worth
Texas @ Austin
Rice @ Ft. Worth
SMU @ Dallas

1974:

Arizona State @ Tempe
Minnesota @ Minneapolis
Arkansas @ Ft. Worth
SMU @ Ft. Worth
Texas A&M @ College Station
Alabama @ Birmingham
Baylor @ Ft. Worth
Texas Tech @ Lubbock
Texas @ Ft. Worth
Rice @ Houston

1975:

Arizona State @ Ft. Worth
Nebraska @ Lincoln
Arkansas @ Fayetteville
SMU @ Dallas
Texas A&M @ Ft. Worth
Alabama @ Ft. Worth
Baylor @ Waco
Texas Tech @ Ft. Worth
Texas @ Austin
Rice @ Ft. Worth

1976:

Tennessee @ Knoxville
Nebraska @ Lincoln
Arkansas @ Ft. Worth
SMU @ Ft. Worth
Texas A&M @ College Station
Miami @ Miami
Baylor @ Ft. Worth
Texas Tech @ Lubbock
Texas @ Ft. Worth
Rice @ Houston

SWC CHAMPS SINCE 1925

Texas	14
TCU	**8**
Arkansas	9
SMU	7
A&M	7
Rice	6
Baylor	0
Tech	0

COTTON BOWL TRIPS

Texas	11
TCU	**6**
Arkansas	5
Rice	4
SMU	3
A&M	3
Tech	1
Baylor	0

TOTAL BOWL APPEARANCES

Texas	17
TCU	**12**
Arkansas	12
Tech	10
Rice	7
Baylor	7
A&M	7
SMU	6

HORNED FROG ALL-AMERICANS:

Rags Matthews, E, '27
John Vaught, G, '32
Darrell Lester, C, '34
Sam Baugh, QB, '35-'36
I. B. Hale, T, '37-'38
Davey O'Brien, QB, '38
Ki Aldrich, C, '38
Darrell Palmer, T, '42
Clyde Flowers, T, '44
Lindy Berry, QB, '49
Keith Flowers, C, 51
Doug Conaway, T, '51
Ray McKown, QB, '51
Hugh Pitts, C, '55
Jim Swink, HB, '55-'56
Norman Hamilton, T, 56
Don Floyd, T, '58-'59
Jack Spikes, FB, '59
Bob Lilly, T, '60
Tom Crutcher, FB, '63

Ki Aldrich
Bruce Alford Sr.
Bruce Alford Jr.
Ramon Armstrong
Sammy Baugh
Ben Boswell
George Brown
Norman Bulaich
Charles Casper
Linzy Cole
Norman Cox
Tommy Joe Crutcher
Weldon Edwards
Drew Ellis
Hunter Enis
Lon Evans
Norman Evans
Keith Flowers
Bobby Jack Floyd
Don Floyd

AND THEY CATCH THE EYES OF THE PROS

Billy Gault
Sonny Gibbs
John Hall
Phil Handler
Sherrill Headrick
Ken Henson
Grassy Hinton
Frank Kring
Jimmy Lawrence
Darrell Lester
Wilton Lewis
Bob Lilly
Aubrey Linne
Don Looney
Taldon Manton
Ross Montgomery
John Morton
Emery Nix
Kent Nix
Davey O'Brien
Richard Oliver
J. C. O'Neal
Darrell Palmer
John Patton
Hugh Pitts
Joe Robb
Rollin Roach
Justin Rowland
Jim Shofner
Fred Shook
Jack Spikes
Pete Stout
Jim Swink
Bubba Thornton
Ted Vaught
Will Walls
Allie White
Jake Williams

The Unique Character of TCU Athletics

The unique character of the TCU athletic program is reflected in the unusual stability of its coaching staff over the years. Jim Pittman is only the fourth head football coach at TCU since 1934.

TCU's new football staff comes from a widely-varied collegiate background. Head coach Pittman is a graduate of Mississippi State as is chief aide Billy Tohill. Marvin Lasater (TCU), Marvin Kristynik (Texas), Gerard Boudreaux (Southeastern Louisiana), Andy Bourgeois (LSU), Ralph Smith (Texas A&M), Tommy Lucas (Texas) and Tommy Runnels (North Texas State) are the other grid coaches.

TCU does not recruit large numbers of freshmen athletes. Those who are recruited are treated as individuals, not numbers or machines. Each new Horned Frog quickly becomes a participating member of the TCU "family," both as an athlete and student. TCU coaches are vitally interested in each individual who is awarded a TCU grant-in-aid athletic scholarship.

TCU has a record of the longest average coaching tenure of any Southwest Conference member. This means the coaches who recruit you will be around when you are playing on the TCU varsity. This is important to your athletic career, because the coaches who recruit you have plans for you and can carry them out.

The character of the TCU athletic program is reflected also in another record. TCU has established a winning tradition in Big League collegiate football without ever being put on probation, or even reprimanded, for recruiting practices or dirty play. Only one other SWC school can say that. (The winning tradition is shown in the record, too. Only one school has won more SWC titles than TCU, and only one school has played in more post-season bowl games.)

The philosophy of TCU coaches is revealed also in the fact that 24 times TCU Horned Frogs have been named to major All-American teams, and 123 times Horned Frogs have been named to All-SWC teams. Only one other SWC school can match that record. This is more proof that TCU coaches work hard to develop each player to his maximum potential, in the position he is best equipped to play.

At TCU, also, the coaches believe strongly in scheduling the strongest opponents available. A look at the future TCU schedules on page 11 will verify this. There are Notre Dame in 1972, Miami in 1976, Ohio State in 1973, Penn State (there) in '71, to name a few. In addition to these top-ranked non-conference foes, of course, there is the regular SWC round-robin play each season, which is about as tough as they come. TCU does not believe it would be in the best interests of its players to schedule "breather" games, so the coaches might look "good" winning easy games by high scores. Again, at TCU they think first of what the TCU players can gain in recognition and experience by playing only the best in the nation Saturday after Saturday.

The Freshman Program



Coach Runnels

We believe firmly that the TCU varsity athletic program can be only as strong as the freshman program. Therefore, freshman athletics at TCU has a personality all its own. Our athletic foundation is based upon the development and adjustment of our athletes. We believe this should be a natural development, without undue pressures or unreasonable demands, made too soon.

The importance placed on freshman athletics at TCU was revealed most dramatically in the winter and spring of 1967 when Fred Taylor was promoted from head frosh football coach to head football coach and Johnny Swaim, a former freshman basketball coach, was promoted to the boss job in the TCU basketball department.

Every TCU freshman athlete gets plenty of opportunities to prove himself under game conditions because we do not recruit overly large numbers of athletes. We actually expect that each new recruit will help carry the varsity load before he graduates. That is, we don't recruit a high school player just to keep him from going to another school or to "try him out" then maybe discard him. If TCU offers you a grant-in-aid athletic scholarship, TCU believes it has a place for you in its stable, winning, athletic program.

He Coaches Wog Football

The 1971 season will be the first for Coach Tommy Runnels at the head of the Wog team after a successful tenure in the Fort Worth high school ranks. Coach Runnels was the head mentor at Fort Worth Wyatt H. S. where he won the district title in only the school's second year and tied for the crown the third season. A former standout running back at North Texas State, he also played professionally with the Los Angeles Rams and Washington Redskins.



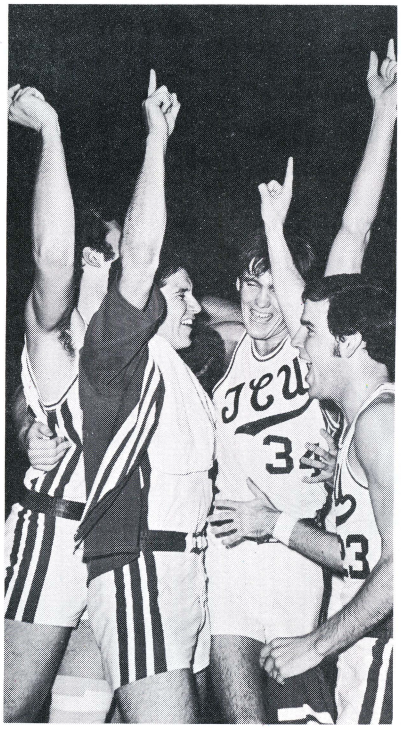
Basketball at TCU

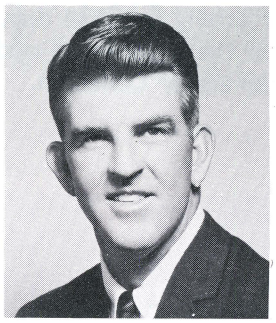
Basketball pundits all over the southwest are predicting big things for TCU basketball during its "Johnny Swaim Era," which officially began when Swaim became the Horned Frogs' head basketball coach in the spring of 1967.

Johnny Swaim is a young man accustomed to winning, and he isn't likely to change his ways now that he's running the basketball show at TCU. He was an outstanding guard on Horned Frog basketball teams which won Southwest Conference championships three years in a row—in 1951, '52 and '53. After a few successful years as a high school coach, Swaim was lured back to TCU by his former coach, Buster Brannon. He assisted Coach Brannon during 13 seasons which saw the Horned Frogs as consistent title contenders and winners of another SWC title in 1959. In 1967, the Brannon-Swaim combination pushed SMU right down to the wire as the senior-studded Mustang team finally won the pennant by scoring with less than a minute to play in the final game against the Horned Frogs.

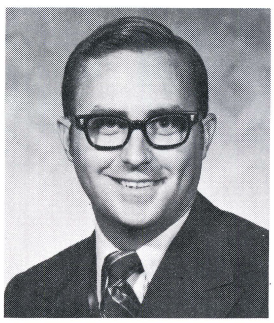
Swaim made basketball history when he became the first coach in Horned Frog annals to win a Southwest Conference championship in his rookie year of 1968. His 1970 club, picked for dead last in preseason polls, was the Cinderella team of the league, finishing third after leading during the middle of the chase.

Coach Swaim is a native of Graham, Texas, where he starred in football and baseball as well as basketball. After his senior season at TCU, Swaim was invited to play in the Shrine East-West All-Star basketball game in Kansas City. While at TCU, he also earned two letters as a baseball pitcher.





Coach Swaim



Danny Whitt, Assistant

Along with the basketball coaching change, which saw Buster Brannon voluntarily move into full-time duties as assistant athletic director, are careful plans for moving TCU basketball into its new era—the Johnny Swaim Era. Schedules are even tougher and the pace is becoming even faster as TCU basketball becomes truly Big League collegiate basketball. Those athletes who become a part of TCU basketball in the Johnny Swaim Era will find it exciting and rewarding in the ways that really count.

Danny Whitt, a newcomer to the Frog staff after an extremely successful high school coaching career, is the TCU freshman cage coach and chief recruiter.

Baseball at TCU

Baseball coach Frank Windegger has maintained the traditionally strong TCU baseball image since he succeeded Coach Rabbit McDowell as Head Baseball Coach in 1962.

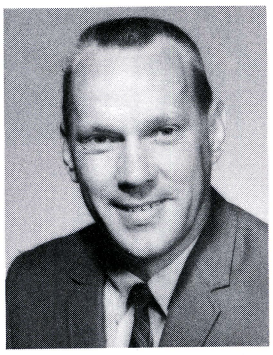
In 1963, Coach Windegger's second season as head man, his Frog nine won 12 of 15 SWC games to set a new TCU record. His TCU baseball teams tied for the SWC titles in both 1966 and 1967. Quite a record for a young coach.

In 1967, four members of the Horned Frog nine were selected on the All-SWC team. The 1968 and 1969 seasons saw five players each year so honored.

Windegger also is NCAA district baseball chairman for this region.

The TCU varsity baseball diamond is one of the finest in the conference and located next to the Daniel-Meyer Coliseum.





Coach Windegger



Mike Justice





Left, Larry McBryde, TCU's Southwest Conference hurdles champ. Below, two-times conference long jump champ, Carl Mills.



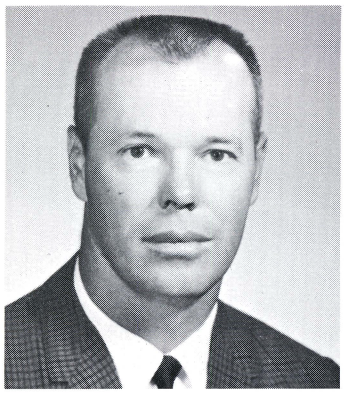
Track at TCU

The TCU track program, under the guidance of Coach Guy Shaw Thompson, is one of the fastest growing in the entire Southwest.

Last spring, the Horned Frog thinclads finished fourth in the Southwest Conference meet, the best showing since 1938. Forecasts for the future look even brighter as Coach Thompson had one of his best recruiting seasons ever last year. Included in the haul of new Frogs were four state champions from outside the boundaries of Texas. So, you can see, the TCU track arm reaches a long way.

Coach Thompson produced two individual SWC champions last year, long jumper Carl Mills and hurdler Larry McBryde, both underclassmen. In fact, Mills is a two-time SWC king and has a shot at being the first four-time winner in history as he will be only a junior in 1971.

The TCU track is located behind Daniel-Meyer Coliseum in the compact TCU athletic complex.



Coach Thompson

TCU Varsity Sports Program is Well-Rounded



The TCU intercollegiate varsity sports program is well-rounded to include well-coached entries in Southwest Conference competition in track, baseball, swimming, soccer, tennis, golf and bowling.

The track program has been building in recent years under the guidance of Coach Guy Shaw Thompson.

TCU Frogs got into the water as varsity swimmers for the first time in the spring of 1967, and the coaches have expressed high hopes for the future of that sport at TCU.

The TCU golf team has produced such nationally-known PGA pros as Don Massengale and Charles Coody. The golfing Frogs practice and play matches at a local Country Club. Ted Hajek is the coach.

TCU varsity tennis teams practice and play on new facilities on campus. Buster Brannon is the coach.





TCU's Chief Trainer, Elmer Brown, is a Former Head Trainer for the U.S. Olympic Team

Nobody likes to think of athletic injuries, least of all coaches and parents and the athletes themselves. However, TCU coaches know it is important to think ahead about injuries in order to prevent them and be ready and able to care for any Horned Frog who happens to pull up temporarily lame.

In charge of TCU's excellent athletic training program is Elmer Brown—recognized as one of the finest athletic trainers in the nation. His abilities and dedication to his profession earned him the appointment as head trainer for the 1958 U. S. Olympic track squad at Melbourne, Australia.

Weight room programs designed by Brown are important phases of TCU's preventive plan. The extensive weight and exercise equipment available to TCU athletes and utilized under Brown's individualized guidance speed up the development of strategic muscles to improve performance and help avoid injury.

A Short History

A university grows wiser and stronger as it grows older. Texas Christian University is the oldest university in West Texas and the fourh oldest in the state. It will be 100 years old in 1973.

The civil war had just ended when Addison and Randolph Clark came to Texas dedicated to a common goal: To help meet the great need for higher education in what would be the "New South." The Clark brothers obtained a state charter and opened their school in the fall of 1873 at Thorp Spring, near Fort Worth. They called it "AddRan Male and Female College." Thirteen students turned out for classes on that first day almost a century ago. The school's original name—joining the first syllables of each brother's given name—has been retained by the AddRan College of Arts and Sciences, TCU's largest school.

In 1889, the Christian Churches of Texas took over and changed the name to AddRan Christian College. In 1895, the school was moved to Waco. A year later—on Thanksgiving Day in 1896—the first Fighting Horned Frog football team took the field. It was the beginning of TCU's proud tradition in varsity athletics—a winning tradition. The record speaks for itself: **Since TCU entered the Souhwest Conference in 1925, only one school has won more SWC games.**

This winning record proves that the philosophy guiding TCU's varsity athletic program is a winner. It may have been stated best a few years ago by the late M. E. Sadler, who was Chancellor during some of TCU's most significant years. Dr. Sadler put it this way:

> "In these days of frequent outcry against 'pressure' athletics on college campuses, TCU is especially proud of its record . . . Many generations of fine young men directed by coaches with high standards, have given us hard fighting teams and deep traditions . . : We have never 'fired' a coach for not winning. One was dismissed—in 1909—for playing the ineligibe brother of an ineligible boy. But there has never been a win-or-else policy at TCU. We love to win, but never at the expense of something more important to us all. All we have ever asked of the men who coach and the young people who compete is that they do so honorably—and as hard as they can."

In 1901, the name was changed, for the last time, to Texas Christian Universiy. In 1910, after fire destroyed the main building on the old Waco campus, TCU was moved for the last time—back to Fort Worth and its present location on a hill in the Southwestern part of the city. A few years ago, TCU acquired from the city of Fort Worth a 106-acre, adjacent golf course. This expanded the campus to a total of 243 acres and gave TCU plenty of room for growth.







Ex-Lettermen's Lounge— A Place To Relax

The TCU Ex-Lettermen's Clubroom offers Horned Frog athletes, past, present and future, a place to meet and relax.

Each Tuesday and Thursday evening, Mrs. Paul Vinsant opens the lounge for athletes to bring their wives or dates while enjoying refreshments, dancing, games or just shooting the breeze. On these nights, the Clubroom is restricted to use by the athletes only for informal social get-togethers.

It is used year-around by past and present TCU athletes and coaches along with their families and guests. Many people watch the Saturday games from the Clubroom. It is also a spot for the coaches to get together during the day over coffee while making plans for that afternoon's workout.

The clubroom is equipped with a complete kitchen, color television, stereo, free-play juke box and Coke machine.

It was built in 1964 at a $75,000 cost with contributions from TCU ex-lettermen of all sports.





Jim Garner, TCU's Sports Information Director, and star running back Norman Bulaich.

Your Chances for National Recognition While Playing at TCU are the Very Best.

Horned Frog Press, TV Coverage at Home

TCU is blessed with three large, daily, local newspapers and six television stations, all covering Horned Frog sports with pride and interest.

The Fort Worth STAR-TELEGRAM, has both morning and evening editions each of which reaches into more than 300,000 homes, all the way west to New Mexico and south to Austin. STAR-TELEGRAM sports writers and photographers cover daily Horned Frog workouts in detail. As well as games at home and away. Most Horned Frog athletes come from towns and cities in the STAR-TELEGRAM circulation area. Most of the people back in the home towns of the TCU players grew up reading the STAR-TELEGRAM.

The Fort Worth PRESS is an energetic, dedicated newspaper which concentrates it circulation in the Greater Fort Worth area, an area with a population of more than 650,000. The PRESS' coverage of TCU varsity sports has helped produce some of the nation's best-known sports writers.

TCU television coverage equals that of any university in the country. Four VHF channels, a UHF channel and an educational channel serve the Fort Worth-Dallas area—a population center with more than two million people.

Regardless of the extent of his talents, a college athlete must be promoted properly before he is named on All-America and All-Conference teams. The strength of his team's opponents has a great deal to do with this promotion, of course, and TCU's schedules outside the conference are as tough as anybody's anywhere. (See future TCU schedules on page 11.) Equally important is the reputation and ability of the potential All-American's sports publicity director. TCU is strong in this department also.

Jim Garner, a 1965 TCU graduate, joined the staff in the spring of 1969 as sports information director. As a former sports writer, and having studied both journalism and radio-television in college, Garner has a good working knowledge of all facets of the mass news media.

In the past, TCU sports information directors have had a hand in turning out 24 All-Americans and **over 100 All-Southwest Conference selections. Twice** the TCU football brochure, "Frog Facts," has been recognized as the best in the nation and the basketball edition has won the honor once.

The point of all this about Jim Garner and his TCU sports publicity department is this:

No other university in the conference—and very few anywhere else—can match TCU's record for "all-time" football greats. The tradition of the All-American TCU athlete is established solidly in the minds of the nation's sports writers and fans everywhere, not just in the Southwest. This means that they always take a good close look at TCU teams before they pick their All-Star teams. No matter where you go fans know about such TCU greats as Sammy Baugh, Davey O'Brien, Johnny Vaught, Ki Aldrich, I. B. Hale, Jim Swink, Bob Lilly, Tommy Crutcher, Kent Nix, and John Ruthstrom.



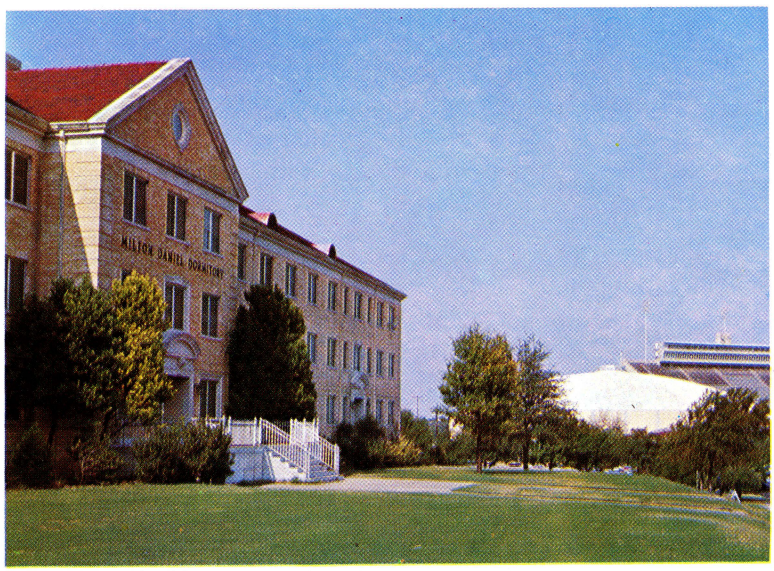
Home on the Campus for TCU Athletes is Milton Daniel Dorm

"Home on the Campus" for TCU's student athletes is Milton Daniel Dormitory. One of the newer campus dormitories, Milton Daniel is completely air-conditioned and handily located near classrooms and the athletic complex.

The rooms are comfortable and functional, as well as attractively furnished with dressers, study tables and chairs, and twin beds with innerspring mattresses. Each room has two large closets, a sink with hot and cold water, and venetian blinds. An athlete and his roommate may or may not choose to add some of those extra, "homey" decorating touches. The rooms are provided as the TCU athlete's personal and private residential haven within easy reach of all University facilities.

Living together in Milton Daniel dorm does **not** mean that TCU athletes are segregated from the mainstream of campus life. This arrangement only simplifies and expedites the many activities this particular group of students has in common as athletes. At TCU, as a matter of fact, athletes always have participated generously in a wide variety of student activities, with many athletes taking positions of leadership in various other organizational and student government affairs.

The coaches feel that by living in one dormitory a team's effectiveness as a coordinated unit can be greatly increased.



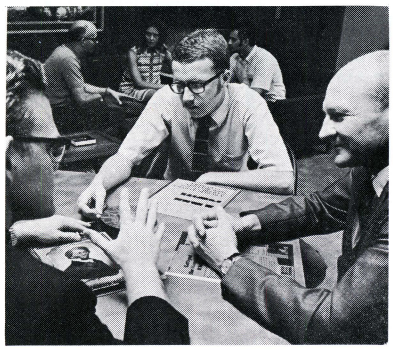
Team members from different high schools and coaching backgrounds get to know each other better, off as well as on the playing field by sharing living experiences.

The athletic dormitory at TCU—just as the other 13 residence halls on campus—has special study halls and lounge areas that are attractively and comfortably furnished. The lounges and the snack bar are popular spots for bull sessions and other informal gatherings—such as entertaining visiting parents.

In no other surroundings can the new student gain such an easy, quick, and well-informed adjustment to university life. Many Ex-Horned Frogs look back on the group living experience of dormitory life as a high point of their college days. It was here, they say, that they made lifelong friends and learned how to live with people outside their own families.



The Robert Carr Chapel



The Campus Ministers' office provides a center for religious counseling for more than 40 religious groups by ministers from all faiths.

Supporting or disturbing the performance of every athlete in every athletic contest is that athlete's personality, his beliefs or lack of them, his attitudes, whims, dreams, problems, his motivations—everything he stands for and hopes to stand for is called upon in miniature during the drama of a rugged game.

Jim Pittman, TCU head football coach, believes a young man must be mentally "tough" to excell in athletics, as—he must be to excell in life itself. But being mentally tough, according to Coach Pittman's definition, does **not** mean being callous, hard, or cynical. It does mean owning a strong fibre of faith in oneself and one's fellow men. TCU coaches have discovered that many athletes are aided in keeping, or gaining, such a faith through an organization called the Fellowship of Christian Athletes.

The TCU chapter of the Fellowship of Christian Athletes has been very active. The chapter's leaders have included some of TCU's top athletes, such as Steve Judy and John Ruthstrom of the 1970 Horned Frog football team.

A summer camp at Estes Park, Colorado, is popular with Christian Athletes everywhere. At this beautiful mountain retreat, TCU athletes each summer join outstanding athletes and coaches from throughout the nation for a lot of fun and some serious talk. More than 800 high school and college athletes and coaches gathered at Estes Park for the 1967 national summer conference.

Purpose of the organization is to challenge athletes and coaches to influence through Christianity younger people who admire them because of their athletic prowess. These young men know that Christianity "is not just for old ladies and children."

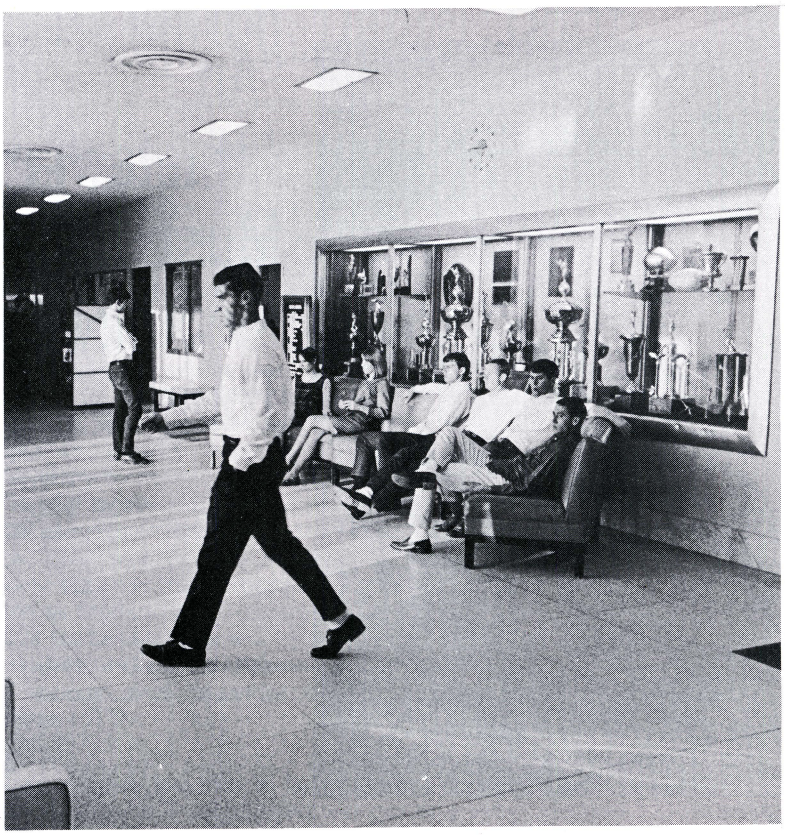


The TCU Chapel

"An Athlete Must Be Mentally Tough"



Student Center is the Hub of TCU Campus Life

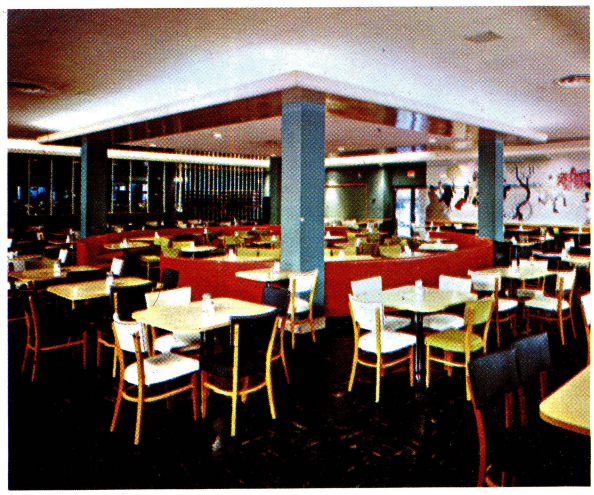


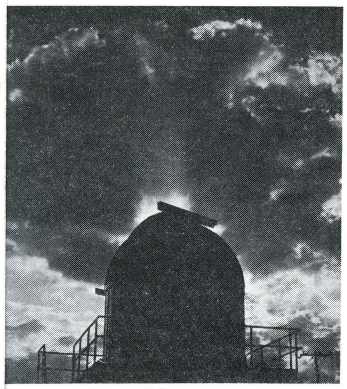
The hub of student life on campus at TCU is the Brown-Lupton Student Center, located approximately at the center of the campus.

Completed in time for the 1967 fall semester was a million dollar expansion and remodeling project on the popular student hangout. Added were two-story wings to the south and north ends of the old structure and basement facilities running the entire length of the building. With 30,000 square feet of additional floor space in all, the Snack Bar was moved underground and enlarged to accommodate about 400 people. The University Book Store was tripled in size and converted to a "shopping mall" arrangement for self-service.

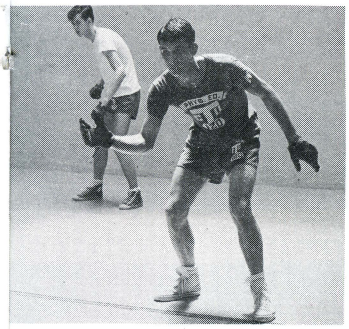
The expansion project also included a new lounge area, a new office suite, new dining rooms, and eight new meeting rooms. There is also a student recreation room with pool and ping pong tables.

The TCU Student Center compares favorably with those to be found at universities with enrollments many times larger than TCU's. This fine facility is more evidence that TCU is operated with the student's interests foremost in mind.

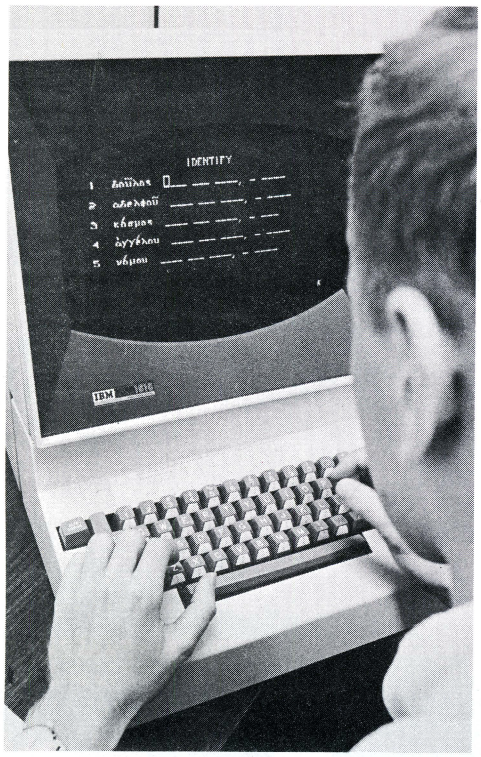




Ames Observatory



Handball Courts



Computer-assisted Instruction



Rifle Range

Special Academic Programs:

Ranch Management Program
9-month certificate program including classroom instruction and field trips

Honors Program
Pre-Honors for freshmen and sophomores
Honors for juniors and seniors
Experimental Honors Curriculum

Living-Learning Center
Innovative classroom and group living experience for freshmen, with upper-level students sharing in program.

Foreign Study Program
Annual summer study tours of Europe
Resident foreign study programs

Educational Facilities

The major facilities at TCU include:

Mary Couts Burnett Library—710,000 items and over 3,400 periodicals and newspapers received regularly. Open stacks, graduate carrels, microfilm and typing rooms. Cooperative systems with other academic and public libraries.

Other Libraries—Education-Curriculum, Business, Fine Arts.

Foreign Language Laboratory with special recording and listening booths.

Computer Center with three second and third generation computers to support academic, research and administrative needs.

University Theatre providing intimate theatre for campus drama.

Radio-TV Studios with student-operated station KTCU-FM which broadcasts daily to campus and community.

Speech-Hearing Clinic for work in communication pathology.

Ames Observatory

Starpoint School for children with learning disabilities, coordinated with School of Education.

Pastoral Care Center, coordinated with Brite Divinity School.

Living-Learning Center—innovative program housed in a residence hall provides classroom and group living experience for freshmen, with upperclassmen assisting.

Science Research Center—New $7.6 million center for physical, life and behavioral sciences designed to encourage close contact between undergraduate, graduate and faculty activities in the sciences.

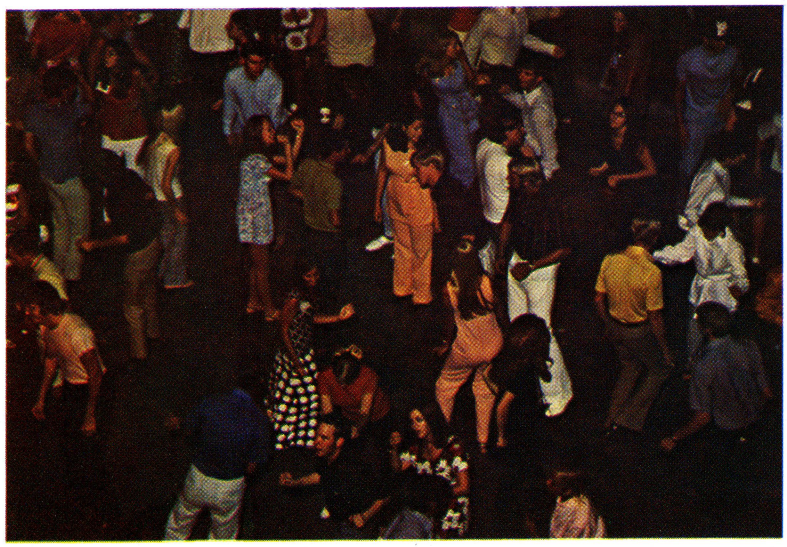
TAGER-TV (The Association for Graduate Education and Research—in North Texas) providing academic television in cooperation with other institutions and industrial firms.

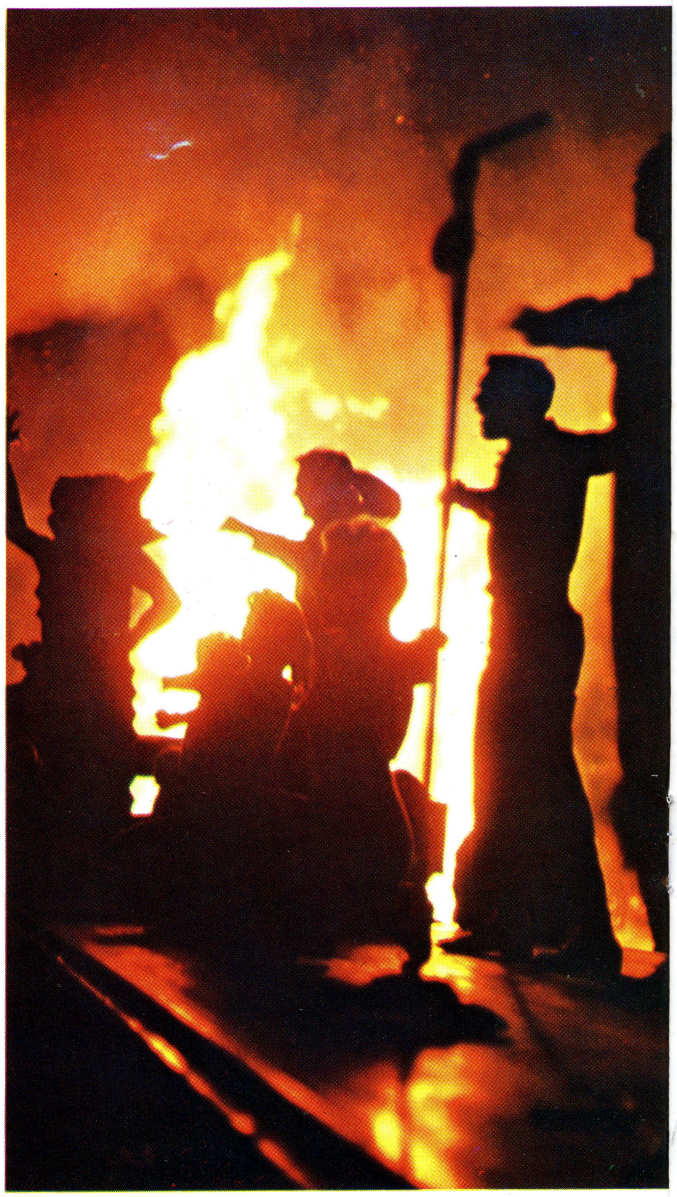
Research Institutes—Institute of Behavioral Research, Institute for the Study of Cognitive Systems, Instructional Systems Institute (Computer-Assisted Instruction).

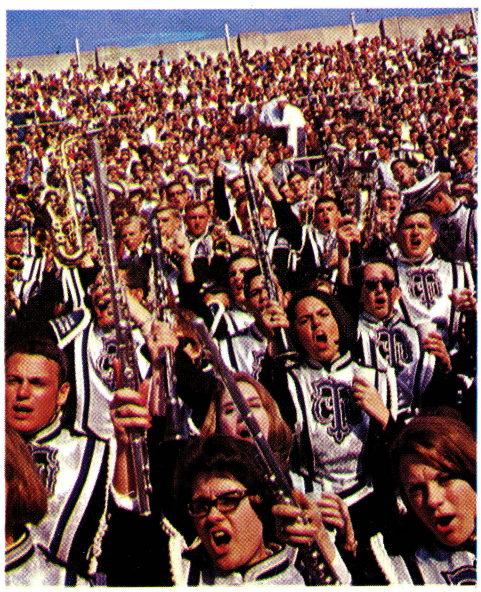
Other Facilities include Harris College of Nursing and Home Economics Building (under construction), newly completed Leo Potishman Tennis Center, Cyrus K. and Ann C. Rickel Health and Physical Education Center (planned).

Fightin' Frogs Do Not Live by Books Alone

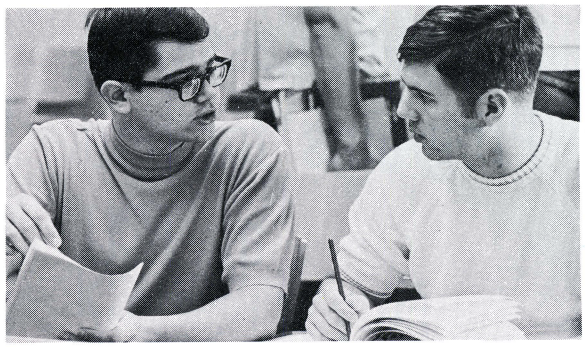








TCU is Geared to Educate Individuals



One of our students says, "At TCU people are important! We still use names, and we believe there is something to be gained by small classes and many occasions for faculty-student involvement. Part of this fact lies in the middle word of our name. To forget this heritage would be to sacrifice a vivifying asset. Our uniqueness and strength must be in a personalized education and adherence to the preservation of a people-centered place. This and the heritage that affirms the ultimate worth and dignity of the individual are TCU's greatest strengths."



TCU is a learning **community.** Students and teachers experience the traditional classroom relationship, but it doesn't end there. Undergraduates participate in research with recognized brilliant scientists, students and faculty take field trips together, work alongside in campus activities, talk across a cup of coffee, learn to know and respect the other's contribution to the life of the University. The personal relationship between teacher and student is the heart of the educational process at TCU . . . faculty-student ratio is low and most classes are small.

TCU's academic standards place it among the leaders in the Southwest. We seek the highest accreditations just as we strive for high quality in our athletic teams.

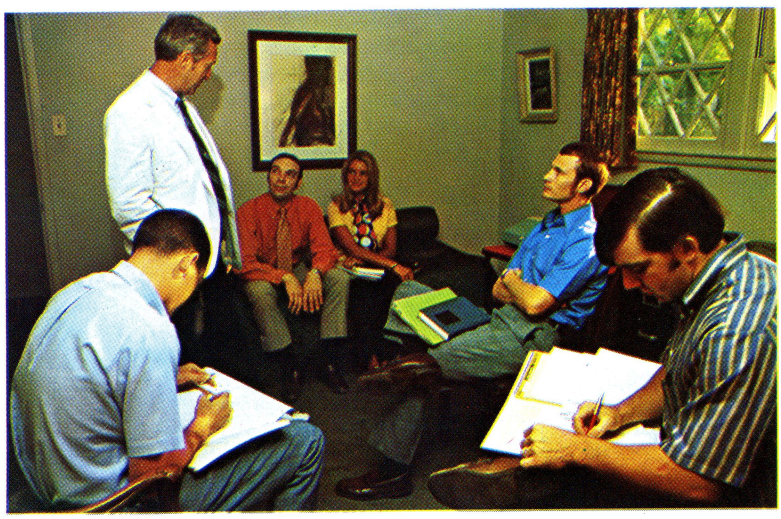




TCU is related to the Christian Church (Disciples of Christ), but is governed by its own Board of Trustees, made up of outstanding citizens of many denominations and faiths. The faculty and spirit of TCU are ecumenical and students of every faith and denomination are welcomed.

About 6,500 young men and women come to TCU each semester from almost every state and about 30 countries outside the U.S.

Although the growth in size of TCU is controlled, the growth in quality of the University has been explosive during the last twenty-five years. TCU's academic affiliations and accreditations compare favorably with any institution of higher learning of any size. TCU was a charter member of the Association of Texas Colleges. It was elected to membership in the Association of American Colleges in 1921 and has been a member of the Southern Association of Colleges and Schools since 1922. TCU is now a member of Phi Beta Kappa, considered the highest recognition that can be awarded to a college in the liberal arts. Down through the years, TCU faculty members and administrators have served as top officials in these and other associations and agencies, of both regional and national scope.



The tuition of TCU is higher than that of state-supported institutions because TCU receives no public funds for its general operation. Students are guaranteed that their tuition rate will not be increased during the normal four years of an undergraduate program. TCU offers numerous academic scholarships, considering financial need and academic excellence. This assures TCU of getting top students regardless of their financial resources. A grant-in-aid athletic scholarship to TCU equals a great deal more in cash value than at most other schools in the Southwest.

Pre-professional Programs for you at TCU

DENTISTRY
ENGINEERING
LAW
MEDICINE

If you are planning to become a doctor or dentist, you'll find a highly regarded *pre-medical* and *pre-dental* program coordinated through TCU's Department of Biology. Some of TCU's outstanding pre-med students have been members of the Fightin' Frog teams, and the athlete's scheduling problems—involving laboratory time and the like—can be solved at TCU if you are willing to exert the cooperative effort necessary.

TCU *pre-law* graduates have done well at law schools throughout the Southwest and the nation.

Government is the most popular undergraduate major for pre-law students. All law schools now recommend that applicants complete work on a Bachelor's degree before entering law school. Many law schools require the Bachelor's degree as a prerequisite for admission.

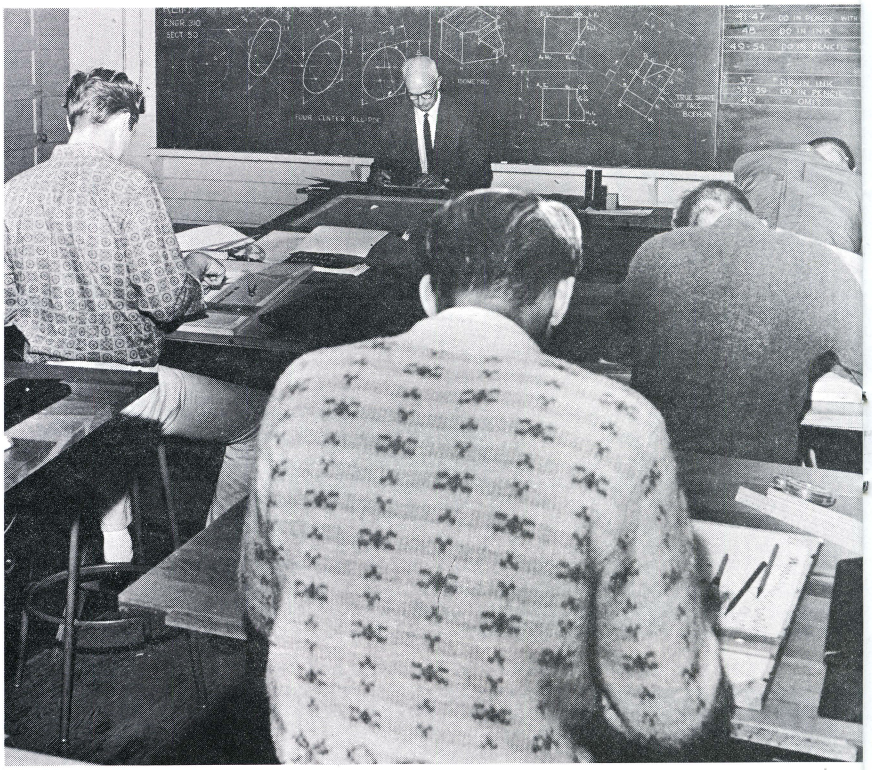
TCU pre-law graduates now practice law with distinction in all parts of the United States.

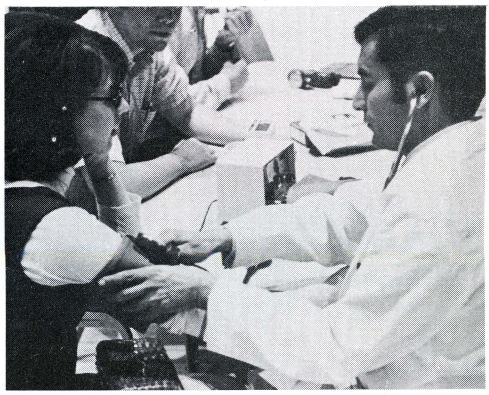
Pre-engineering at TCU means a thorough study of the sciences—

Are you one of the many people who confuse **"engineering"** with **"science?"** The two fields are related but not at all the same. Engineering doesn't qualify as a science.

Through its program of concentrating on academic growth in "depth" rather than size, TCU offers outstanding opportunities for study in the sciences. That is, in physics, chemistry, biology, geology and mathmatics. Ph. D. degrees are offered in these fields by departments having the highest possible accreditation. TCU has deliberately **chosen not** to go into Engineering education on a major scale, although it does offer cooperative engineering and pre-engineering programs. All these TCU science departments will be quartered in the new $7 million Science Research Center.

The point is that American industry demands simply that the job be done. In many cases, the scientist is better equipped to do the job than the engineer. Industry knows this. If you are thinking about your future in terms of **engineering,** maybe you should investigate the possibility that TCU can prepare you to do that job better as a **scientist.**

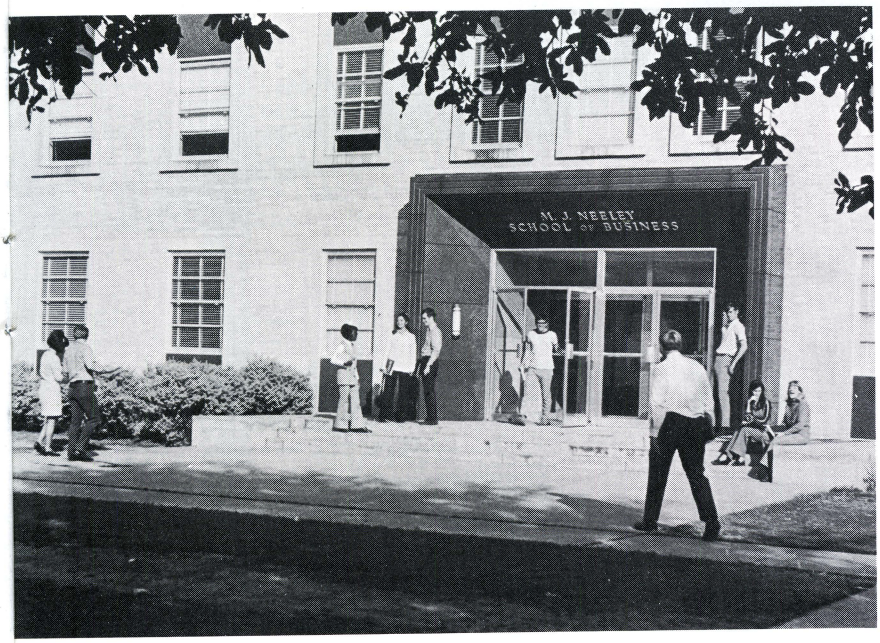






DR. JIM SWINK, one of TCU's all-time great All-American halfbacks, is shown "checking up" on his Horned Frog coach, TCU Athletic Director Abe Martin, not long after becoming an M. D. Dr. Swink was an honor student as well as an All-American athlete. He is one of a number of practicing physicians who were varsity athletes at TCU during their undergraduate years.





Prepare for a Successful Business Career Through Programs in TCU's M. J. Neeley School of Business

If you are aiming for a successful career in business —as many athletes are these days—the M. J. Neely School of Business of TCU offers you a professional education by a faculty that is experienced both in business and business education.

Also, the vast metropolitan complex surrounding the TCU campus is a Big League laboratory for the practical application of your academic programs in all major business fields. In addition, you will find job opportunities as a graduate in the Fort Worth-Dallas business center of the Southwest.

As the business world grows increasingly complicated and fast-moving, the need for a thorough understanding of the entire business operation becomes more and more necessary to all businessmen. Both education and opportunity for practical application of that education are available through the facilities of the TCU School of Business.

The TCU School of Business is one of only four in the state that is accredited by the American Association of Collegiate Schools of Business at both the graduate and undergraduate levels.

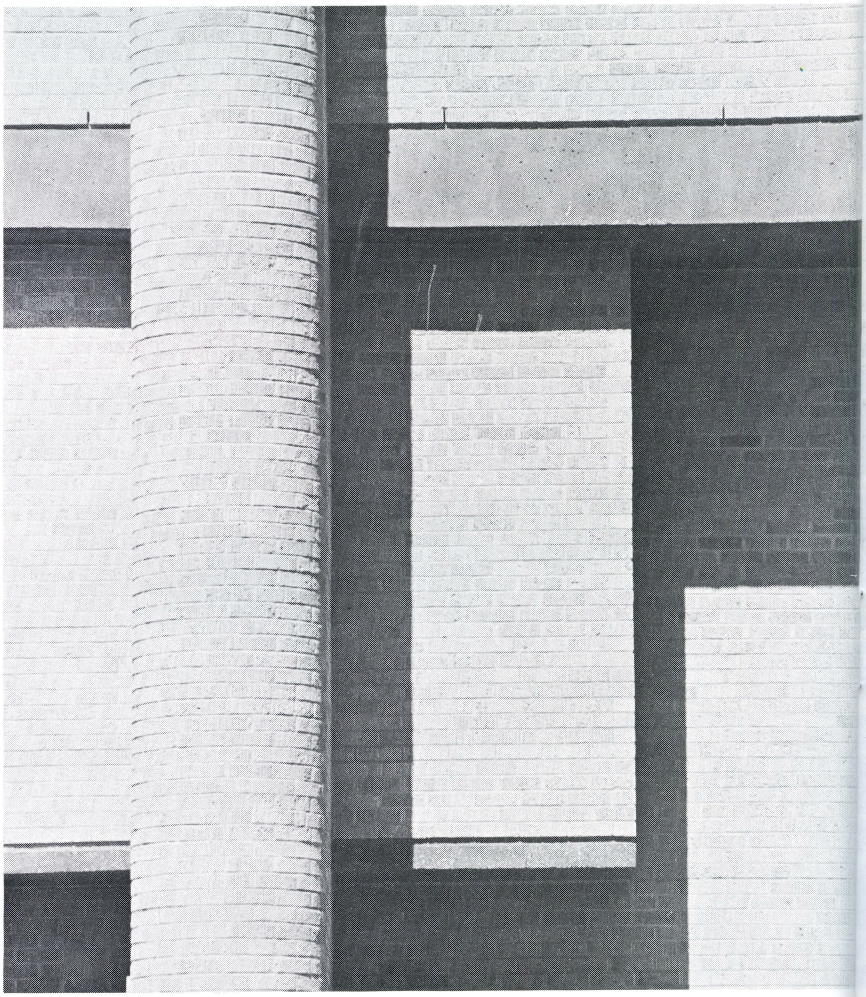
Professors in the School are keenly interested in all their students as individuals, athletes included. Many business professors are enthusiastic sports fans. Dr. Kenneth Herrick, of the Business School faculty, for example, is TCU's faculty representative to the Southwest Conference.

The School of Business is housed in Rogers Hall, a modern air-conditioned building with up-to-date teaching facilities, visual aids, and business library. Most classes are small enough for maximum individual attention.

Eighty-six percent of the business faculty have Ph.D., or equivalent, degrees from the nation's most prestigious universities.



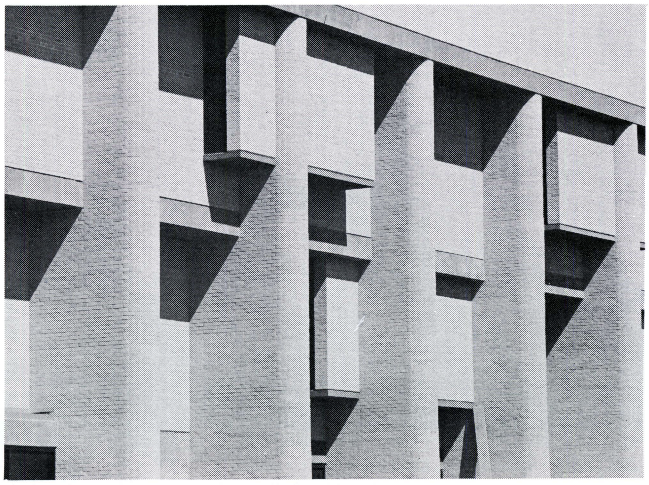


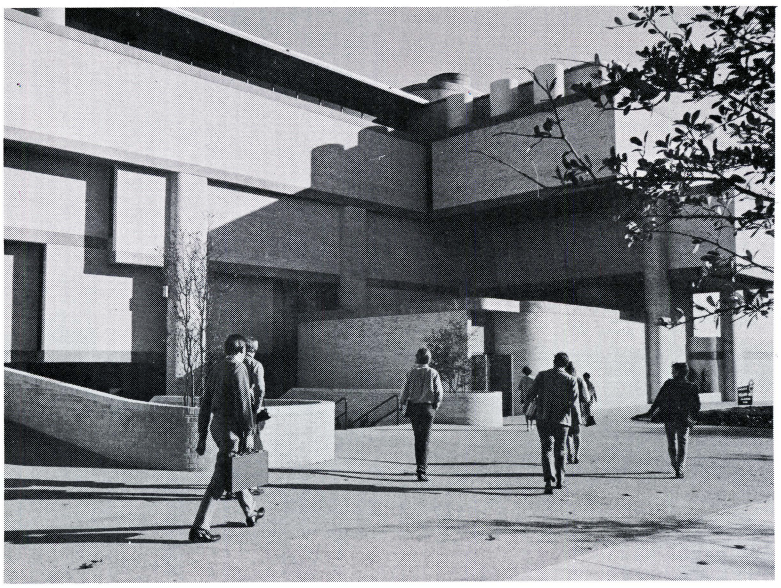


Sciences Housed in "Work of Art"

Sid W. Richardson
Physical Sciences Building









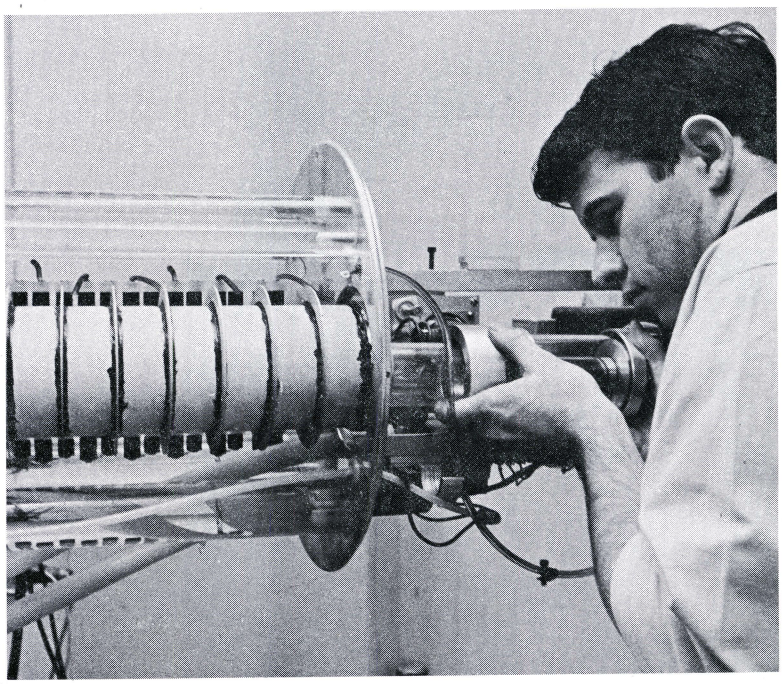
The dramatic Sid W. Richardson Physical Sciences Building has been called "a place that shows that exciting things are happening." And "what's happening" is highly-rated study and research by students preparing for careers as scientists.

The new building houses work in geology, physics, chemistry and the TCU Computer Center. It is connected to Winton-Scott Hall, which formerly housed all the sciences but has been converted to use by psychology, biology and mathematics. Together, the two buildings are referred to as the TCU Science Center, and $7.6 million was spent to build the new structure and convert Winton-Scott to its new uses.

Most important part of the design, perhaps, is the way it encourages a sharing of ideas: Undergraduate studies, for instance, are located near high-level research laboratories and faculty offices so that there's frequent contact between all persons interested in the same field. And all the sciences are near each other, promoting an atmosphere where the important "cracks between the disciplines"—the problems that depend on the knowledge of two or three science specialties—can be explored.

Students use scientific instruments so new that they could not be included in the design of science centers built only three or four years ago. Perhaps indicating the personalized nature of science education at TCU, the new building has 277 rooms but only seven of them are lecture halls—and the largest lecture hall seats only 200 students.

Paul Rudolph of New York City, internationally-known architect who designed the new building, may have described it best when he said: "I know of no other campus that has attempted to house the best of the sciences within what is hopefully a work of art."



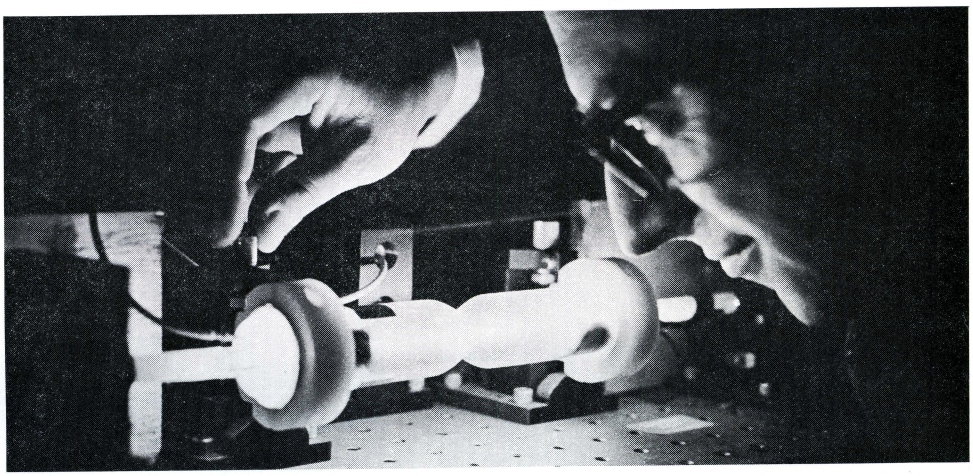
PHYSICS

The undergraduate program in **Physics** at TCU is a demanding one, leading to an understanding of the fundamental laws of the physical universe. You will join with other students majoring in physics who have an interest in the natural sciences, a flair for mathematics, and an inquiring mind.

Physics courses—even the introductory ones—are taught by the same scientists who conduct highest-level research. At TCU, all 10 physics faculty members hold the Ph.D. degree. You will learn from them in small classes, usually with a dozen or fewer students, and in well-equipped laboratories where you will gain experience in the latest experimental techniques.

The man trained in physics is a problem-solver. He helps develop, test, and supply products related to computers, lasers, aerospace systems, communications systems, electronic devices, new sources of energy. Preparation for this work on the frontiers of science and industry is offered at TCU.

Above, graduate student conducts experiments with the Electron Accelerator.
Right, Optical physics research is conducted with the use of a laser beam.
Below, attention is given to a chemistry research project.

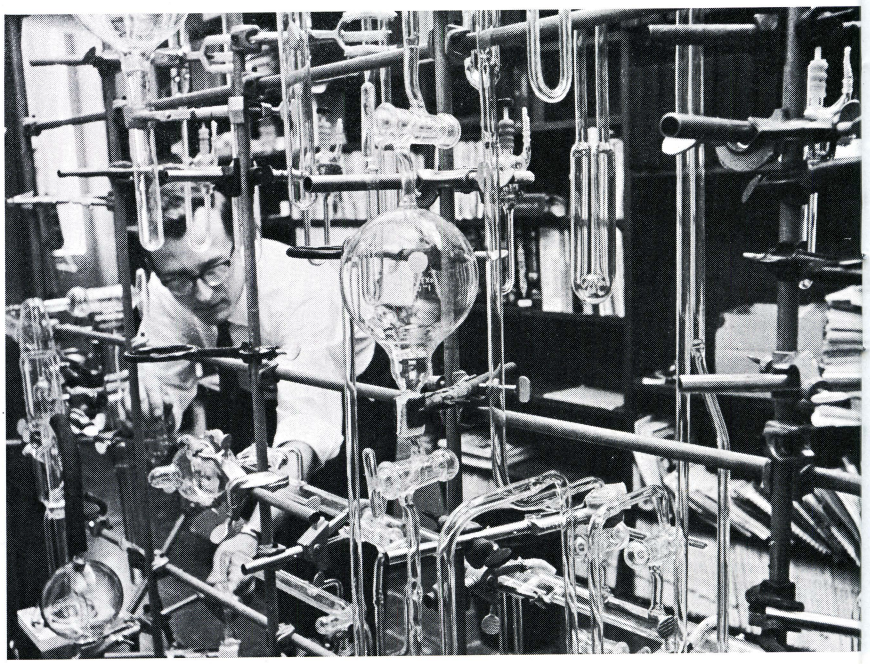


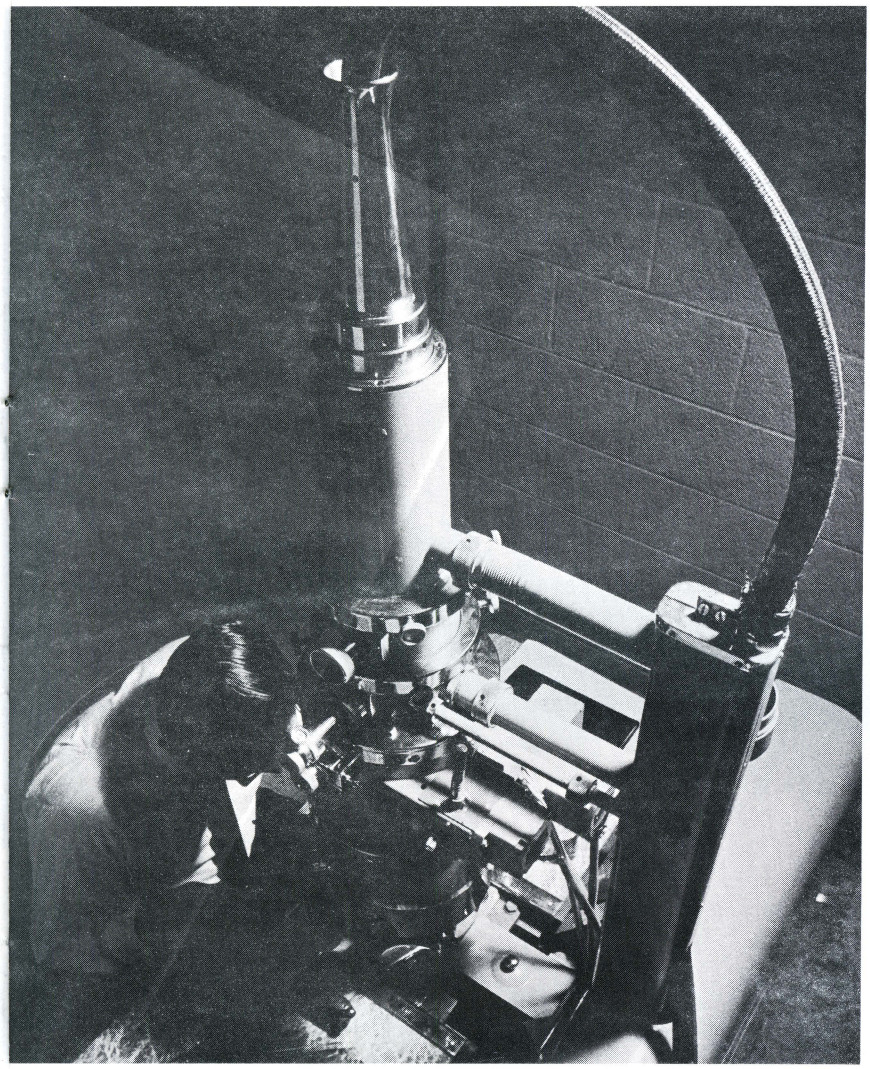
CHEMISTRY

There are more scientists in the field of **Chemistry** than in any other natural science. At TCU frontiers are being pushed back with research and education in chemistry. If you are interested in entering any of the many vital fields of chemistry—in medicine, industry, research—the program at TCU has the curriculum and equipment equal to the most modern in the country.

The TCU Chemistry Department is accredited by the American Chemical Society. Classes beyond the freshman and sophomore level are all small enough to afford more individual attention for the chemistry major than at a university geared for a larger enrollment. Undergraduates may participate in faculty or graduate student research projects.

The TCU graduate program in chemistry is still young, with an imaginative and highly skilled faculty of 9 men, 8 of whom hold the Ph.D. degree. All of this is important to you in providing a stimulus to do your best.





BIOLOGY

The Department of **Biology** offers you the challenge to become intimately involved in the excitement of discovery. You will seek to describe and understand the workings of all living organisms. You will become an explorer in a whole new universe of worlds. You will attempt to learn how organisms solve the problems presented by the environment which makes up their world.

At TCU adequate equipment is available to give you a firm foundation in field and laboratory techniques. The 13 member faculty, 11 of which hold Ph.Ds., is carefully selected for its interest in keeping up with advances in the field—often making major contributions to new knowledge—as well as its interest in conveying such knowledge to students. This relationship with the faculty helps you as a student to acquire a true insight into the philosophy and methods of biology.

Research opportunities are numerous for the undergraduate. You may select from such projects as fish in local lakes, bacteria and other organisms in sediments and water in the Texas Gulf Coast. You may extract and study DNA of yeast, test hormone effects on crayfish, investigate virus action on bacterial cells, analyze serum or organs of infected animals, look into intricate details of cell structure.

TCU's wide range of biological work will allow you to select those employment opportunities which are of greatest interest to you and of greatest benefit to mankind.

Left, A biologist studies highly magnified specimens with the aid of the electron microscope.
Below, Geology field trip.

GEOLOGY

Exciting things are happening . . . within the new Science Research Center at TCU.

The **Department of Geology** offers a strong undergraduate program emphasizing the foundations on which you can build a career in the earth sciences. You will be studying with geologists who have a high reputation within the profession and who are skilled in teaching. The 7 faculty members all hold Ph.D. degrees. Their backgrounds are varied and include many of the specialities which make up geology today: mineralogy . . . oceanography . . . geochemistry . . . regional tectonics . . . economic geology.

You will find strong encouragement to take part in research. Undergraduates have worked on offshore Puerto Rico mineralogic analysis, rare-earth minerals from Central Texas, hydrothermal synthesis of silicate minerals, analyses of soil profile from Puerto Rico and many other projects of scientific importance.

The TCU Geology Department is geared to serve the precise demands of modern geology and offers its students the education to become scientists, capable of handling field investigation and experimentation in competition with engineers and other scientists. Thus, the department is structured to encourage work past the undergraduate degree.



PSYCHOLOGY

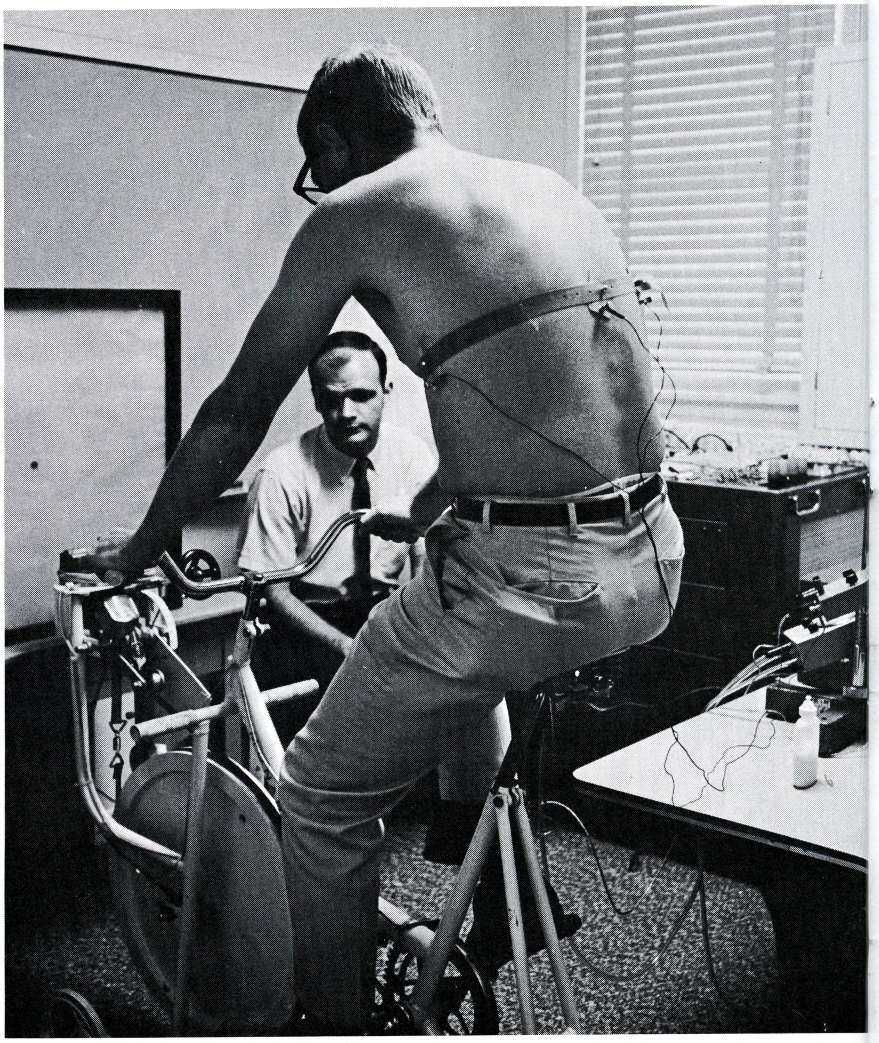
TCU's program for a degree in **Psychology** will help you become familiar with man's endeavors in the arts, the humanities, the social sciences, the natural sciences. At the same time you will gain some understanding of methods used in the behavioral science that is psychology.

Psychologists teaching at TCU have high reputations within the profession. Most are involved in research chosen for support after its significance was reviewed by a national panel of scientists. Two of TCU's most productive organized research units—the Institute of Behavioral Research and the Institute for the Study of Cognitive Systems—are directed by psychologists.

You will have opportunity for close associations with faculty scientists, in and out of the classroom. This 15-member faculty includes 14 holders of the Ph.D. degree. Many of your classes will be small, with 10 to 15 students, and will include weekly periods of experimentation in well-equipped laboratories.

As you progress, you'll be encouraged to take part in research. TCU also has a strong graduate program in psychology which revolves around research. Participation will be of particular benefit if you intend to do graduate work in this field.

A graduate degree is becoming the minimum requirement for professional employment. About 65 per cent of today's psychologists have earned Ph.D. degrees. This advanced opportunity is also available at TCU.



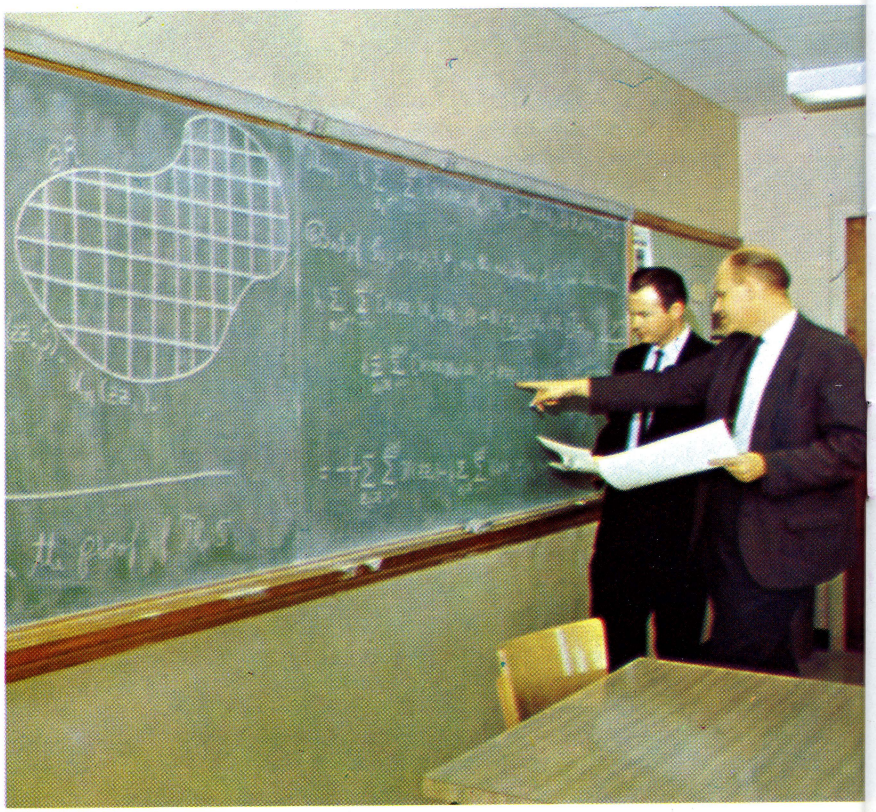
MATHEMATICS

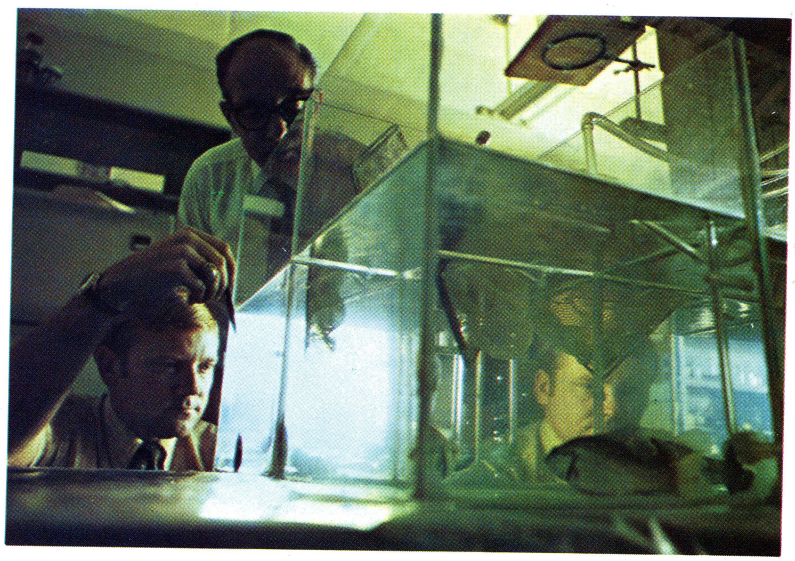
Some of the exciting new professions of this electronic age are firmly based in **Mathematics.** TCU offers work leading to the Ph.D. in this important area and in the latest math field—Computer Science.

The TCU Mathematics Department constantly adjusts its courses to the dynamic demands of modern, mathematics-oriented business and industry. Mathematics is a fundamental science of most aeronautic and electronics industries. Many astronauts were math majors.

Eleven of the 13 professors in the TCU Math Department have Ph.D. degrees. Classes are relatively small so professors may give maximum attention to each student.

The program in Computer Science has three purposes: To supplement your preparation for one of the careers influenced by computer technology; to give you a sound introduction to computer science, serving as a basis for further development after you enter business or industry; or, if combined with intensive study in mathematics, to lead you toward graduate study in computer science.





Inter-departmental Programs Include: URBAN STUDIES, ENVIRONMENTAL SCIENCE, GEOPHYSICS



Among TCU's inter-departmental programs, the unique **Urban Studies** program, the first to be established by a Southwestern university, leads to a second major field toward a B.A. degree or a certificate for persons planning for phases of urban planning work. Courses and projects are coordinated by the economics, geography, government and sociology departments.

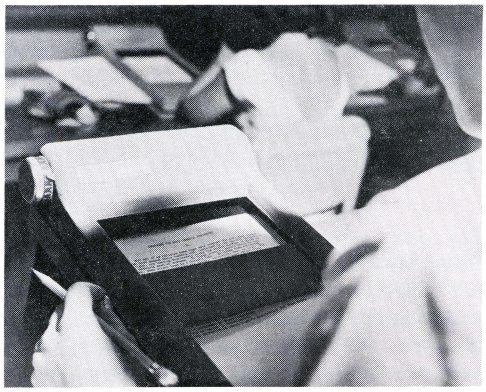
Environmental Science is a new program at TCU, calling for concentrated study in biology, geology and chemistry and other work in physics, mathematics and government. It is designed to help you prepare for advanced study in this critical field or for the growing number of private industries and governmental agencies which are involved in protection of the environment.

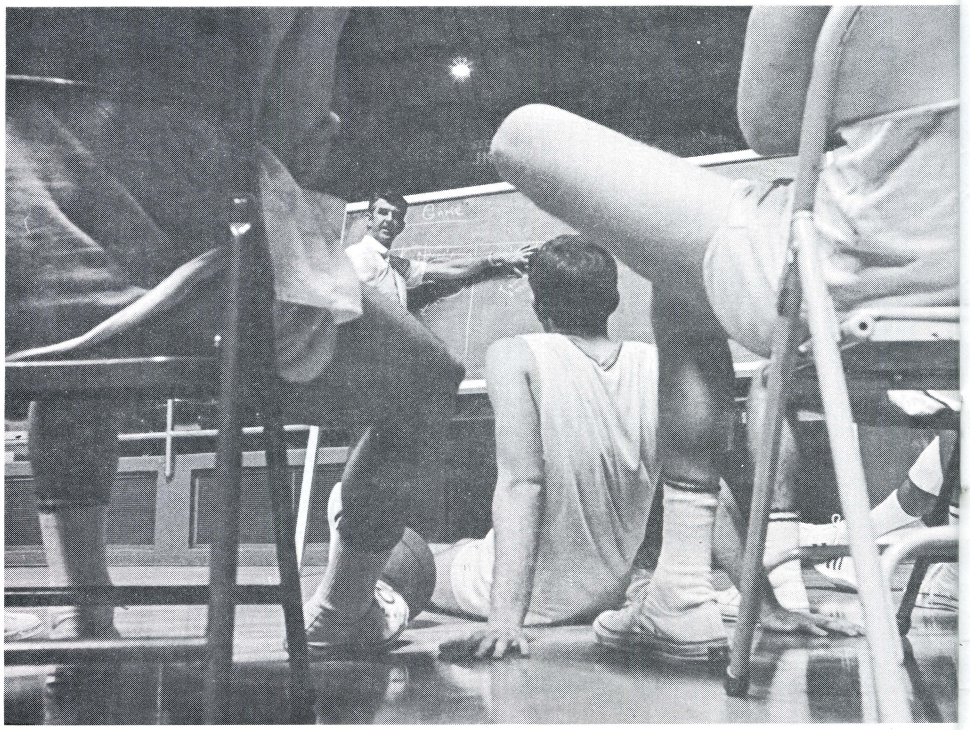
A new four-year study leading to a Bachelor of Science degree in **Geophysics** is in progress through the departments of geology and physics. It is designed for students planning advanced study or professional employment in this field.



Upper left, Water pollution research is part of environmental science program at TCU. Left, paticipants play a "land use" game in urban studies seminar. Above, professors often conduct informal classes in their homes.

Right, Future coaches learn from experienced teachers. Below, Reading laboratory in School of Education utilizes latest methods. Lower Right, John Ruthstrom wins the admiration of "his students."





School of Education Prepares Teachers and Coaches



If your plans are for teaching, TCU offers a creative and innovative program in **Education.** The School of Education at TCU has preparatory programs for students who wish to become elementary and secondary teachers, and also graduate programs to teachers who wish to continue academic work toward advanced degrees and additional professional certification.

The School is organized with four departments, Elementary, Secondary, Health and Physical Education and Special Education. The department of Health and Physical Education gives professional training to young men and women expecting to become instructors of health and physical education, directors of recreational programs or athletic coaches.

TCU believes in the importance of physical education as a necessary part of a complete education. Through outstanding faculty, adequate equipment and plans for an ultra-modern building, you are provided with the best possible program.

To be built within the near future, the Cyrus K. and Ann C. Rickel Health and Physical Education Building will be a comprehensive center for the physical well-being and development of all students.

The Center will include NCAA and AAU-approved swimming pools, areas carefully and expertly designed for gymnastics, handball, conditioning, rhythmics, dressing rooms, lounges, administrative offices, ballet study areas, and other facilities.



Study for a Profitable Career in RADIO-TV-FILM

Interested in broadcasting, television, film production? The Department of **Radio-Television-Film** in the TCU's Speech Department offers an excellent course of study, good facilities and many opportunities for you to be a part of "live" radio and TV program production.

The curriculum includes radio and television production, writing, advertising, news, operations and announcing. Other courses include cinematography, station management and film documentary.

Students serve internships with commercial stations as well as work with TCU's own community educational radio station, KTCU-FM. "New Look," a television program is produced by TCU students for KTVT-TV, Channel 11, a Dallas-Fort Worth commercial television station.

At TCU, you'll learn by doing. It's an excellent way to gain practical knowledge and experience in this exciting and important career field.

Graduate School Degrees Offered in 27 Fields

For those who are interested in study beyond the Bachelor's degree, TCU offers Master's degrees in over 30 major fields and Ph.D. degrees in six.

Doctor's degrees are offered in Chemistry, English, History, Mathematics, Physics and Psychology.

Masters degrees are awarded in the above fields, and also in these: Biology, Economics, French, Geography, Geology, Government, Music, Philosophy, Religion, Sociology, Spanish, Speech, Speech Pathology, Theatre, Public Administration, Business Administration, Accounting, Education (Elementary, Secondary, Guidance, Reading, Supervision), Medical Technology, Theology.

A special 60-hour certificate program in School Administration is also available.

To meet a growing need, there was initiated in 1964 a joint program of work leading to a Master of Science degree in engineering in cooperation with SMU in Dallas. This degree is now offered in electrical, mechanical, civil and industrial engineering. All classes are conducted on the TCU campus. Those interested in these engineering fields should obtain detailed information from the TCU Graduate School.

A growing number of TCU students are including Graduate School in their plans as more and more knowledge is demanded of those who would gain the most from working and living in our increasingly complex society. The TCU Graduate School is fully accredited and equipped to provide stimulating educational and practical experiences toward the achievement of that goal in the major arts and sciences.

Army/AF ROTC



The Army and Air Force Reserve Officers Training Corps programs at TCU offer Horned Frog athletes the opportunity to earn reserve officer commissions while in college and earn extra money too.

ROTC trainees at TCU learn to organize themselves and lead others and acquire other qualities that contribute to success in life. The big Military Ball held each spring is only one of a number of enjoyable ROTC-sponsored social events on the campus calendar.

The basic ROTC course for TCU freshmen and sophomores requires approximately three hours per week. Those who qualify for the advanced course receive $50 per month pay during the school year and $151.50 per month while attending summer camp.

Those who sign TCU athletic department "Letters-of-Intent" will receive material from the Military Science and Aerospace Departments of TCU detailing the two ROTC programs and inviting future Horned Frogs to investigate the programs.

If you have questions about either of these programs, ask a member of the TCU coaching staff or contact the Army or Air Force ROTC offices at TCU.

Journalism and Athletics An Exciting Combination

If you plan to be a newspaperman, magazine writer, TV newsman, advertising or public relations executive, you'll find that TCU's program is one of the best in the Southwest.

The TCU Journalism Department's News/Editorial sequence is one of the few in this region which is accredited by the American Council for Education in Journalism. The ACEJ is the only national accrediting group authorized by all the major media and professional organizations such as the American Newspaper Publishers Association, the American Society of Newspaper Editors, Magazine Publishers Association and the National Association of Broadcasters. About 50 of the nation's more than 300 journalism schools have earned accreditation by the ACEJ.

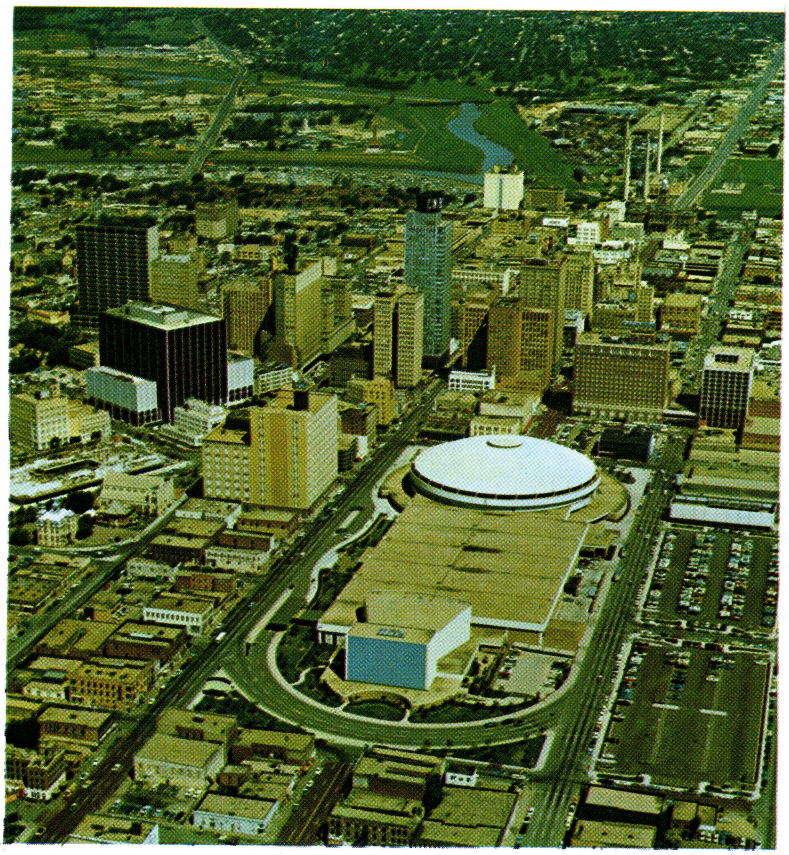
An obvious field for TCU varsity athletes with an interest in journalism might be sportswriting. As Americans have more and more leisure time, there is an increasing demand for well-trained, intelligent sportswriters with sports backgrounds. Being an athlete, of course, does not mean you must become a sportswriter. The TCU journalism major is encouraged to explore his potential in any specialized writing or editing field. Science reporting, industrial editing, politics, finance and medicine are a few of the specialized areas in modern journalism.

The courses of study offered by the TCU Journalism Department are deliberately flexible, so that each student may develop along the lines of his own interests and talents, including advertising, public relations, electronic media.



An "internship" program—in cooperation with newspapers throughout the state—offers TCU journalism students opportunities to work in newsrooms and advertising departments in the summer between their junior and senior years.



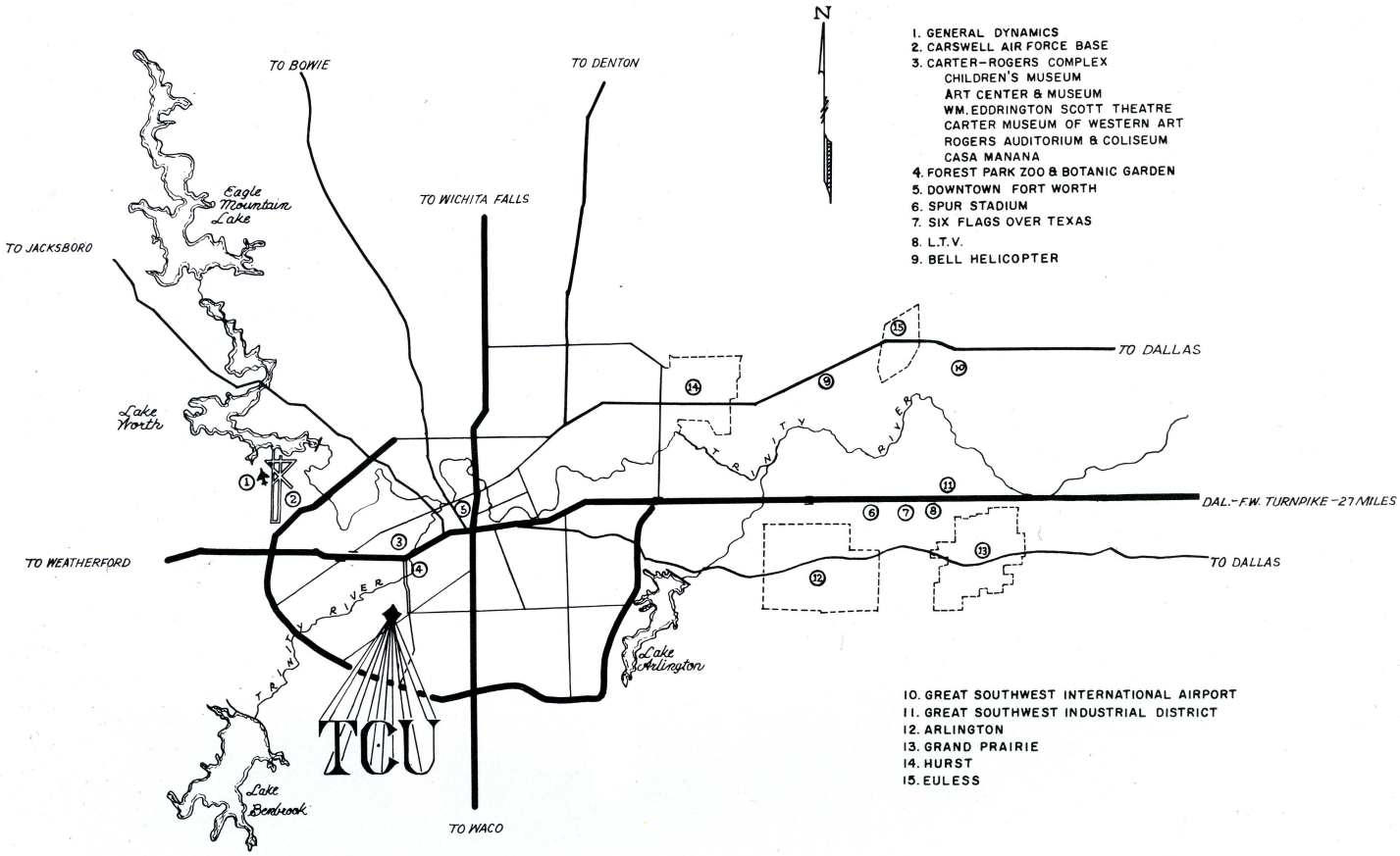


Living in the TCU Community

Located in one of the largest population centers in the nation, TCU and Fort Worth have maintained the best aspects of the small university and community, where individualism and friendliness are still cherished.

The nature of the community that is your home during your college years has a lot to do with how much you enjoy those vital years, as well as its influence on your life upon graduation.

The TCU campus is located in the Fort Worth-Dallas-Mid-Cities area where action is a part of life. Fort Worth's tree-lined boulevards and modern freeways put the TCU student within a short drive of all the advantages of big city life. Nearby are: WILL ROGERS COLISEUM, site of the world famous Southwestern Livestock Show and Rodeo; CASA MANANA, home of one of the nation's best summer musical companies; AMON CARTER MUSEUM OF WESTERN ART; the multi-million dollar WILLIAM EDRINGTON SCOTT THEATER, where stage entertainment of pro-



fessional quality can be seen year-round; the FORT WORTH ART CENTER; the FORT WORTH MUSEUM OF SCIENCE AND HISTORY; BOTANICAL GARDENS; FOREST PARK ZOO—all a part of the opportunities for culture and fun that Fort Worth offers.

Opportunities Galore

The changing skyline of downtown Fort Worth now includes the giant dome of the new twenty-million dollar county convention center, built to attract conventions by organizations and associations of national, international and regional scope.

Also vital to the TCU athlete is the fact that, regardless of his major field, he will find business and professional opportunities near the TCU campus. These opportunities include practical, "internship" jobs while he's still in school and chances to move into professional positions immediately after graduation. The TCU athlete often makes important business and professional contacts in the surrounding metropolitan marketplace, which includes (in addition to Fort Worth's 400,000 population), the Mid-Cities area (with 300,000 population and remarkable Great Southwest Industrial District spreading prosperously on both sides of the Turnpike) and Dallas only 27 miles to the east.

The Fort Worth, Mid-Cities, and Dallas metropolitan area is the very crossroads for the nation's primary business, financial, industrial, entertainment, and professional traffic.

Professional Football

The high-scoring DALLAS COWBOYS of the National Football League are the pro football heroes of the area.

TURNPIKE STADIUM, one of the nation's most modern baseball facilities, is the home of the Texas League "Spurs."

Opportunities in the Space Age professions are within the TCU community. The impressive list of Fort Worth's Space Age industries is headed by GENERAL DYNAMICS and BELL HELICOPTER. Numerous electronics and other related industries have grown up around these two leaders of the aircraft industry.

Plenty Of Action Nearby

There are plenty of places to have fun near the TCU campus, too. The "SIX FLAGS OVER TEXAS" amusement park swings all summer, and nearly all its employees are college students. EAGLE MOUNTAIN LAKE, LAKE WORTH, BENBROOK LAKE and others surround the city, for those who like water skiing, fishing, sailing or just loafing in the sun on a sandy beach.

The COLONIAL NATIONAL INVITATIONAL GOLF TOURNAMENT is held each spring at Fort Worth's Colonial Country Club—just a few blocks from the TCU campus. This is one of the top-ranked tournaments on the P.G.A. tour and is televised nationally. (TCU athletes have had no trouble landing jobs at the COLONIAL NIT each year.)

TCU Schools and Colleges

ADDRAN COLLEGE OF ARTS AND SCIENCES

Degrees:
Bachelor of Arts
Bachelor of Science
Bachelor of Science in Home Economics

MAJORS

Biology
Chemistry
Computer Science*
Economics
English
Foreign Languages
(French, German,
Spanish, Russian*)
Geography
Geology
Government
History
Home Economics
(Fashion and Interior
Design, Nutrition)
Journalism-Advertising
Mathematics
Philosophy
Physics
Psychology
Public Administration
Religion
Sociology

*Offered as minor

Inter-Departmental Programs:
American Civilization
International Affairs
Geophysics
Latin American Studies
Urban Studies
Environmental Science

Pre-Professional Programs:
Dentistry
Engineering
Law
Medicine

Intra-University Degree Programs:
Art, Music, Speech, Theatre (with School of Fine Arts)
Teacher Certification (with School of Education)
Business Administration (with M. J. Neeley School of Business)

Inter-Institutional Degree Programs:
Medical Art (with Southwestern Medical School of University of Texas)
Medical Technology (with Harris Hospital of Fort Worth)

Reserve Officers' Training Corps:
Aerospace Studies (U. S. Air Force ROTC)
Military Science (U.S. Army ROTC)

M. J. NEELEY SCHOOL OF BUSINESS

Degree:
Bachelor of Business Administration

MAJORS

Accounting
Business Management
Advertising
Computer Science
Economics
Finance
Insurance
Marketing
Personnel Management and Industrial Relations
Statistics
Office Administration—Secretarial
Business Education

Special Programs:
Two-Year Secretarial Certificate
Law and Business Administration

SCHOOL OF EDUCATION

Degrees:
Bachelor of Science in Education
Bachelor of Science in Physical Education

MAJORS
Elementary Education
Secondary Education
Special Education
Health and Physical Education

*Offered as minor

SCHOOL OF FINE ARTS DEGREES

Degrees:
Bachelor of Music Education
Bachelor of Science
Bachelor of Fine Arts
Bachelor of Music

ART MAJORS
Drawing, Design, Painting, Crafts, Ceramics, Sculpture, Commercial Art
Art Education, Art History and Criticism

MUSIC MAJORS
Applied Music Performance
(piano, organ, voice, band and orchestral instruments)
Theory and Composition
Music Literature and Musicology
Music Education
Church Music
Opera

THEATRE MAJORS
Ballet
Theatre
(acting, directing, play-writing, stagecraft, lighting, scenic design, makeup, costuming, history of theatre, children's theatre)

SPEECH MAJORS
Public Address and Interpretation
(public speaking, rhetoric and forensics, oral interpretation, speech education, voice and diction)
Communication Pathology
(speech pathology, audiology, teaching of the deaf)
Radio-Television-Film
(production, directing, writing, announcing, newscasting, advertising, technical operations, management and cinematography)

HARRIS COLLEGE OF NURSING

Degree:
Bachelor of Science in Nursing

MAJORS
Maternal and Child Care
Medical and Surgical
Mental Health and Psychiatric
Public Health

THE GRADUATE SCHOOL

Degrees:
Master of Arts, Master of Arts in Teaching, Master of Science, Master of Business Administration, Master of Professional Accountancy, Master of Management Science, Master of Education, Master of Fine Arts, Master of Music, Master of Music Education and Master of Public Administration
Doctor of Philosophy in English, Mathematics, Physics, Psychology, Chemistry and History.

BRITE DIVINITY SCHOOL

Degrees:
Master of Divinity, Master of Religious Education, Master of Theology and Doctor of Ministry.

THE EVENING COLLEGE

Degrees awarded through other TCU schools and colleges:
Certificate programs in management;
Special Courses Division; Civic Affairs Division.



REMEMBER . . . at TCU the coaches, faculty and the administration will work together to help you prepare for a more useful and satisfying life after the sun has set on your collegiate athletic career.



