TEXARKANA COLLEGE
1988-1990 CATALOG

TCDP

TEXARKANA COLLEGE

2500 NORTH ROBISON ROAD
TEXARKANA, TEXAS
(214) 838-4541

APPROVED AND ACCREDITED
by
The Association of Texas Colleges
The Southern Association of Colleges and Schools
The Texas Education Agency
The Coordinating Board, Texas College and University System
Texas State Board of Nurse Examiners
National League for Nursing
Federal Aviation Agency
Texas Association of Music Schools

MEMBERSHIP
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The Southern Association of Junior Colleges
American Association of Junior Colleges
Texas Association of Junior Colleges
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Texas Association of Collegiate Registrars and Admission Officers
Northeast Texas Junior College Baseball Conference
American Council on Education
National Association of Schools of Music
Texas Music Educators Association
Texas Association of Art Schools
American Technical Education Association, Inc.

AN EQUAL EDUCATIONAL OPPORTUNITY INSTITUTION

Educational opportunities offered without regard to race, color, religion, national origin, sex or handicap.

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1988-1990

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PRESIDENT'S MESSAGE

If this is your first time to attend Texarkana College—Welcome! If you are an "old hand"—Welcome back! We're glad you're here—in fact, you're why we're here!

Texarkana College has the philosophic belief that YOU, the students, are the most important people on this campus. And we don't just pay lip service to that statement either. You'll see it carried out in the classrooms, faculty offices, Student Center, library, . . . all over the campus. And hopefully, in the end, you won't see it at all—you'll feel it! Because Texarkana College is a student-oriented college and that means a lot to you. You're not just a number here—you won't get folded, spindled, or mutilated. You'll be recognized as YOU—a name, a face, a smile, a personality—an individual human being with individual needs.

And just look around. Beautiful campus, isn't it! Many lovely, modern, well-equipped buildings. Important? Of course, but not nearly as important as the people who staff those buildings—the faculty. Because in the final analysis, the proof of the pudding, the criteria on which you will ultimately measure your educational experiences at Texarkana College—will be your instructors. And here it pleases me greatly to say that Texarkana College has more than its share of great ones—not just good ones—great ones.

So—Welcome. You've got a lot going for you at TC. And remember, if you have problems, we're here to help. That goes for all the faculty, staff, and administrators at Texarkana College—and me, too! If you succeed, we succeed.

Carl M. Nelson

(Dr.) Carl M. Nelson

TC CALENDAR 1988-89

August 6, 1988	ACT Test: 8:00 a.m., Chemistry Building
August 16, 1988	Fall registration begins
September 2, 1988	Faculty Seminar
September 5, 1988	Labor Day Holiday
September 6, 1988	Day and evening classes begin
*September 12, 1988	Last day for 80% refund
October 28, 1988	Mid-semester
November 23, 1988	No night classes
November 24-25, 1988	Thanksgiving Holidays
December 5, 1988	Last day to drop classes
December 19-22, 1988	Final exams
January 11, 1989	Spring registration begins
January 23, 1989	Day and evening classes begin
*January 27, 1989	Last day for 80% refund
March 17, 1989	Mid-semester
March 23, 1989	No night classes
March 24, 1989	Good Friday Holiday
March 27-31, 1989	Spring Holidays
April 3, 1989	Graduation application deadline
May 5, 1989	Last day to drop classes
May 15-18, 1989	Final exams
May 23, 1989	Graduation
May 29, 1989	Memorial Day Holiday

*See page 48 for complete refund policy.

CLOCK HOUR CALENDAR 1988-89

August 22, 1988	Fall Quarter begins
September 2, 1988	Faculty Seminar
September 7, 1988	Labor Day Holiday
November 4, 1988	Last day to drop
November 11, 1988	Fall Quarter ends
November 14, 1988	Winter Quarter begins
November 2, 1988	No night classes
November 24-25, 1988	Thanksgiving Holidays
December 23, 1988	Last day of classes
January 16, 1989	Classes resume
February 17, 1989	Last day to drop
February 24, 1989	Winter Quarter ends
February 27, 1989	Spring Quarter begins
March 23, 1989	No night classes
March 24, 1989	Good Friday Holiday
March 27-31, 1989	Spring Holidays
April 3, 1989	Graduation application deadline
May 19, 1989	Last day to drop
May 23, 1989	Graduation (no night classes)
May 26, 1989	Spring Quarter ends
May 29, 1989	Memorial Day Holiday
May 30, 1989	Summer Quarter begins
July 4, 1989	Holiday
August 11, 1989	Last day to drop
August 18, 1989	Summer Quarter ends

FIRST SUMMER SESSION 1989

DAY CLASSES

May 31, 1989	Registration begins
June 5, 1989	Classes begin
June 5, 1989	Last day to register
*June 7, 1989	Last day for 80% refund
July 6, 1989	Last day to drop classes
July 4, 1989	Holiday
July 13, 1989	Last day of classes

EVENING CLASSES

May 31, 1989	Registration begins
June 5, 1989	Classes begin
June 5, 1989	Last day to register
*June 7, 1989	Last day for 80% refund
July 4, 1989	Holiday
July 19, 1989	Last day to drop classes
July 26, 1989	Last night of classes

SECOND SUMMER SESSION 1989

July 10, 1989	Registration begins
July 17, 1989	Classes begin
July 17, 1989	Last day to register
*July 19, 1989	Last day for 80% refund
August 17, 1989	Last day to drop classes
August 24, 1989	Last day of classes

*See page 48 for complete refund policy.

TC CALENDAR 1989-90

August 5, 1989	ACT Test: 8:00 a.m., Chemistry Building
August 15, 1989	Fall registration begins
September 1, 1989	Faculty Seminar
September 4, 1989	Labor Day Holiday
September 4, 1989	Day and evening classes begin
*September 11, 1989	Last day for 80% refund
October 27, 1989	Mid-semester
November 22, 1989	No night classes
November 23-24, 1989	Thanksgiving Holidays
December 4, 1989	Last day to drop classes
December 18-21, 1989	Final exams
January 10, 1990	Spring registration begins
January 22, 1990	Day and evening classes begin
*January 26, 1990	Last day for 80% refund
March 16, 1990	Mid-semester
March 26-30, 1990	Spring Holidays
April 2, 1990	Graduation application deadline
April 12, 1990	No night classes
April 13, 1990	Good Friday Holiday
May 4, 1990	Last day to drop classes
May 14-17, 1990	Final exams
May 22, 1990	Graduation
May 28, 1990	Memorial Day Holiday

*See page 48 for complete refund policy.

CLOCK HOUR CALENDAR 1989-90

August 21, 1989	Fall Quarter begins
September 1, 1989	Faculty Seminar
September 4, 1989	Labor Day Holiday
November 3, 1989	Last day to drop
November 10, 1989	Fall Quarter begins
November 13, 1989	Winter Quarter begins
November 22, 1989	No night classes
November 23-24, 1989	Thanksgiving Holidays
December 22, 1989	Last day of classes
January 15, 1990	Classes resume
February 16, 1990	Last day to drop
February 23, 1990	Winter Quarter ends
February 26, 2990	Spring Quarter begins
March 26-30, 1990	Spring Holidays
April 2,1990	Graduation application deadline
April 12, 1990	No night classes
April 13, 1990	Good Friday Holiday
May 18, 1990	Last day to drop
May 22, 1990	Graduation (no night classes)
May 25, 1990	Spring Quarter ends
May 28, 1990	Memorial Day Holiday
May 29, 1990	Summer Quarter begins
August 19, 1990	Last day to drop
August 17, 1990	Summer Quarter ends

FIRST SUMMER SESSION 1990
DAY CLASSES

May 30, 1990	Registration begins
June 4, 1990	Classes begin
June 4, 1990	Last day to register
*June 6, 1990	Last day for 80% refund
July 4, 1990	Holiday
July 5, 1990	Last day to drop classes
July 12, 1990	Last day of classes

EVENING CLASSES

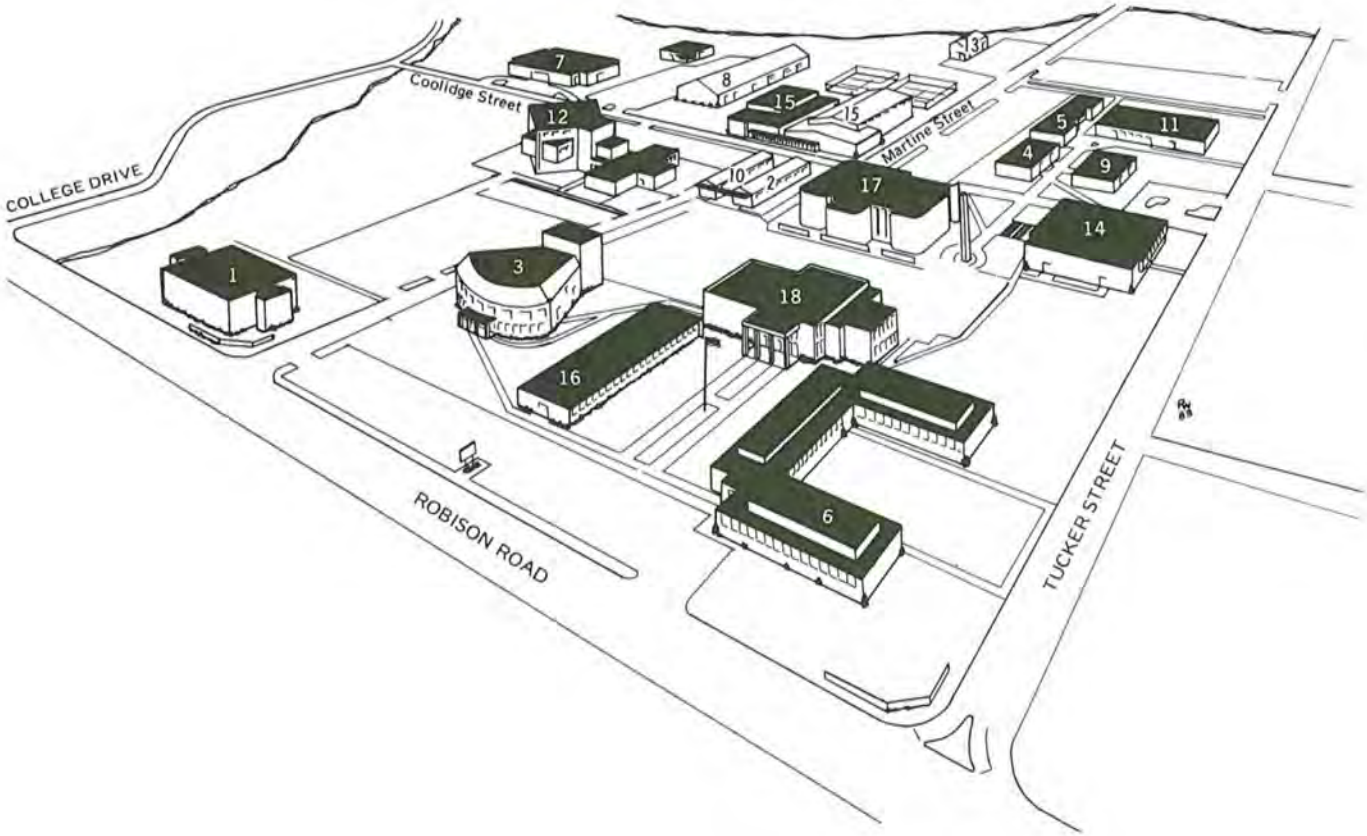
May 30, 1990	Registration begins
June 4, 1990	Classes begin
June 4, 1990	Last day to register
*June 6, 1990	Last day for 80% refund
July 4, 1990	Holiday
July 18, 1990	Last day to drop classes
July 25, 1990	Last day of classes

SECOND SUMMER SESSION 1990

July 9, 1990	Registration begins
July 16, 1990	Classes begin
July 16, 1990	Last day to register
*July 18, 1990	Last day for 80% refund
August 16, 1990	Last day to drop classes
August 23, 1990	Last day of classes

*See page 48 for complete refund policy.

1. ADMINIMSTRATION
2. AGRICULTURE
3. AUDITORIUM
4. BIOLOGY
5. BUCHANAN NURSING
6. BUSINESS
7. CAREER EDUCATION
8. CAREER EDUCATION ANNEX
9. CHEMISTRY
10. CARPENTER SHOP
11. ENGINEERING, MATH, PHYSICS
12. ETSU AIKIN BUILDING
13. MAINTENANCE
14. PALMER MEMORIAL LIBRARY
15. PINKERTON P.E. COMPLEX
16. SOCIAL SCIENCE
17. STILWELL HUMANITIES
18. STUDENT CENTER



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ADMINISTRATIVE STAFF

OFFICERS OF ADMINISTRATION

Carl M. Nelson, Ed.D. ..... President
Levi H. Hall, M.A. ..... Dean of Instruction
Bill R. Hughes, M.S.E. ..... Dean of Students
Frank B. Coleman, Jr., M.S. ..... Dean of Business Affairs
B.J. Murdock, M.A. ..... Dean of Program Development
David Mueller, M.Ed. . Associate Dean of Instruction, Occupational/Technical Programs
Dale Works, M.Ed. ..... Associate Dean of Evening and Continuing Education
Steve Middlebrooks, M.B.A. ..... Director of Admissions/Veterans Affairs
James G. Powell, M.Ed. ..... Director of Community Services
Georgia McFaul, M.Ed. ..... Director of Counseling
Lauren Hehmeyer, M.L.S. ..... Librarian
DuWayne Elliott, M.S. ..... Director of Learning Resource Center
Jean Stow, M.S. ..... Director of Public Relations
Dawson Johnson, M.S. ..... Director of Computer Center
Don Woods, B.S. ... Director of C.O. Pinkerton Health and Recreation Center
Chuck Edmondson ..... Director of Financial Aid
Ben Cox, B.B.A. ..... Bookstore Manager

INSTRUCTIONAL DIVISION CHAIRPERSONS

Herman Barnett, M.Ed. ..... Business Administration
Bob J. Bell, Ed.D. ..... Social Science
Shirley Finn, M.S.N. ..... Health Occupations
Royce Granberry, Ed.D. ..... Science and Technology
Richmond White, M.S. .... Engineering, Mathematics, Physics and Technology
Rolfe Wylie, Ed.D. ..... Humanities

FACULTY

David H. Adams (1974) ..... Agriculture
B.S. Sam Houston State University
M.Ed. Sam Houston State University
East Texas State University-Commerce
Texas A&M University

Linda Adams, R.N. (1981) ..... Emergency Medical Technology
Roanoke Memorial Hospital School of Professional Nursing
EMT Program Texarkana College
EMT Paramedic Texarkana College

Murry Alewine (1965) ..... Music
B.M.E. Sam Houston State University
M.A. Sam Houston State University
Ph.D. University of Miami
University of Texas

David W. Allard (1983) ..... Biology
A.S. Navarro College
B.S. Stephen F. Austin State University
M.S. Stephen F. Austin State University
Ph.D. Texas A&M University

Virginia Allen (1981) ..... Related Math
B.S. Northeast Louisiana University

William Corbett Anderson (1973) ..... Graphic Arts
B.A. Stephen F. Austin State University
M.A. Stephen F. Austin State University

Stewart Angel (1975) ..... Mathematics
B.S. Sam Houston State University
M.A. Sam Houston State University

Margaret V. Banks, R.N. (1986) ..... Nursing
B.S. Sam Houston State University
B.S.N. Texas Woman's University
Texarkana College
East Texas State University-Texarkana

Herman Barnett (1967) ..... Business Administration
B.S.E. Henderson State University
M.Ed. East Texas State University-Commerce
Texas A&M University

Bob J. Bell (1969).....Psychology
B.S.E. Henderson State University
M.Ed. University of Arkansas
Trinity University
University of Texas
Ed.D. North Texas State University

Jack Bender (1975).....Auto Mechanics
L.A. Trade Technical College
Texarkana College

John B. Benson (1968).....Psychology/Sociology
B.A. Berea College
M.S.E. Henderson State University
Diploma of Advanced Study-University of Arkansas
George Williams College
Southern State University

Nancy M. Biggar, R.N. (1985).....Nursing
B.S.N. Northwestern State University
M.S.N. Northwestern State University

Kathleen Blackard, R.N. (1976).....Nursing
A.D.N. Texarkana College
B.S.N. Northwestern State University
M.S.N. University of Texas at Austin

Dianne Blanchard (1987).....Office Occupations
B.S. Winona State University

Jane A. Bouterse (1971).....English
A.A. Texarkana College
B.A. University of Texas at Austin
M.L.A. Southern Methodist University
East Texas State University-Texarkana
Utah State University
University of Texas at Tyler

Edwin Braddock (1972).....Biology
B.S. Bethany Nazarene College
M.A. East Texas State University-Commerce
Colorado State University
Texas A&M University

Ronald Bright (1970).....Counselor
B.S. University of Houston
M.Ed. University of Houston
Ed.D. East Texas State University-Commerce

David Brown (1974) ..... Mid-Management
A.A. Texarkana College
B.A. University of Texas
M.S. East Texas State University-Commerce
East Texas State University-Texarkana

Kathryn Brown, R.N. (1983) ..... Nursing
A.D.N. Texarkana College
B.S.N. University of Texas at Arlington
M.S. East Texas State University-Texarkana

Robert H. Brown (1979) ..... Physics
B.S.E.E. Pacific States University
M.S. East Texas State University-Commerce
University of Arizona

Michael L. Buttram (1971) ..... Chemistry
B.A. East Texas State University-Commerce
M.S. East Texas State University-Commerce
Ph.D. University of Louisville

William R. Caver (1967) ..... Art
B.S.E. North Texas State University
M.F.A. University of Guanjuato
University of Texas
University of the Americas
Universidad de Barcelona, Spain
East Texas State University-Texarkana

Frank B. Coleman, Jr. (1974) ..... Dean of Business Affairs
B.S. Southern State University
M.S. State College of Arkansas
University of Arkansas, Little Rock

Frances Cranford (1983) ..... Data Processing
Wheaton College
Ouachita Baptist University
A.S. Texarkana College
B.A.A.S. East Texas State University-Texarkana

Nona Eagle Culpepper (1968) ..... Music
B.A. Hendrix College
M.M.E. North Texas State University

Warren S. Dill (1966) ..... Chemistry
B.S. North Texas State University
M.S. North Texas State University
Ed.S. New Mexico State University
Texas A&M University

Delbert Dowdy (1978) ..... Physics/Mathematics
B.S. University of Texas at Arlington
M.S. North Texas State University

Sharon Drake (1971) ..... English
B.S.E. Henderson State University
M.S.E. Henderson State University
East Texas State University-Texarkana
University of Mississippi

Henry R. Duke, Jr. (1969) ..... Physical Education
B.S. East Texas Baptist College
M.Ed. North Texas State University

Hub G. Dungan (1968) ..... Physical Education
B.A. Ouachita Baptist University
M.A. North Texas State University
Southwestern Baptist Theological Seminary
East Texas State University-Texarkana

Chuck Edmondson (1985) ..... Director of Financial Aid
University of Central Arkansas

Tom Elder (1985) ..... Data Processing
A.S. Texarkana College
B.S. University of Texas at Tyler

DuWayne Elliott (1970) ..... Director of the
Learning Resource Center
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce

Artie Erwin, R.N. (1984) ..... Coordinator-Instructor
Cardiac Rehab Program
A.D.N. Texarkana College
B.A.A.S. East Texas State University-Texarkana

Shirley S. Finn, R.N. (1966) ..... Nursing
Saint Agnes School of Nursing
B.S.N. Saint Augustine College
M.S.N. Texas Woman's University

Norell Daline Ford, R.N. (1975) ..... Nursing
Lutheran Hospital School of Nursing (Diploma),
Vicksburg, Mississippi
B.S. Southwest Texas State University

Bob Forward (1974)..... Data Processing
B.S. Ouachita Baptist University
M.S. East Texas State University-Texarkana

Thomas W. Furlow (1978)..... Electricity
B.S.E.E. University of Arkansas
M.S.E. George Washington University

DeWayne Godwin (1978) .....Auto Mechanics

Larry Gordon (1970).....Aviation Technology
Western Kentucky University
B.S. Louisiana Tech University
M.S. East Texas State University-Texarkana

Royce Granberry (1966)..... Agriculture/Biology
A.S. Texarkana College
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce
Ed.D. Oklahoma State University

Gail Haddock (1982)..... Data Processing
Community College of the Air Force
Tyler Junior College
B.S. University of Texas at Tyler
M.S. East Texas State University-Texarkana

Levi H. Hall (1965).....Dean of Instruction
B.A. North Texas State University
M.A. Tulane University

Tony A. Hartman (1983)..... Mathematics
Texarkana College
B.S.E. Southern Arkansas University
M.Ed. Southern Arkansas University
East Texas State University-Texarkana
University of Arkansas

Errol Hatfield (1969).....Business Administration
B.S. University of Southern California
M.B.A. University of Southern California

Jimmy Hawkins (1969) ..... Political Science
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce
East Texas State University-Texarkana

Lauren Hehmeyer (1985) ..... Librarian
B.S. University of Missouri-Columbia
M.L.S. University of Missouri-Columbia

Delores Hendrick (1986) ..... Biology
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce

James W. Herrin (1968) ..... Music
B.M. Centenary College
M.M. University of Oklahoma

James Hicks (1983) ..... Welding
Texarkana College
East Texas State University-Commerce

Adolphus Hinton (1974) ..... Mid-Management
B.A. Prairie View A&M
M.A. University of Oklahoma
Texarkana College
East Texas State University-Texarkana

Carol Hodgson, R.N. (1986) ..... Nursing
A.D.N. Texarkana College
B.S.N. UT Systems School of Nursing-Fort Worth
M.S.N. University of Texas at Arlington
East Texas State University-Texarkana

Joseph Horvath (1986) ..... Upholstry

Jena Howell, R.N. (1975) ..... Nursing
A.D.N. Texarkana College
B.S. Bradley University
M.S.N. Texas Woman's University

Billy Ray Hughes (1965) ..... Dean of Students
B.S. Henderson State University
M.S.E. Henderson State University
University of Arkansas
East Texas State University-Commerce

Lou Ella Humphrey, R.N. (1960) ..... Nursing
Arkansas Baptist Hospital School of Nursing-Diploma
B.S. East Texas State University-Texarkana
M.S.N. Texas Woman's University
Ed.D. East Texas State University-Commerce

James H. Humphries (1980) ..... Criminal Justice
B.C.S. Southeastern University
University of Virginia
FBI Academy

David Jackson (1973) ..... Small Engine Repair

Bill Johnson (1980) ..... Cosmetology
Paul's Beauty College-Dallas

Dawson Johnson (1978) ..... Director of Computer Center
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce

Robert Kidd (1981) ..... Auto Body Repair

Robert King (1982) ..... Electronics Technology
B.A.A.S East Texas State University-Texarkana
Texarkana College
Southern Arkansas University
State Technical Institute at Memphis
M.S. East Texas State University-Texarkana
M.Ed. East Texas State University-Texarkana

Zedia Lane (1981) ..... Office Occupations
B.A. Wiley College
M.S. East Texas State University-Commerce

Shirley F. Lishman, R.N. (1986) ..... Nursing
A.D.N. Texarkana College
B.S.N. University of Texas at Arlington
East Texas State University-Texarkana

Gene Livingston, R.N. (1960) ..... Nursing
B.S.N. Texas Christian University
M.Ed. East Texas State University-Texarkana
Northwestern State University

Mary M. Long (1973) ..... Art
B.S.E. Henderson State University
M.S. East Texas State University-Commerce

Ruth Ann Loyd (1982) ..... Fashion Merchandising
B.S. University of Arizona
M.Ed. North Texas State University

Gayle Hill McComb, R.N. (1987) ..... Nursing
Diploma King's Daughters Hospital
B.A. Texas Tech University
B.S.N. West Texas State University
M.S.N. University of Texas at El Paso

Georgia McFaul (1967) ..... Director of Counseling
B.A. Louisiana Polytechnic Institute
M.Ed. East Texas State University-Commerce
East Texas State University-Texarkana

Joel R. McGee III (1957) ..... Biology
B.A. East Texas State University-Commerce
M.Ed. East Texas State University-Commerce

Johnny McJunkins (1988) ..... Data Processing
B.A. Southern Arkansas University

Charles Marley (1975) ..... Mid-Management
B.A. Ouachita Baptist University
M.Ed. East Texas State University-Commerce
M.S. East Texas State University-Commerce

Glen Martin (1979) ..... Air Conditioning/Refrigeration

Harry Martin (1974) ..... Auto Mechanics
Le Tourneau College
P.B.T.A. College
Bob Jones University

Donald Matthews (1983) ..... Air Conditioning/Refrigeration
A.S. Texarkana College
East Texas State University-Texarkana

Lester Meredith (1968) ..... Political Science
B.S. Sam Houston State University
M.A. Sam Houston State University
University of Missouri
University of Houston
East Texas State University-Texarkana

Steve Middlebrooks (1969) ..... Director of Admissions/
Veterans Affairs
B.B.A. Southern State University
M.B.A. East Texas State University-Texarkana

Robert Mills (1958) ..... Business Administration
B.S. East Texas State University-Commerce
M.Ed. East Texas State University-Commerce

Steve Mitchell (1984) ..... Radio Station Manager
B.S. Central Missouri State University

Patricia Moore (1973) ..... Business Administration
B.B.A. North Texas State University
M.B.A. East Texas State University-Commerce

Patricia Morgan, R.N. (1970) ..... Nursing
A.D.N. Texarkana College
B.S. East Texas State University-Texarkana
M.S.N. Texas Woman's University
Ed.D. East Texas State University-Commerce

Mary Mote, R.N. (1968) ..... Nursing
B.S.N. Northwestern State College
M.Ed. East Texas State University-Texarkana
Northwestern State University

David Mueller (1971) ..... Associate Dean of Instruction, Occupational/Technical Programs
A.A. Texarkana College
B.S. Lamar University
M.Ed. East Texas State University-Commerce

Barry Murdock (1983) ..... Carpenter's Helper
East Texas State University-Texarkana

B.J. Murdock (1958) ..... Dean of Program Development
B.A. Southern State University
M.A. East Texas State University-Commerce
East Texas State University-Texarkana

Charlotte Murdock (1968) ..... Related Education
B.S. Southern State University

Benny Murphy (1982) ..... Diesel Mechanics
Texarkana College
East Texas State University-Commerce

Carl M. Nelson (1975) ..... President
B.S. University of Arkansas
M.Ed. University of Arkansas
Ed.D. University of Arkansas

Norma Nelson (1960) ..... Physical Education
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce

James G. Powell (1983) ..... Director of Community Services
B.S. East Texas State University-Commerce
M.I.S. East Texas State University-Texarkana
M.Ed. East Texas State University-Commerce

Art Purdy (1974) ..... Welding

Joe Purdy (1974) ..... Welding

Leon Rauch (1979) ..... Mathematics
B.S.E. University of Arkansas
M.A. University of Oklahoma

Margaret Rauch (1981) ..... Mathematics
B.S.E. College of Our Lady of the Elms
M.A. University of Oklahoma
University of Massachuetts

Kerin Reed (1982) ..... Counselor
B.S.E. University of Central Arkansas
M.Ed. Arkansas State University
University of Arkansas at Little Rock

Albert Riusech (1976) ..... Modern Languages
A.A. Southwest Baptist College
B.A. Ouachita Baptist University
M.A. Ouachita Baptist University
University of San Francisco
Universidad de Guadalajara, Mexico
Universite De Dijon, France
East Texas State University-Texarkana

Ira Robinson (1977) ..... Business Administration
Texarkana College
B.B.A. Texas Technological College
M.B.A. Texas Technological College
Northern Arizona University

Elisabeth Shaw (1981) ..... Counselor
B.A. Ouachita Baptist University
M.S. University of Arkansas
M.Ed. University of Arkansas
East Texas State University-Texarkana

Candy Stevens Smith (1983) ..... Political Science
A.A. Texarkana College
B.A. Texas A&M University
M.A. Texas A&M University
East Texas State University-Texarkana
Ed.D. Texas A&M University

Pat R. Sorsby (1969..... English
B.S. Ouachita Baptist University
M.S. Indiana State University
East Texas State University-Texarkana

James A. Spears (1974) .....Aviation Technology
Texarkana College
B.S.E. Southern State University
M.S. East Texas State University-Texarkana

J. Elden Spencer (1959)..... History/Political Science
B.A. Texas Christian University
M.A. Texas Christian University
University of Texas at Austin
Texas Christian University

Lucy Spencer (1969)..... Sociology/Geography
B.S.E. Henderson State University
M.A. George Peabody College
Texas Technological University
East Texas State University-Texarkana

Carl Spicher (1974) .....Electronics Technology
Texarkana College
B.A. East Texas State University-Texarkana

John Stanley (1977) ..... Welding

Jean Stow (1984) .....Journalism/
Director of Public Relations
B.S. East Texas State University-Commerce
M.S. East Texas State University-Texarkana

John Stuart (1980)..... History/Political Science
Texarkana College
B.A. Henderson State University
M.A. University of Arkansas
University of Texas at Austin
East Texas State University-Commerce

Jimmy Thomas (1980).....Air Conditioning/Refrigeration

Nellie Kate Thomas (1969) ..... English
A.A. Texarkana College
B.A. East Texas State University-Commerce
M.A. East Texas State University-Commerce
Texas Tech

Don Tibbit (1985) ..... Drafting Technology
B.S. University of Oklahoma
M.S. East Texas State University-Texarkana

Charles Trammell (1981) ..... Business Administration
B.B.A. Southwest Texas State College
M.B.A. East Texas State University-Texarkana

Joe C. Varner (1969) ..... Biology
B.S. University of Arkansas
M.S. University of Arkansas

Lin Vickers (1979) ..... Emergency Medical Technology
B.A. London University, London, England
EMT Austin, Texas

Helen Weir, R.N. (1983) ..... Nursing
Lilly Jolly School of Nursing, Houston (Diploma)

Jerry Wheeler (1985) ..... Electronics Technology
East Texas State University-Texarkana

Joyce White, R.N. (1976) ..... Nursing
B.S.N. Texas Woman's University
M.S.N. University of Texas at Arlington

Richmond White (1962) ..... Engineering
B.S. East Texas State University-Commerce
M.S. East Texas State University-Commerce

David Williams (1975) ..... Auto Body Repair
Texarkana College
Ohlone Junior College

Jayne Williams (1975) ..... English
B.A. Southern State University
M.S. East Texas State University-Texarkana
Texas Tech
University of Arkansas

Robert G. Williams (1959) ..... History
B.S. Stephen F. Austin State University
M.Ed. Stephen F. Austin State University
University of Texas
East Texas State University-Commerce
East Texas State University-Texarkana
L.L.D. Jefferson University

Wayne J. Williams (1965) ..... Physical Education
B.A. Ouachita Baptist University
M.S.E. Henderson State University
East Texas State University-Commerce
Northern Arizona University
East Texas State University-Texarkana

Ruth Winn (1980) ..... English
B.A. East Texas State University-Commerce
M.A. Arlington State College

Henry W. Wood, Jr. (1959) ..... History
B.A. Ouachita Baptist University
M.A. East Texas State University-Commerce
Baylor University
University of Mississippi
Southwestern Theological Seminary

Don Woods (1983) ..... Director of C.O. Pinkerton Health and Recreation Center
B.S. Stephen F. Austin State University
East Texas State University-Commerce
East Texas State University-Texarkana
North Texas State University

Dale Works (1966) ..... Associate Dean of Evening and Continuing Education
B.S. Texas Christian University
M.Ed. North Texas State University
North Texas State University

Sue Works (1967) ..... Physical Education
B.S. Southern Arkansas University
M.Ed. North Texas State University
Texas Woman's University

Rolfe A. Wylie (1966).....Speech
B.S.E. Henderson State University
M.S.E. Henderson State University
Texas Technological University
Ed.D. East Texas State University-Commerce

GENERAL INFORMATION

History of the College

Texarkana College was founded in 1927 as a public junior college and as a branch of Texarkana, Texas, Public School Systems. In the early beginnings, Dr. H. W. Stilwell served as both the Superintendent of Schools and as President of the College. W. P. Akin was selected as the first Dean of the College.

The first building housing the college was erected at the corner of 16th and Pine Streets. The building contained classrooms, laboratories, administration, teachers' offices, and a gymnasium. The building was solely owned by the school district, and the laboratories and gymnasium were jointly used by the college and the high school. Following legislation by the State of Texas, in 1941 the Texarkana College District was established by an election of the taxpayers of the public school district and a tax rate of 20 cents per 100 dollars of assessed valuation was passed at the same time.

The college showed a slow but steady growth from the 109 enrollment in 1927 until the end of World War II. It became increasingly apparent that the growth in enrollment caused by returning veterans demanded enlargement of the college facilities. Accordingly, an election was called in 1948 for the issuance of $40,000 in bonds to purchase a new campus and to finance the construction of new facilities. Upon passage of the bond issue, some 20 acres were purchased and the construction of the present Administration Building and the gymnasium was begun in 1950. The college moved to its present site in October, 1951. The enrollment for 1951-52 was 589 students.

In 1954 the taxpayers of the district voted to raise the tax rate to 40 cents per 100 dollars of assessed valuation. Shortly thereafter, bonds in the amount of $500,000 were voted for the construction of the College Auditorium and the Social Science Building.

In 1957, by action of the Board of Regents of the college and the Board of the Texarkana Independent School District, the same members serving on each Board, an agreement was reached to separate the two Boards. Shortly thereafter, Dr. Stilwell relinquished his duties as Superintendent of Schools and gave his full time to the presidency of the college.

In 1958, through the issuance of $475,000 in revenue bonds, the Student Center building was constructed and opened for use early in 1959. Through the issuance of of revenue bonds, the College acquired additional acres. Using the same source of revenue, the following buildings were constructed: Boys' Dormitory, Music Building, Technical Building, and Bus and Maintenance shops. The Administration Building was air-conditioned, and numerous improvements were made to other buildings on the campus.

In November, 1959, Dr. Stilwell died. Dean W. P.Akin was appointed Acting President until Dr. Stilwell's successor, Dr. W. H. Hinton, was appointed in March, 1960. Mr. Akin then became Vice-President and served in this capacity

until the resignation of Dr. Hinton in June, 1962. Mr. Akin was then made President and served until his death in September, 1963. Dean C. C. Burrus was named Acting President upon the death of Mr. Akin and served until March, 1964, when Dr. J. W. Cady was elected as the fourth President of the College. During Dr. Cady's administration, new Chemistry, Biology, Engineering, Mathematics, Physics, Library buildings and an Aquatic Center housing an olympic size swimming pool were added.

In March, 1975, Dr. Cady resigned and Dean Levi Hall served as Acting President until August, 1975, when the Board selected Dr. Carl M. Nelson as President. Dr. Nelson is thus only the fifth President to serve Texarkana College in its fifty-nine year history. Construction during Dr. Nelson's administration includes: Stillwell Humanities Building, Pinkerton Recreation Center, Career Education Center Annex, Word Processing Building, expansion of Engineering, Math, Physics Building, Library expansion by E.T.S.U.-Texarkana, and Administration Building due for construction in spring, 1986.

The growth of the College can best be illustrated by comparing the enrollmlent of 109 students in 1927 with the enrollment of 4,194 students n the fall of 1987. Summer enrollment in 1928 of 25 students; in 1987 summer enrollment was 2,386 students.

In 1971, Texarkana College joined forces with East Texas State University at Texarkana in a unique cooperative venture which has benefited greatly the students of Texarkana and the surrounding community. ETSU/T teaches upper level courses — junior, senior, and graduate courses — on the campus of Texarkana College thus making it possible for students to attend Texarkana College for the first two years of college education and then, never having to leave the campus, continue with certain baccalaureate and master's programs with East Texas State University/Texarkana. Each institution remains separate and distinct, with their own governing boards, their own administration and faculties. In January of 1976 Texarkana College deeded approximately 3.8 acres of land to East Texas State University/Texarkana for that institution to build a two and one-half million dollar building on the site of the old football field. The building houses East Texas State University/Texarkana administration and faculty.

The Palmer Memorial Library provides a quiet atmosphere for study and research. It houses the collections, both print and non-print, of Texarkana College and East Texas State University at Texarkana. The library is also available for use by the community. Holdings include 139,488 volumes of books, 990 periodicals and over 1,316,000 microforms with coin-operated reader printers. Palmer Memorial Library is a member of Texas State Library Communications Network for interlibrary loan and reference service and is a selective depository for U.S. Government Documents. The library is open seven days a week, and the library staff is always available to give assistance.

The cooperative arrangement of the institutions of higher learning is unique in the state of Texas and offers terrific advantages of the residents of this area.

Educationally this is the best of all possible worlds — a two-year comprehensive community college with all of its diverse missions coupled with an outstanding four-year university offering baccalaureate and graduate training.

Texarkana College is obviously mature and established. But even so, Texarkana College continues to be a vibrant developing institution constantly striving to be even better and always with an eye to the future.

Government

The government of Texarkana College is vested in a Board of Trustees consisting of nine members. Administration of the policies of the Board is delegated to the President of the College.

Classification, Affiliation, Standing

Texarkana College is approved and accredited as a two-year college by the Texas Education Agency, the Association of Texas Colleges, Texas State Board of Nurse Examiners, National League of Nurses, and the Southern Association of Colleges and Schools. The college is also a member of the Texas Association of Public Junior Colleges, the Texas Association of Junior Colleges, the Southern Association of Junior Colleges, and the National Commission on Accrediting.

Location

Texarkana College is located on the northwest border of the city of Texarkana, Texas, at the junction of Robison and Tucker Street, and about three miles from the downtown business district. The campus adjoins the Sherwood, Oaklawn and Westlawn Additions to the city, and is near the Beverly, Broadmoore, Brookhaven, Avondale, Brown and Watts Additions.

The twin cities of Texarkana, Arkansas-Texas, serving a four-state area and popularly referred to as the Gateway to the Southwest, have a combined population of approximately 53,000. Widely known as a manufacturing, shipping, transportation, and railroad center, Texarkana is also noted for its lumber and dairy products. Located near the city is the U. S. Army Lone Star Ordinance Plant and Red River Army Depot, second largest arsenal in the nation.

Texarkana is also noted for its outstanding public school systems and churches. Recreationally, the Texarkana area is a sportsman's paradise with some of the nation's best hunting and fishing in the immediate area.

Philosophy and Objectives

Texarkana College is committed to providing every person in the Texarkana community and surrounding area a quality educational experience whether the person is a youth setting forth toward a degree in medicine or an adult wanting to enrich his leisure hours with an interesting hobby. There is a place for the student who wishes to spend a year or two preparing himself to enter a trade or

profession, and a place for an employed person who wants to further this training in his occupational field. There is a place for the very bright high school student who is ready to undertake college level training in advance of his graduation from secondary school, and a place for the high school dropout who has changed his mind about the necessity of education in today's complex, demanding society. There is, simply stated, a place for everyone. In 1985 the name of the college was changed from Texarkana Community College to Texarkana College. And how can the college serve all of the diversity of needs demanded in our community? The answer is found in educational offerings in four broad categories:

For the student seeking the first two years of work toward the goal of a bachelor's or higher degree the college offers a wide range of courses which are transferable to senior colleges and universities.

For the student wishing to enter an occupation at a level above the bottom rung of the ladder the college offers programs from six weeks to two years, covering specific technical/occupational fields.

For the employed person wishing to improve his knowledge in his field or train for a move into a new occupational field — the college offers a broad range of credit and non-credit adult education courses.

For the person who simply wants to make life a little more interesting there are community service programs, offering a myriad of subjects on cultural, civic and vocational topics.

This is what a totally comprehensive community college is all about and how it differs form the old junior college concept. Today Texarkana College is a truly comprehensive community college with an educational place for everyone.

REQUIREMENTS FOR ADMISSION

It is the policy of Texarkana College to admit students without regard to race, color, sex, or national origin.

Methods of Admission

A person may be admitted to Texarkana College by any one of the following methods:

1. Graduates of accredited high schools - includes both academic and vocational/technical students.

2. Individuals with General Educational Development (GED) Certificates - includes both academic and vocational/technical students.

3. Individual Approval — A student who is not a graduate of an accredited high school, but who is 18 years of age or older may be admitted conditionally at the discretion of the Director of Admissions. Students admitted by this method are placed on probationary status for the first semester and remain subject to the requirements of probation until that student has raised his/her grade point average to the level of satisfactory progress as stated in the college catalog.

4. Early Admission — A high school student, after completion of the 11th grade and with the consent of his parents, may be recommended by the high school principal for admission. Release of official transcript will not be made until after graduation from high school.

5. Transfer Students — Texarkana College welcomes transfer students. Students on disciplinary dismissal will not be admitted. Students on academic dismissal from another college may be admitted provided they live in the Texarkana College district.

6. Admission of Foreign Students — The College encourages the enrollment of foreign students who satisfy regular entrance requirements and have proficiency in the use of the English language.

   Applicants who are natives of non-English speaking countries are required to provide evidence of proficiency in the English language by scoring at least 500 on the Test of English as a Foreign Language (TOEFL). Residents of foreign countries are urged to contact an American Embassy or Consulate for the administration of this examination.

General Requirements for Admission

1. Completed application for admission.

2. Provide an official transcript from the last school attended or GED certificate.

3. Provide evidence of immunization as required by state law: diphtheria-tetanus, polio if under age 19.

4. Furnish scores from the ACT or SAT test. (Does not apply to transfer students.) Student who do not have ACT or SAT scores are required to take the English and math placement exams.Criteria for registration:

English

	ENG 131	ENG 032	ENG 031
ACT (Standard Score)	16	11- 15	10 & below
SAT (Verbal Score)	350	301-349	300 & below
English Placement (Standard Score)	51	39- 49	38 & below

Math

	MTH 131	MTH 130
ACT (Standard Score)	15	less than 15
SAT (Math Standard Score)	380	less than 380
Math Placement (Scaled Score)	215	less than 215

Special Admission Requirements

Texarkana College reserves the right to require additional information for admission to certain programs. Some examples are: Emergency Medical Technology, Associate Degree Nursing, Vocational Nursing, and Aviation Technology. The specific requirements can be found with the individual programs in this catalog.

Re-admission Policy

Any student placed on academic suspension may appeal to the Director of Admissions for special consideration.

Required Physical Education

Students should check with the school to which they plan to transfer from Texarkana College to determine the number of physical education classes required by that institution. A student may not repeat the same course more than two semesters. Some students may be eligible for exemption by meeting one of the following criteria:

Furnish a health certificate indicating permanent physical impairment. The certificate must be signed by a physician.

Furnish a transcript indicating they have completed 2 physical education activity courses.

Are a veteran with active duty in the U.S. Armed Forces and furnish proof from the Veterans Administration.

Are admitted to an occupational program in which P.E. is not required for an Associate of Applied Science Degree.

Required Freshman Orientation

Beginning freshman enrolled in 12 or more semester hours are required to take Psychology 111, Freshman Orientation. Any exceptions must be approved by a counselor.

Required English

All beginning students enrolled in 12 or more hours are required to take an English course. The criteria for determining which English course the student must take are stated in the general requirements for admission to TC. English 031 and English 032 are not accepted as transfer credit by most senior colleges, nor do they count toward an associate degree at Texarkana College.

REQUIREMENTS FOR GRADUATION

Texarkana College confers four associate degrees: the Associate in Arts Degree, the Associate in Business Administration Degree, the Associate in Science Degree, and the Associate in Applied Sciences Degree. The Associate in Arts Degree, the Associate in Business Administration Degree, and the Associate in Science Degree are awarded upon successful completion of a two-year college/university transfer program. The Associate in Applied Sciences is awarded for successful completion of a two-year vocational-technical program. In addition, Texarkana College awards Certificate of Graduation for completion of programs of less than two years in length.

Students are allowed a maximum of five (5) years to complete their degree under the college catalog in effect upon initial registration. This policy does not include curriculum changes mandated by state regulations. Additional time past this period is permitted, but the student must meet the degree requirements in the current catalog.

A. General Requirements (Common to the Associate in Arts, Business, Science, and Secretarial Science degrees.)

1. A minimum of 62 semester hours are required for graduation. (Veterans are exempted from P.E.)

2. 18 hours must be of sophomore standing.

3. A maximum of 14 hours of credit by exam amy be accepted.

4. A maximum of nine (9) hours of correspondence study may be accepted. (Additional hours may be accepted upon the approval of the Dean of Instruction and the Director of Admissions).

5. The last 15 hours must be completed in residence.

6. A cumulative grade point average of 2.0 is required for graduation.

7. Students must make formal application for graduation by March 1, on the form furnished by the Admissions Office.

B. Requirement for Degrees

1. Associate in Arts

a. 9 hours of English—English 131, 132, and three hours of sophomore literature.
b. *Six (6) hours of History—History 133, 134.
c. Six (6) hours of Political Science—PSI 231, 232.
d. Two (2) hours of P. E.—Two activity courses.
e. 18 additional semester hours of courses to be selected from Mathematics, Foreign Language, Fine Arts, Humanities, and/or Social Sciences.

2. Associate in Science

a. 9 hours of English—English 131, 132, and three hours of sophomore literature.
b. *Six (6) hours of History—History 131, 134.
c. Six (6) hours of Political Science—PSI 231, 232.
d. Two (2) hours of P.E.—Two activity courses.
e. 18 additional semester hours of courses to be selected from Mathematics and Natural Sciences.

3. Associate in Business Administration

a. 9 hours of English—English 131, 132, and three hours of sophomore literature.
b. *Six (6) hours of History—History 133, 134.
c. Six (6) hours of Political Science—PSI 231, 232.
d. Two (2) hours of P.E.—Two activity courses.
e. 18 hours of Business.

4. Associate in Secretarial Science

a. 9 hours of English—English 131, 132, and three hours of sophomore literature.
b. *Six (6) hours of History—History 133, 134.
c. Six (6) hours of Political Science—PSI 231, 232.
d. Two (2) hours of P.E.—Two activity courses.
c. 18 hours of Secretarial Science.

*HST 231 May be substituted for one.

5. Associate in Applied Science

Texarkana College offers an Associate Degree in Applied Science for many of its vocational-technical programs. Each program has its suggested curriculum for these two-year degree program requirements listed in this catalog. These programs include:

Agri-Business Management
Associate Degree Nursing
Banking and Finance
Aviation Technology
Commercial Music
Criminal Justice Administration
Date Processing
Drafting Technology
Electronics Technology
Emergency Medical Technology
Fashion Merchandising
Mid-Management
Real Estate

6. Certificates of Graduation — Texarkana College awards certificates of graduation to individuals completing programs which are designed for training in a particular skill. These programs include:

Auto Body Repair
Auto Mechanics
Carpenter's Helper/Upholstry
Cosmetology
Cosmetology Instructor
Data Processing — Micro
Data Processing — Computer Operator/Programmer
EMT — Basic, Intermediate, Advanced
Diesel Mechanics
Horticulture
Electricity
Licensed Vocational Nursing
Office Occupations
Physical Fitness Technology
Refrigeration/Air Conditioning
Secretarial Science
Small Engine Repair
Welding
Printing
Radio/Television Production

See the program of your choice in this catalog for the curriculum content.

CREDIT BY EXAMINATION

Texarkana College awards up to fourteen (14) hours of credit by examination. This credit may be earned through either the College Level Examination Program (CLEP), the American College Board Advanced Placement Program, and/or locally contructed exams. Students who are interested in these exams may secure registration forms from the Counseling Center.

Current or former Arkansas or Texas law enforcement officers who have successfully completed basic law enforcement training academy courses may qualify form some credit hours. Contact Criminal Justice Administration director for details.

Credits earned by examination will not be placed on the student's official transcript until an equivalent number of semester hours has been earned in a subsequent course at Texarkana College if such a course exists and is on the student's degree plan.

The fee for each local Credit by Exam is $10.00 per semester hour.

CORRESPONDENCE CREDIT

Nine semester hours is the maximum allowed at Texarkana College, in addition to the hours (14) allowed by Credit by Examination. Any deviation from this policy must be individually approved by the Dean of Instruction and the Director of Admissions.

SCHOLASTIC PROBATION AND SUSPENSION

A student must maintain a satisfactory level of academic achievement in order to remain enrolled in good standing at Texarkana College. This level of academic achievement is determined on the basis of each student's cumulative grade point average, calculated on the basis of all academic work attempted, excluding repeated courses.

To be eligible for continued enrollment in good standing, a student must maintain a minimum grade point average as follows:

On 30 semester hours attempted or less, a student must have a cumulative grade point average of not less than 1.50.

On 31 semester hours or more attempted, a student must have a cumulative grade point average of not less than 2.00.

A 2.00 cumulative grade point average is required for graduation.

The standards for students enrolled in a clock hour program are as follows:

On 750 clock hours attempted or less, a student must have a cumulative grade point average of not less than 1.50.

On 751 clock hours attempted or more, a student must have a cumulative grade point average of not less than 2.00.

A 2.00 cumulative grade point average is required for graduation.

Any student failing to maintain the minimum academic requirements will be placed on academic probation. A student on academic probation will remain on probation until that student has raised his/her cumulative grade point average to the level of satisfactory progress as specified above. A student who does not meet the level of satisfactory progress as specified above may continue on a probationary status provided that student has compiled at least a 2.00 grade point average for the previous semester.

Should the student fail to meet the above requirements, he/she will be placed on academic suspension for one semester. The second and subsequent times that this occurs, the student will be placed on academic suspension for one calendar year. Any student placed on suspension may appeal to the Director of Admissions for special consideration.

A student on academic probation/suspension may not participate in extra curricular activities.

Veterans receiving Veteran's Administration benefits will not be recertified for future payment unless they maintain the minimum levels of progress as stated above.

SECOND CHANCE POLICY

Texarkana College offers students who earned unsatisfactory grades five years or earlier in their academic careers the option of declaring "Academic Bankruptcy." Under this policy the following conditions apply:

1. The student forfeits the use for degree purposes at TC any college or university credit earned prior to the date on which they qualified for academic bankruptcy by not having been enrolled in college or university courses for a period of at least five years.

2. The record of the student will be inscribed with the note "Academic Bankruptcy." Credits attempted and earned prior to this date will not be used in computing grade point average or for meeting requirements for graduation at TC.

3. Computation of the grade point average for purposes of determining transferability to other colleges will include all college work attempted.

4. The student enters on probation and must earn a "C" average during the first semester of attendance after declaring academic bankruptcy to be removed from probation. From that period the student is subject to the scholastic regulations as stated in the college catalog.

5. The student is ineligible for academic honors conferred by TC except as justified by the entire record.

6. This decision is final and irreversible.

Students desiring to initiate this policy should contact the Director of Admissions for the proper forms.

RULES AND REGULATIONS

Individualized Instruction

The maximum number of individualized classes a student may take per semester is two (2).

Change of Classes

A student may initiate a schedule change only during the last registration period. A fee of $5.00 is charged for each change which must be paid the same day.

Dropping of Classes

Any student who officially withdraws from a semester hour course two weeks before the start of final examinations (fall and spring) or one week before the end of a summer session and before the student has been dropped from the course by the instructor will receive a "W."

Clock hour students may withdraw until one (1) week prior to end of quarter.

Students are expected to regularly attend all classes for which they are registered. Responsibility for work missed because of illness, school business, or other circumstances is placed on the student. Poor class attendance may result in a student being dropped from a course with a grade of "F." In extenuating circumstances, the instructor has the option of dropping a student with "W" up to the official drop date for a semester or session.

Absentee Policy

The following number of absences will be the maximum allowable:

Semester-Hour programs:

Fall and Spring Semesters:	
MWF Classes	6 (per semester)
T TH Classes (or any class that meets for one and one-half hours two times per week)	4 (per semester)
Night classes (which meet once per week)	2 (per semester)
Summer Semesters:	
Day and Night Classes	2 (per semester)

Clock-Hour Programs

Full-time	7 (per quarter)
One-half time	4 (per quarter)

A student's absence due to school trips and/or business would not be counted against the allowable number. Three tardies constitute one absence.

In the event that a religious holy day occurs on a date when classes are in session at Texarkana College, a student who is an active member of that religion may be excused form said classes for the actual observance of that holy day. In order to qualify for such an excuse the student must, no later than the 15th calendar day after the first day of the semester in which the holy day occurs, file a notification of absence with each instructor in whose class the student is enrolled. These forms are obtainable in the office of the Dean of Students.

It should be noted that in such occurrences, the student is responsible for all work missed during such absences. In addition, instructors may require a letter of verification of the observed holy day form the religious institution. Only those religions whose places of worship are exempt from property taxation under Section 11.20, Tax Code, qualify for this provision.

Assemblies

At the discretion of the Administration special assemblies will be announced. These assemblies will present programs of broad interest or of cultural value.

General Academic Regulations

The unit for counting credits is the semester hour. A semester hour is defined as one hour of class work a week or its equivalent in laboratory pursued for one semester.

The following grades are used in evaluating the student's work: A, B, C, D, F, I, and W. A, B, C and D are passing grades; F is failure. The grade (I) indicating incomplete work, or absence from examination by excuse, must be made up by mid-term of the next semester; otherwise, the incomplete (I) becomes an F.

The value of each grade in grade points is as follows: A-4;; B-3;; C-2; D-1; F-0 per semester hour.

The normal load for full time students is five courses (15 to 18 hours academic work). Except by special permission of the Dean, students will not be permitted to take more than this normal load. Prior approval of the Dean of Instruction may be requested if a day division student desires to enroll in six academic courses. The student must have maintained a grade point average of 3.0 and must have enrolled for at least 12 semester hours in the preceding semester.

No more than seven (7) hours of academic work may be taken by a student each summer session.

Grade Reports

Reports on the work of students will be issued at the end of the semester.

Examinations

The examinations given consist of regular and special examinations. Regular examinations are given at the end of each semester according to a schedule determined by the Dean of Instruction. These examinations are taken by all students. There are no exceptions.

Examinations given during the semester are to be scheduled at the discretion of the instructor, preferably on the completion of a unit of work. These should be given frequently enough so that a check of progress may be made and the student given the experience of evaluating the work covered.

Special examinations are those given to students to remove conditions on subjects when the condition was caused by time lost due to illness or some other emergency. In order to be permitted to take a special examination the student must secure the approval of the Dean and the teacher of the course.

Conduct

Students of Texarkana College are expected to obey the laws of the land, the regulations of the College, and to act in keeping with the accepted customs of society.

While the administration and discipline committee cannot assume full responsibility for students when they are not on campus, the College reserves the right to dismiss a student whose conduct is deemed improper or is detrimental to the welfare of the college community.

There are four general campus regulations:

1. There will be no smoking in the classrooms or in the library.
2. The consumption or possession of alcoholic beverages and/or unlawful drugs is strictly forbidden on campus.
3. Gambling, use of profane language, and on-campus possession of firearms are not permitted.
4. Any incident involving violation and conviction of public laws is subject to disciplinary action by the College.

It is the responsibility of the student to become familiar with the "Standards of Student Conduct" set forth in the current TC Student Handbook.

Cheating Policy

Cheating in any degree will make a student liable to disciplinary procedures.

1. The Testing Center employees have designed a form for reporting cheating to instructors. This form should denote the reason for the report, i.e., taking, notes, etc. This is also to be sure there is a written record of the report.

2. If a person is caught taking a test for another person, both students will be subject to disciplinary action instigated by the Dean of Students.

3. If a student is caught cheating they may withdraw immediately with a "W" in the course or they will be dropped by the instructor with an "F".

4. These policies shall be presented in Freshman Orientation, be published in the student newspaper, be posted in the Testing Center, and be incorporated in the *Student Handbook*.

   These policies are intended to be college wide and not just to apply to the Testing Center.

Scholastic Honors

Students enrolled for 12 semester hours or more who make not less than a 3.8 grade point average are placed on the President's List. Those with a grade point average of not less than 3.2 are placed on the Dean's List.

The College awards to graduates with the Associate of Arts Diploma, Associate of Science Diploma, Associate in Applied Science, or Associate of Business Diploma, distinction for excellence in scholarship as follows:

1. Diplomas with High Honor to all students having not less than a 3.8 grade point average on all their college work.

2. Diplomas with Honor to all students having not less than a 3.2 grade point average on all of their college work.

STUDENT SERVICES

Counseling

Texarkana College's staff of professional counselors is available to devote personal attention to everyone in the college community. The Counseling Center is located on the first floor of the Administration Building. Appointments may be made by calling 838-4541, Extension 249.

Special services include:

1. Career counseling regarding vocational choice, occupational information, self-appraisal of interests, aptitudes, and abilities.

2. Academic advisement regarding appropriate choices of courses, educational plans, study skills, and transferability of courses.

3. Confidential personal counseling regarding adjustment and life decisions.

4. Standardized testing to provide additional information about interests, aptitudes, and abilities needed in planning and making decisions.

5. A placement office in which students may obtain needed employment information on off-campus employment.

Testing

1. The General Education Development Tests (GED) are administered in the Counseling Center at TC. The test scores are generally recognized by employers and colleges as the equivalent of a high school education. Individuals interested in taking the test should contact the Counseling Center.

2. Texarkana College is a national test center for the American College Test (ACT) and the College Entrance Examination Board (CEEB). These tests are administered on national test dates throughout the year. Registration packets may be obtained in the Counseling Center.

3. TC is an open test center for the College Level Examination Program (CLEP). Registration guides and information pertaining to CLEP are available in the Counseling Center.

STUDENT ACTIVITIES

Texarkana College encourages and fosters worthwhile student activities under the direction of competent faculty advisors. This is done in the belief that students should experience the opportunity to realize their aspirations and cultivate their interests in popular lines of endeavor outside the classroom.

A general calendar for all student functions will be made up in consultation with the faculty sponsors. No student activity will be approved later than two weeks prior to the date on which the activity is to be held. The Dean of Program Development maintains the official college activity calendar, but all club and student organization activities should be cleared through the Office of the Dean of Students for specific functions.

All funds for every organization must be deposited in and disbursed from a central student activity account. Disbursement will be made on the presentation of properly executed vouchers.

The expense of social affairs given by various clubs must be paid by the organization sponsoring the function.

Student Senate

The Student Senate of Texarkana College is composed of a chairman, vice-chairman, secretary, treasurer, and five board members.

The Student Senate is a service organization which assumes leadership promoting worthwhile student enterprises. It also serves as an advisory organization representing the student body in its relationship with the faculty and administration. Students who are elected to serve on the Student Senate receive valuable training and experience in civic leadership.

The Student Senate is sponsored by the Dean of Students.

CLUBS AND ORGANIZATIONS

Agricultural Science Club

The purpose of the Agricultural Science Club is to promote interest in agriculture and broaden the educational activities of the agriculture students. Membership in the club is open to any student actively enrolled in TC and having an interest in agriculture.

Fellowship of Christian Students

A non-denominational Christian organization open to any TC student in good academic standing. Devotionals are held on a regular basis.

Phi Theta Kappa

National Junior College Honorary Scholastic Society which has as its aims the promotion of scholarship, the development of character, and the cultivation of fellowship among the students. To be eligible for active membership, a student must be of good character and must possess recognized qualities of citizenship as judged by a faculty committee. At the time of election the student must be within the upper ten per cent of the regularly enrolled student body.

Political Organizations

The following political organiztaions are active on the campus: The Young Democrats and The Young Republicans.

Pre-Med Society

This organization is designed to interest students planning to pursue a career in any phase of the healing arts. Outside speakers such as dentists, medical doctors, veterinarians, etc., are featured at the Society's regular meetings.

Professional Nurses Club

An organization for professional nursing students. Its purpose is to foster interest in the nursing profession. The Professional Nurses Club is affiliated with the Texas Nursing Students Association and the National Student Nurses Association.

Rodeo Club

An organization of students whose membership is open to anyone interested in the sport of rodeo. The purpose is to encourage active interest and participation in this competitive sport. The club sponsors rodeos during the fall and spring semesters.

Texarkana College Players

The purpose of this organization shall be to promote interest and participation in theatre activities among the student body; to provide quality entertainment for members, the student body, and the community; and to uphold the ethical and scholastic standards of educational theatre. Any student in good scholastic standing may be a member of the players.

Vocational Nurses Club

An organization for the vocational nursing student. This organization is to develop individual qualities of leadership, tolerance and objectivity, and to stimulate interest in participation in Vocational Nursing organization.

STUDENT PUBLICATIONS

The TC Campus News

The TC News is the college newspaper published by and for the students. Students who are interested in journalism find the opportunity to serve on the staff of the TC Campus News is a real chance for the development of leadership.

ATHLETICS AND SPORTS

Texarkana College sponsors programs in athletics, intramurals and recreational activities to meet the social and physical needs of students.

The intramural program offers a variety of facilities and activities for students who desire to participate in them.

For those students who wish to compete on an intercollegiate level in athletics, golf and baseball are available. The College baseball team is a member of the Northeast Texas Junior College Conference.

STUDENT SERVICE FEE

All students attending Texarkana College are assessed a Student Service Fee. Those students enrolled in semester hour courses are charged $1.00 per semester hour up to a maximum of $14.00 per semester. Students enrolled in clock hour programs are charged the equivalent of $3.50 per quarter for part-time students, and $7.00 per quarter for full-time students. This fee entitles students to attend all College sponsored activities, to vote in campus elections, to receive the student newspaper, and free use of recreational facilities.

FEES

Laboratory and equipment use fees shall be charged each semester as follows:

Car Sticker	
Fall Semester	$ 8.00
Spring Semester	5.00
First Summer Session	3.00
Second Summer Session	3.00
English Placement Test	1.00
Extension Fee	10.00
Graduation Fee	10.00
I.D. Card Fee	1.00
Replacement I.D.	5.00
Individualized Fee	10.00
Late Registration Fee	10.00
Liability Insurance (Fall semester Nursing)	15.00
Liability Insurance (EMT)	65.00
Local Credit by Exam (per semester hour)	10.00
Math Placement Test	1.00
Matriculation Fee	15.00
NLN Exams (payable with NUR 217)	10.00
Schedule Change	5.00
Official Transcript	2.00

Laboratory

Agriculture-for each course	$ 5.00
Art 235	10.00
Art 236	10.00
Art 238	10.00
Art 239	10.00
Biology-for each course	7.00
Chemistry-for each course	5.00
Computer Science-for each course	15.00

Cosmetology-per quarter	10.00
CJA 241 (firearms)	24.00
Data Processing-for each course	8.00
Drafting 133, 231, 235	8.00
Drafting-all courses except 133, 231, 235	3.00
Electronics Technology-for each course	3.00
EMT-for each course	5.00
FAM 131	20.00
Nursing-for each course	5.00
Office Machines-for each course	5.00
Physical Science-for each course	3.00
Physics-for each course	6.00
Printing-for each course	5.00
Typing-for each course	3.00
Welding	(full-time) 24.00
	(half-time) 21.00
Word Processing	6.00

Physical Education Fees

Bowling	$24.00
Personal Fitness	24.00
Fitness Maintenance	12.00
Regular P.E.	5.00
Sailing	24.00
Scuba	24.00
Skating	24.00

Music Fees (for private music)

One 30-minute lesson per week, one hour credit	$37.50
Two 30-minute lessons, or one hour lesson per week, 2 hours credit	75.00

Aviation Technology (regular tuition and fees, plus aircraft rental)

Cessna 150	$28 per hour solo-$38 per hour dual
Cessna 152	$28 per hour solo-$38 per hour dual
Cessna 172	$38 per hour solo-$48 per hour dual
Mooney M20J	$50 per hour solo-$60 per hour dual
Dual charge in owner's aircraft	$15 per hour
Flightmatic Simulator	$ 7 per hour solo-$15 per hour dual

Aviation Technology students will be required to make a refundable deposit of $50.00 in the college Business Office before being permitted to fly in Texarkana College aircraft.

TUITION

The school year is divided into two semesters of sixteen (16) weeks each and two (2) summer sessions. The students are charged accordingly for all fees. Tuition must be paid in full at the time a student registers. No student will be allowed to register after the second (2nd) class day in a sixteen (16) week semester or the first (1st) class day during a summer session or a second (2nd) class day during a quarter.

SCHEDULE OF GENERAL CHARGES FOR ALL STUDENTS EACH SEMESTER

The charges as listed cover tuition for the number of semester hours indicated. These are due and payable upon registration.

Residency either **IN-DISTRICT or IN-STATE** is defined to be living within the district or state for the twelve months period immediately preceding the date of registration.

TEXARKANA COLLEGE *SCHEDULE OF TUITION

Hrs.	In-District Students	Out-of-Dist Students	Arkansas Residents	Non-Resident Students
3	$ 65.00	$ 80.00	$ 80.00	$265.00
4	70.00	90.00	90.00	280.00
5	75.00	100.00	100.00	295.00
6	90.00	120.00	120.00	310.00
7	105.00	140.00	140.00	325.00
8	120.00	160.00	160.00	340.00
9	135.00	180.00	180.00	355.00
10	150.00	200.00	200.00	370.00
11	165.00	220.00	220.00	385.00
12	180.00	240.00	240.00	400.00
13	195.00	260.00	260.00	415.00
14	210.00	280.00	280.00	430.00
15	225.00	300.00	300.00	445.00
16	225.00	300.00	300.00	445.00
17	225.00	300.00	300.00	445.00
18	225.00	300.00	300.00	445.00
19	225.00	300.00	300.00	445.00
20	225.00	300.00	300.00	445.00

CLOCK HOUR PROGRAMS PER QUARTER

	In-District	Out-of-Distirct	Non-Resident
Full-time	$120.00	$160.00	$370.00
Half-time	$ 60.00	$ 80.00	$235.00

VOCATIONAL NURSING - PER YEAR

$240.00 (this is tuition only and does not include books, books, fees, etc.)

*These amounts do not include course related and other institutional fees. The tuition schedule is subject to change. Consult each semester's class schedule for current charges.

EMT Students Only

Lab Fee (each semester)	$ 5.00
Liability insurance	65.00
Graduation certificate (EMT 152 & EMT 244)	15.00
A.H.A. Certification Testing	25.00

Policy Concerning Refunds

Semester Hours

Upon presentation to the Business Office of an official record from the Admissions Office showing total withdrawal from all courses during the spring or fall semesters from Texarkana College, a refund of tuition and course related fees will be made as follows: (a) 100% prior to the first class day less $15.00 matriculation fee, (b) 80% during the first five class days; (c) 70% during the second five class days; (d) 50% during the third five class days; (e) 25% during the fourth five class days; (f) none after the fourth five class days. Non-course related fees such as I.D., parking, insurance, and Student Service Fees are not refundable.

Students who reduce their semester credit hour load during the spring or fall semesters by officially dropping a course or courses and remain enrolled at the institution, will have 100% of applicable tuition and course related fees refunded during the first twelve class days.

Refunds for the summer sessions are made according to the following schedule: (a) 100% prior to the first class day, less $15.00 matriculation fee; (b) 80% during the first, second, or third class day; (c) 50% during the fourth, fifth, or sixth class day; (d) none after the sixth class day. Non-course related fees such as I.D., parking, insurance, and Student Service Fees are not refundable.

Students who reduce their semester credit hour load during a summer session by officially dropping a course or courses and remain enrolled at the institution will have 100% of applicable tuition and course related fees refunded during the first four class days. A class day is defined as any day on which classes are held at the college - normally Monday through Friday.

Clock Hour

Career Education Center (including Vocational Nursing) refunds are made according to the following schedule: (a) 100% prior to the first class day, less $15.00 matriculation fee; (b) 80% during the first five class days, (c) 50% during

the second five class days; (d) 25% during the third five class days; (e) none after the third five class days. Non-course related fees such as I.D., parking, insurance, and Student Service Fees are not refundable.

Returned Checks

There will be a fee of $10 for all returned checks.

Reimbursement for returned checks shall be made with cash or money order only. Students failing to make payment or exercise their due process rights within seven days after being notified by the Business Office, shall be dropped from all classes, official records will be restricted, and prosecution will be initiated.

Students attempting to drop courses by stopping payment on their checks instead of initiating approved drop procedures through the Admissions Office shall be subject to the normal returned check penalties.

Vehicles

Everyone who operates a vehicle on campus must have a valid drivers license and be in compliance with the state law with regards to liability insurance. All students driving a vehicle on campus must obtain a parking permit. Campus security officers will be on duty to enforce these regulations.

Debts

Anyone owing a debt to the college may be dropped from class and records withheld until the debt is paid.

Audit Policy

Permission to audit certain courses is granted by the Director of Admissions if vacancies exist at the close of regular registration. Such permission gives only the privilege of observing and does not include submitting papers or taking tests. Names of persons auditing will not be entered on class or registration records.

Application for Audit forms may be obtained in the office of the Director of Admissions. Charges for auditing eligible courses are the same as for regular registration in the course.

Exemptions of Veterans

Men and women who are citizens of Texas, who were residents of Texas at the time of induction, and who served in the armed forces and were honorably discharged therefrom (except certain limitations for age, personal requests, and period of service) and who are not eligible for educational benefits provided for veterans by the U.S. Government, are exempted from certain required fees but not for deposits, course fees, and certain fees fixed for all students. To obtain this exemption a photostatic or certified copy of the discharge papers and a notarized statement by the veterans that all benefits have expired must be presented to the Business Office at registration.

LATE REGISTRATION FEE

A late registration fee of $10.00 will be charged all students who enroll after the last designated (regular registration) day of any semester, session or quarter.

FINANCIAL ASSISTANCE

Employment

The college will attempt to find part-time work for those students who wish to work for a part of their college expense. Everything possible will be done to assist worthy students in finding such work. A Student Placement Service, administered by the Counseling Center, is maintained for the primary purpose of helping students secure part-time employment. This service also includes personal interviews, the maintenance of personal records, and the list of job opportunities.

Instructions to Applicants for Financial Assistance

This is to inform you of the various programs of financial assistance available at Texarkana College and the procedure for obtaining financial aid.

Types of Financial Aid

1. Guaranteed Student Loan Program
2. College Work Study Program
3. Pell Grant
4. Texas State Student Incentive Grant

Steps to take in obtaining Loans and Scholarships

1. Before a student can be considered for any specific program, an ACT Family Financial Statement must be completed by the student and approved by his/her parent, guardian, or spouse. (May be obtained from high school counselor, Financial Aid Office or Counseling Center.)
2. Complete a request for financial aid form. (Financial Aid Office or Counseling Center.)
3. When the ACT Analysis is received in the Financial Aid Office a need analysis is made and the student informed of approval or disapproval of the aid requested.
4. Since aid is awarded only to students who satisfactorily complete the requirements for admission to the college, it is necessary that beginning students have the following items on the file in the Admissions Office.

(a) Admission Application
(b) High School Transcript showing rank in class
(c) Entrance Examination Scores
(d) College Transcript (If transfer student.)

Applications Deadline

Applications should be submitted by June 15.

Scholarships

Texarkana College annually awards a significant number of academic scholarships to deserving students who have demonstrated outstanding scholastic ability. Inquiries concerning academic scholarships should be directed to the Office of the Dean of Students.

Some of the scholarships awarded annually include:

The Bruce Douglas Memorial Music Scholarship is awarded to an outstanding student majoring in music. The award was established in memory of the outstanding musical and leadership qualities of the late Bruce Douglas, a TC student in 1969-70.

The Texarkana College Faculty Association awards one or more scholarships annually to students selected on the basis of scholarship, character, and need. The scholarship is given in honor of former members of the Texarkana College faculty. Inquiries concerning this scholarship should be directed to the president of the Faculty Association.

The Texarkana College President's Scholarships are awarded annually to ten area high school graduates who have demonstrated the highest qualities of scholarship, leadership, and participation in extracurricular activities during their high school careers. These awards are for $500 per semester for both the fall and spring semesters of the freshman year.

The Southern Clinic scholarships are available to an entering student in the William Buchanan Associate Degree Nursing Program and an entering student in the Vocational Nursing Program. Students are selected by the nursing faculty and Southern Clinic with major emphasis placed on academic standing, nursing ability, aptitudes, and financial need.

The Dr. Tom Wilbanks scholarships are awarded to area high school graduates who have exhibited the very highest standards of scholarship, service, and good character. No specific number is awarded annually. Rather, awards are made when applicants are available who meet these strict standards. This award is in the amount of $500 per semester for both the fall and spring semesters of the freshman year at Texarkana College.

The Burnham Jones Memorial Scholarship is awarded annually to a student who has demonstrated high qualities of leadership, scholarship, and citizenship. It is awarded by the TC Student Senate in recognition of the many years Mr. Jones served on the College Board of Trustees.

The Paul and Carmon McFerran Scholarship is presented annually to a student who has demonstrated outstanding ability in the field of science and/or mathematics. This scholarship honors two previous members of the TC faculty.

A limited number of scholarships are awarded to outstanding high school graduates from TC's service area. These are awarded on the basis of high school grades and scores on the ACT examination.

The Truman Arnold Business Scholarships provide five annual scholarships with a value of $250 per semester to students majoring in business. Considerations are scholastic aptitude and financial need.

A limited number of scholarships are awarded annually by departments within the college, such as music, agriculture, nursing, etc. Inquiries concerning these scholarships should be directed to the chairman of the desired department.

In addition to these scholarships, a number of other awards are presented annually by organizations in the TC service area. Inquiries concerning these scholarships may be directed to the Dean of Students.

The Jake and Bessie Eldridge Scholarships are awarded each spring to one or more students completing two years of study at Texarkana College and planning to attend a public senior institution of higher education in Texas. Applicants must demonstrate outstanding academic ability, have need of financial assistance, and possess exemplary personal standards. These scholarships will cover the actual cost of tuition and fees, plus a book allowance. In addition they may cover a portion of other expenses. Applications for these scholarships, which are awarded on a competitive basis, may be obtained in the Office of the Dean of Students.

NOTE: Application for these TC scholarships should be made no later than the second Friday in April. All applications must be accompanied by a high school transcript and ACT scores, or a transcript from the last college or university attended. All scholarship applications are available in February. All recipients of scholarships presented by Texarkana College must be full-time students during the period of study for which the award is made. No TC academic scholarships are awarded during the summer sessions.

REHABILITATION ASSISTANCE

The Texas Rehabilitation Commission offers assistance for tuition and required fees to students who have certain physical or emotional handicaps, provided the vocational objective selected by the handicapped person has been approved by an appropriate representative of the Commission. Through this State agency, other rehabilitation services are available to assist handicapped persons to become employable.

Application for this type of assistance should be made to the nearest Rehabilitation office. Inquiries may be addressed to: Commission, Texas Rehabilitation Commission, Medical Park Tower, 1301 West 38th Street, Austin, Texas, 79705 or Arkansas Rehabilitation Service, 720 E. 5th, Texarkana, Arkansas.

EVENING AND CONTINUING EDUCATION DIVISION

For the convenience of the students, Texarkana College's Continuing Education Division offers credit courses in the evening. The same courses offered during the day are also offered in the evening with the exception of some nursing courses. Individuals may attend from one to four evenings per week in classes depending on the courses or programs selected. Approximately 85% of TC's evening students also have full-time jobs.

Areas available in the Continuing Education Division are College Credit Courses, Vocational-Technical Courses (local credit), Community Service Courses, and Allied Health Courses.

GENERAL INFORMATION

Information concerning entrance requirements, registration, tuition and fees, schedule of classes, dropping, adding or withdrawing, parking regulations, tuition refunds, etc. are the same as required by the college during the day.

NON CREDIT/COMMUNITY SERVICE COURSES AND PROGRAMS

Non Credit/Community Service courses are offered throughout the year. Many of our courses provide opportunities for individuals to prepare for new jobs, to upgrade occupational skills and to improve personal and family life. Other courses teach new arts and crafts for greater enjoyment of leisure time. Instruction is presented in seminars, workshops or short course format. The length of the courses will depend on the amount of time necessary to cover the subject. Tuition for these courses varies as the actual cost of conducting each course is not the same. However, in no case is the tuition great enough to constitute a problem for anyone who is genuinely interested in further education.

SCHEDULES. . . .Community Service schedules are published in the spring, summer and fall. Copies of the current schedule are available in the Continuing Education office. A copy will be mailed to you upon request, call us at 214/838-4541, extension 270, or send your name and address to Texarkana College, Continuing Education Division, 2500 N. Robison Road, Texarkana, TX 75501. Our course offerings vary from semester to semester depending on the demand and trends.

CEU'S. . . .A CEU (Continuing Education Unit) is defined as "ten contact hours of participation in an organized continuing education course." CEU's are recognized nationally as a means of recording, accounting and providing recognition for particpation in non-credit educational activities. A CEU certificate will be given to each student successfully completing a CEU course. Non Credit/Community Serivce courses include:

ARTS AND CRAFTS

Calligraphy
Cake Decorating
Pastel Painting
Photography
Artistic Adventure for Children

BUSINESS RELATED

Bookkeeping, I and II
Common Sense Approach to Investments
Computer Literacy
DOS
LOTUS 1-2-3
Symphony
Data Entry
Word Processing
Shorthand, I and II
Typing
Fundamentals of Microcomputer
Intro. to BASIC Computer Programming
Modivation and Productivity
Small Business Administration
Business Letter Writing

SPECIAL INTEREST

Commissioned Security Officer Training
Contracting Your Own Home
Defensive Driving
Pet Grooming
Prepared Childbirth
Prepared Childbirth Refresher
Prepared Childbirth - C Section
Landscaping
Lawnmower and Small Engine Repair
Phase III Cardiac Rehabilitation
Piney Woods Hammer In
Bladesmithing Seminars
Fire Academy
Interior Design
Pre-Retirement Seminars
Yoga and Nutrition

SPORTS AND RECREATION

Acro Gymnastics, Beginning & Intermediate
Adult Fitness and Wellness
Aerobics for Women
Competative Swimming
Country and Western Dance, Beginning and Intermediate
Fencing, Beginning and Intermediate
Scuba
Swimming for Terrified Adults
Swimming for Children, 6 months and up
Water Workouts for Women
Water Workouts for People with Arthritis
Kayaking
Canoeing

ALLIED HEALTH

Activity Director's Workshops
Advanced Cardiac Life Support
Advanced Trauma Life Support
Basic Cardiac Life Support (CPR)
Cancer Nursing Seminars
Child Care Employee Seminars
Counseling Seminars
Critical Care for Nursing
Dietary Manager Training
EKG Technician
Emergency First Aid for Children
EMT & EMT-P Seminars
Emergency Nursing Seminars
Gerontology Courses
Nurse Aide Training
Legal Liability of Nursing Practice
Management Training for Nurses
Medical Insurance
Medical Office Procedures
Medical Terminology
Nursing Home Administrator's Workshops
Nursing Home Training
OB/Neonatal Seminars
Orthopedic Workshops
Pediatric & Adult Physical Assessment
Phlebotomy Training
RN State Board Review Courses
Social Workers Seminars
Successful Women Seminars

Allied Health offerings serve the professionals in the community by providing approved continuing educational opportunities which help to update and review skills and knowledge needed to maintain quality care. Allied Health programs also provide training for individuals entering specific health occupations.

Texarkana College's Allied Health offerings are submitted for prior approval when applicable from the following agencies:

Arkansas Department of Human Services, Office of Long Term Care for Nursing Home Administrators
State of Louisiana Board of Examiners for Nursing Home Administrators
Texas Board of Licensure for Nursing Home Administrators
Texas Department of Health for Activity Directors
Dietary Managers Association for F.S.S. and D.M.'s
Emergency Nurses Association for CEN's
American Association of Critical Care Nurses for CCRN's
American Medical Record Association for R.R.A.'s and A.R.T.'s
Texas State Board of the Examiners for Professional Counselors for L.P.C.'s
State of Arkansas Board of Examiners in Counseling for L.P.C.'s
The National Registry of Emergency Medical Technicians for EMT's and EMT-P's
Arkansas Department of Health for EMT's and EMT-P's
Texas Department of Health Division of Emergency Medical Services for EMT's and EMT-P's
The National Accrediting Agency for Clinical Sciences for Phlebotomy Training

National Board for Certified Counselors, Inc. for NCC's and NBCC's
Texas Certification of Alcoholism and Drug Abuse Counselors for TADDAC's
Texas Department of Human Services for Social Workers and Case Workers
State of Arkansas Social Work Licensure Board for Social Workers and Case Workers
American Association of Nurse Anesthetists for CRNA's
The American Heart Association, Inc. for CPR training
Texas Department of Human Services Child Care Licensure Division for Child Care Center Employee Training
State of Arkansas Child Support Enforcement for Child Care Center Employee Training

SENIOR CITIZEN PROGRAM

Texarkana College extends to the senior citizens within the Texarkana College Service area the privilege of becoming a member of our Senior Citizen Program. At age 60 or over you may apply for a special ID card to be issued in the Continuing Education Office. Proof of age will be required, such as a driver's license, birth certificate, or any other positive identification. You must apply in person for your card. A campus parking permit will be issued with each ID card. These are good for one year from the date purchased. The charge for the original card and each renewal is $1.00 per year. The holder of this card will be allowed the following privileges:

1. Use of library.
2. Use of C.O. Pinkerton Health & Recreation Center: heated, olympic-size swimming pool; racquetball courts; tennis courts; weight room; sauna; aerobic/exercise room; multi-use gym.
3. Free school counseling.
4. Same privileges as TC students on attending college sponsored activities in the auditorium, such as concerts, plays, etc. These activities may be free of charge or with a discount.
5. Pay only one-half fee on most non-credit courses.
6. May audit any college credit course free of charge on a space available basis, except certain courses which are not eligible for audit. For further information contact the Continuing Education Office.

PROGRAMS OF STUDY

AGRICULTURE

The program of instruction in Agriculture offers coursework for the Associate in Science Degree and the first two years of study toward a bachelor's degree. Curricula are designed for students majoring in agricultural education, agricultural economics or agri-business, plant and soil sciences, agricultural engineering, food science, forestry, pre-veterinary medicine, and wildlife science. Due to varying degree requirements at different universities and the availability of a number of options within certain agricultural fields of study, students should confer with their faculty adviser or counselor in developing a plan of study.

AGRICULTURE

FRESHMAN YEAR

1st Semester	Hours
AGR 111	1
AGR 131	3
AGR 141	4
MTH 131	3
ENG 131	3
HST 133	3
Physical Education	1
	18

2nd Semester	Hours
AGR 143	4
BIO 144	4
ENG 132	3
HST 134	3
*MTH or Computer Science	3
Physical Education	1
	18

SOPHOMORE YEAR

1st Semester	Hours
CHM 141 or 143	4
ENG (Sophomore)	3
PSI 231	3
BIO 143	4
**Agriculture Elective	3
	17

2nd Semester	Hours
CHM 142 or 147	4
BIO 243	4
PSI 232	3
SPE 131 or 133	3
**Agriculture Elective	3
	17

* The student should consult the catalog of the college or university to which he/she plans to transfer.

** Consult adviser in course selection.

AGRI-BUSINESS MANAGEMENT

(Associate Degree in Applied Science)

The curriculum in Agri-Business Management is designed for those students who wish to terminate their formal college training after two years of study and obtain employment in agricultural business management positions. The program is designed to provide extensive training in farm and ranch management operations as well as enabling the graduate to function effectively in other agricultural business positions.

FRESHMAN YEAR

1st Semester	Hours
AGR 111	1
AGR 131	3
AGR 141	4
ENG 131	3
MTH 131	3
ABM 131	3
	17

2nd Semester	Hours
AGR 143	4
DPM 140 or ACC 231	3-4
SOC 131	3
ABM 144	4
SPE 131	3
	17-18

SOPHOMORE YEAR

1st Semester	Hours
ABM 236	3
ABM 243	4
HST 133 or 134	3
Required Electives	6-8
	16-18

2nd Semester	Hours
ABM 142	4
ABM 247	4
Required Electives	6-8
	14-16

Required Electives: Four courses from ABM 132, 143, 231, 235, 241, 242, 245, or 249. (Courses with an AGR prefix and other courses may satisfy the required electives with approval.)

AIR CONDITIONING/REFRIGERATION

The Air Conditioning/Refrigeration courses require six quarters or eighteen months for completion. The courses are one quarter in length and all are offered each quarter. The instruction is individualized and students in the same shop study different topics. Each course contains 360 hours of instruction with the ratio of lecture to laboratory adjusted as needed. Each student will be required to attend and successfully complete classes in related mathematics, communications, and small business management (60 hours per quarter)* during each quarter of enrollment. The student who is capable may test out of studies in some of the related areas. The courses in Air Conditioning/Refrigeration are:

1st Quarter

ACR 161 Basic Electricity.....360 clock hours

2nd Quarter

ACR 162 Basic Refrigeration and Air Conditioning Theory....360 clock hours

3rd Quarter

ACR 163 Heating.....360 clock hours

4th Quarter

ACR 164 Residential Air Conditioning.....360 clock hours

5th Quarter

ACR 165 Commercial and Industrial Air Conditioning I.....360 clock hours

6th Quarter

ACR 166 Air Conditioning/Refrigeration Internship .....360 clock hours

*Students in Air Conditioning/Refrigeration will take Related Communications, Related Math, Small Business Management, and Applied Drafting.

ART

The curriculum in art is designed for either students who wish to transfer to other colleges and universities, or those who only wish to acquire skill and knowledge in creating. Drawing, painting, sculpting, and observing will allow each student to discover his/her unique means of expression.

Texarkana College art classes offer a very rare ingredient in art training today - individual attention. Small classes form the backbone of the structure necessary for creativity. This is not just a convenience; it is a way of teaching.

Although we offer many advantages over a larger four-year university, all the classes are geared for transfer into any accredited college or university.

FRESHMAN YEAR

1st Semester	Hours
ART 131	3
ART 133	3
ENG 131	3
Foreign Language	4
ART 137	3
Physical Education	1
PSY 111	1
	18

2nd Semester	Hours
ART 134	3
ART 132	3
ENG 132	3
Foreign Language	4
Physical Education	1
U.S. History 133	3
	17

SOPHOMORE YEAR

1st Semester	Hours
ART 233A or 234A	3
ART 235 or 238	3
English (Sophomore)	3
Foreign Language	4
PSI 231	3
	16

2nd Semester	Hours
ART 234B or 233B	3
ART 236 or 231A	3
Elective	3
Foreign Language	3
PSI 232	3
	16

Consult the catalog of the four year institution to which you intend to transfer.

AUTO BODY REPAIR

The Auto Body Repair program requires five quarters or fifteen months for completion.The courses are one quarter in length and are all offered each quarter. The instruction is individualized and students in the same shop study different topics. Each course contains 360 hours of instruction with the ratio of lecture to laboratory adjusted as needed. Each student will be required to attend and successfully complete classes in related mathematics, communications, and shop management (60 hours per quarter)* during his initial quarters of enrollment. The student who is capable may test out of studies in some of the related areas. The courses in auto body are:

1st Quarter

ABR 161 Basic Body Shop.....360 clock hours

2nd Quarter

ABR 162 Minor Body Repair.....360 clock hours

3rd Quarter

ABR 163 Major Body Repair.....360 clock hours

4th Quarter

ABR 164 Automotive Body Refinishing.....360 clock hours

5th Quarter

ABR 165 Advanced Body Shop.....360 clock hours

*Students in Auto Body will take Related Communications, Related Mathematics, and Small Business Management.

AUTOMOTIVE MECHANICS

The Automotive Mechanics program requires six quarters or eighteen months for completion. The courses are one quarter in length and are designed to be taken in any order. Each course contains 360 hours of instruction, with the ratio of lecture to laboratory adjusted as needed. Each student will be required to attend and successfully complete classes in related mathematics, communications, and shop management (60 hours per quarter)* during his initial quarters of enrollment. The student who is capable may test out of studies in some of the related areas. The courses in automotive mechanics are:

1st Quarter

AUM 161 Engine Maintenance and Overhaul.....360 clock hours

2nd Quarter

AUM 162 Engine Systems and Tune-up Practices .....360 clock hours

3rd Quarter

AUM 163 Chassis and Suspension and Maintenance .....360 clock hours

4th Quarter

AUM 164 Drum and Disc Brake Systems .....360 clock hours

5th Quarter

AUM 165 Electrical Systems and Air Conditioning.....360 clock hours

6th Quarter

AUM 166 Power Train Maintenance and Assembly of Standard and Automatic Transmissions .....360 clock hours

*Students in Auto Mechanics will take Related Communications, Related Math and Small Business Management.

Aviation Technology

Introduction

This program is designed to teach pilot and ground school certification courses. Certification and/or ratings may be obtained in the following areas: private, commercial, instrument, multi-engine, and in professional flight instructor certification. All courses are approved by the Federal Aviation Administration.

For the career minded student, Texarkana College offers the Associate Degree in Applied Science in Aviation Technology, or the non-degree professional pilot's course. An information and cost sheet listing requirements for enrollment is available.

Entrance Requirements

1. High school graduate.
2. Must be able to pass the G.E.D. tests in lieu of the high school diploma.
3. Must be able to show evidence of passage of at least a second class medical certificate.
4. Individual approval, after counseling.

The Aviation Technology department does all the flight training on a one-to-one student-teacher ratio. This means in order for a student to complete a course on schedule, a limited enrollment is required. Before attempting to enroll, a student must contact one of the counselors for counseling. During this counseling session, the student completes an information sheet about himself/herself and his/her flying experience, medical history, education, etc.

Aviation Technology - Regular Tuition and Fees, Plus Aircraft Rental

Cessna 150.....$28 per hour solo-$38 per hour dual
Cessna 152.....$28 per hour solo-$38 per hour dual
Cessna 172.....$38 per hour solo-$48 per hour dual
Mooney M20J.....$50 per hour solo-$60 per hour dual
Dual charge in owner's aircraft.....$15 per hour
Flightmatic Simulator..... $ 7 per hour solo-$15 per hour dual

AVIATION TECHNOLOGY

(Associate Degree in Applied Science)

FRESHMAN YEAR

1st Semester	Hours
AIR 141	4
AIR 133	3
ENG 131	3
PHE	1
MTH 131	3
PSY 111	1
Approved Elective	3
	18

2nd Semester	Hours
AIR 238	3
AIR 232	3
AIR 114	1
AIR 225	2
PHE	1
ENG 132	3
Approved Elective	3
	16

SOPHOMORE YEAR

1st Semester	Hours
AIR 135	3
AIR 236	3
AIR 226	2
AIR 217	1
AIR 241	4
PSI 231	3
	16

2nd Semester	Hours
AIR 228	2
AIR 123	2
HST 133	3
SPE 131	3
Approved Elective	3
	13

AIR Electives: 221, 216, 239, 218, 219, 131, 132, 231, 233, 234, 241.

Electives: at least one elective must be selected from the group below to meet graduation requirements:

Accounting, Business Administration, Data Processing, Economics, Biology, Chemistry, Engineering, Mathematics, Physics, Geology, Astronomy, Political Science, Psychology, History, Geography, Speech or English.

BANKING AND FINANCE

(Associate Degree in Applied Science)

The Banking and Finance Program is designed to develop a fundamental background in skills and knowledge for immediate practice in the field of Banking and Finance. Formal classroom study is combined with case studies and actual work experience in order to provide the skills necessary for a career in Banking and Finance. The curriculum is a terminal two year college program leading to an Associate Degree in Applied Science in Banking and Finance.

FRESHMAN YEAR

1st Semester	Hours
BAF 131	3
ACC 231	3
MGT 131	3
BAF 132	3
SPE 131	3
	15

2nd Semester	Hours
BAF 134	3
ECO 231	3
BAF 135	3
ENG 131	3
RLE 133	3
	15

SOPHOMORE YEAR

1st Semester	Hours
MTH 133	3
BAF 232	3
MGT 132	3
BAF 233 or APPROVED support elective	3
SOC 131 or PSY 231	3
	15

2nd Semester	Hours
ACC 232 or APPROVED support elective	3
DAP 132	3
BAF 235	3
BAF 236 or APPROVED functional elective	3
BAF 237 or APPROVED functional elective	3
BAF 238 or APPROVED functional elective	3
	18

Approved Support Electives:

BA 130	SEC 131	SEC 138
BAF 136	PSY 231	SPE 133
BUA 131	ECO 232	ENG 239
BUA 130	BUA 233 & 234	DAP 131
BAF 137		BAF 139
BAF 138		

Approved Functional Electives:

BAF 239
BAF 230

BUSINESS ADMINISTRATION

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
HST 133	3
MTH 133	3
Lab Science	4
*BUA 131	3
PSY 111	1
Physical Education	1
	18

2nd Semester	Hours
ENG 132	3
HST 134	3
MTH 230	3
Lab Science	4
*DAP 130	3
Physical Education	1
	17

SOPHOMORE YEAR

1st Semester	Hours
ENG (Soph.)	3
*PSI 231	3
ECO 231	3
ACC 231	3
DAP or CSI elective	3
	15

2nd Semester	hours
Elective	3
PSI 232	3
ECO 232	3
ACC 232	3
Soc. Sc. elective	3
	15

*Students are urged to follow the degree plan of the college from which they eventually plan to earn a Bachelor's Degree.

BUSINESS EDUCATION

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
SEC 132	3
SEC 135	3
HST 133	3
PSY 111	1
Physical Education	1
MTH 133	3
	17

2nd Semester	Hours
ENG 132	3
MTH 230	3
SEC 233	3
Lab Science	4
HST 134	3
Physical Education	1
	17

SOPHOMORE YEAR

1st Semester	Hours
English (Soph.)	3
*PSI 231	3
ECO 231	3
ACC 231	3
Lab Science	4
	16

2nd Semester	Hours
Elective	3
PSI 232	3
ECO 232	3
ACC 232	3
Soc. Sc. elective	3
	15

*Students are urged to follow the degree plan of the college from which they eventually plan to earn a Bachelor's Degree.

BIOLOGY

The program of instruction in Biology offers courses required for majors in life sciences, health occupations, pre-medicine, pre-dentistry, pre-pharmacy, medical technology, agriculture, and related areas. Non-science majors often enroll in biology courses to meet their laboratory science requirements.

FRESHMAN YEAR

1st Semester	Hours
BIO 141 or 143	4
CHM 141	4
*MTH 136	3
HST 133	3
ENG 131	3
Physical Education	1
PSY 111	1
	19

2nd Semester	Hours
BIO 142 or 144	4
CHM 142	4
*MTH 231	3
HST 134	3
ENG 132	3
Physical Education	1
	18

SOPHOMORE YEAR

1st Semester	Hours
BIO 242	4
CHM 241	4
PHY 141	4
PSI 231	3
ENG (Soph.)	3
	18

2nd Semester	Hours
CHM 242	4
PHY 142	4
PSI 232	3
**CSI 131 or 231	3
Elective	3
	17

*Students who have not completed two years of high school algebra and trigonometry should enroll in MTH 131 and MTH 132 prior to enrolling in MTH 136.

**Consult the catalog of the degree granting university.

CARPENTER'S HELPER AND UPHOLSTERY*

A course designed to teach basic skills for students entering industrial settings such as trailer or furniture manufacturing. The 360 hour curriculum is set up in four quarters each year.

GCH 161 General Carpentry Helper and Upholstery

Upon completion of the Carpenter's Helper and Upholstery program, a certificate will be issued.

*F.C.I. only.

CHEMISTRY

The program of instruction in Chemistry offers courses leading to a bachelor's degree. Chemistry courses are required in many pre-professional programs such as pre-medical science, pre-veterinary medicine, pre-dental science and pre-pharmacy. For specific requirements, the student should consult the catalog of the college or university from which he/she expects to receive a degree. A suggested curriculum leading to a bachelor's degree in chemistry follows:

FRESHMAN YEAR

1st Semester	Hours	2nd Semester	Hours
CHM 141	4	CHM 142	4
ENG 131	3	ENG 132	3
HST 133	3	HST 134	3
*MTH 136	3	MTH 231	3
Physical Education	1	Physical Education	1
PSY 111	1	**Elective	3
***Elective	3		17
	18		

SOPHOMORE YEAR

1st Semester	Hours	2nd Semester	Hours
CHM 241	3	CHM 242	4
ENG (Soph.)	3	CSI 231	3
MTH 232	3	MTH 233	3
PHY 243	4	PHY 244	4
PSI 231	3	PSI 232	3
	17		17

*Students who have not completed two years of high school algebra and trigonometry should enroll in MTH 131 and MTH 132 prior to enrolling in MTH 136.

**Student should consult with advisor and study program from degree-granting institution.

COMMERCIAL MUSIC

(Associate Degree in Applied Science)

Commercial Music is designed as a course of study leading to understanding/functioning in the world of broadcast-recording performance. Students may elect to study traditional methods through the latest MIDI systems. Two sixteen-track tape studios and a complete professional MIDI studio are available for lab work as well as classroom instruction. Hands-on experience is available in all studios by all students.

FRESHMAN YEAR

1st Semester	Hours
MUS 111	1
MUS 115	1
MUS 131	3
CMU 130	3
CMU 131	3
CMU 135	3
ENG 131	3
	17

2nd Semester	Hours
MUS 112	1
MUS 116	1
MUS 132	3
CMU 132	3
CMU 133	3
CMU 134	3
CMU 136	3
	17

SOPHOMORE YEAR

1st Semester	Hours
MUS 211	1
MUS 225	2
MUS 231	3
MTH 131	3
CMU 230	3
CMU 231	3
SPE 133 or 131	3
	18

2nd Semester	Hours
MUS 212	1
MUS 226	2
MUS 232	3
SOC 131	3
CMU 232	3
CMU 233 or 137	3
ENG 132	3
	18

COMPUTER SCIENCE

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
MTH 131	3
CSI 131 or CSI 133	3
CHM 141 or BIO 141	4
HST 133	3
PSY 111	1
PHE	1
	18

2nd Semester	Hours
ENG 132	3
MTH 132	3
CSI 131 or CSI 133	3
CHM 142 or BIO 142	4
HST 134	3
PHE	1
	17

SOPHOMORE YEAR

1st Semester	Hours
ENG (Sophomore)	3
MTH 136	3
CSI 231	3
PHY 141	4
PSI 231	3
	16

2nd Semester	Hours
Elective	3
MTH 231	3
CSI 232	3
PHY 142	4
PSI 232	3
	16

COSMETOLOGY

The cosmetology program at Texarkana College is designed to prepare students for a career in this rapidly expanding area. Presently, there are well over a half million cosmetologists working in beauty salons and the demand for qualified persons is predicted to increase in the future. Earnings and working conditions for cosmetologists are excellent.

This program provides students with classroom study, demonstration, and practical work. After graduation from the cosmetology course, students take the state licensing examination. The examination consists of a written test and a practical test in which applicants demonstrate their ability to provide the required services.

Students in the cosmetology program are kept abreast of the latest fashions and beauty techniques and are ready for immediate employment upon graduation and passing the state test.

1st Quarter

COS 161 Introduction to Cosmetology I ..... 375 clock hours

2nd Quarter

COS 162 Cosmetology II ..... 375 clock hours

3rd Quarter

COS 163 Cosmetology III ..... 375 clock hours

4th Quarter

COS 164 Cosmetology IV ..... 375 clock hours

COSMETOLOGY INSTRUCTOR

This is a 750 clock hour program to allow students to apply for the Instructor's License with the Texas Cosmetology Commission.

1st Quarter

COS 261 Cosmetology Instructor I..... 375 clock hours

2nd Quarter

COS 262 Cosmetology Instructor II..... 375 clock hours

CRIMINAL JUSTICE ADMINISTRATION

(Associate Degree in Applied Science)

Criminal Justice courses are approved by the Coordinating Board and the Texas Commission on Law Enforcement Officer Standards and Education.

FRESHMAN YEAR

1st Semester	Hours
HST 133	3
ENG 131	3
CJA 131	3
CJA 132	3
BIO 141	4
PSY 111	1
	17

2nd Semester	Hours
HST 134	3
ENG 132	3
CJA 133	3
CJA 134	3
BIO 142	4
	16

SOPHOMORE YEAR

1st Semester	Hours
PSI 231	3
ENG Literature Elective	3
CJA 231	3
CJA 232	3
Approved CJA Elective	3
	15

2nd Semester	Hours
PSI 232	3
CJA 233	3
CJA 234	3
Approved CJA Elective	3
SPE 131 or 133	3
	15

Consult the catalog of the four year institution to which you intend to transfer.

DATA PROCESSING

The Data Processing Department at Texarkana College offers courses leading to an Associate Degree in Applied Science in Data Processing and an Associate Degree in Applied Science in Data Processing Using a Microcomputer, and provides the basis of the first two years' study toward a bachelor's degree. In addition, a one-year program is offered leading to a certificate in Programming in Data Processing or in Data Processing Using the Microcomputer, and a one-semester certificate program in data entry.

DATA PROCESSING (Mainframe)

(Associate Degree in Applied Science)

FRESHMAN YEAR

1st Semester	Hours
DAP 130	3
DPM 132	3
DAP 133	3
ENG 131	3
MTH 131	3
PSY 111	1
	16

2nd Semester	Hours
DAP 134	3
DAP 231	3
SPE 131	3
ACC 131 or 231	3
Approved Elective	3
	15

SOPHOMORE YEAR

1st Semester	Hours
DAP 233	3
DAP 234	3
DPM 235	3
Approved Elective	3
DAP/DPM Elective	3
	15

2nd Semester	Hours
DAP 246	4
DAP 232	3
PSI 231	3
SOC 131 or PSY 231	3
Approved Elective	3
	16

Approved Electives—Any course in CSI, ACC, MTH, DAP, DPM, PHY, ELT.

DAP/DPM Electives—DAP 234, DPM 131, DAP 236, DPM 241, DAP 230, DPM 239, DPM 237, DPM 139, DPM 236, DPM 138

DATA PROCESSING (MICROCOMPUTERS)

(Associate Degree in Applied Science)

FRESHMAN YEAR

1st Semester	Hours	2nd Semester	Hours
DAP 133	3	DPM 134	3
DPM 140	4	DPM 133	3
DPM 132	3	DPM 146	4
ENG 131	3	SPE 131	3
MTH 131	3	ACC 231 or 131	3
PSY 111	1		16
	17		

SOPHOMORE YEAR

1st Semester	Hours	2nd Semester	Hours
DPM 240	4	DPM 233	3
DPM 235	3	DPM 232	3
Approved Elective	3	DPM 242	4
MTH 132	3	PSI 231	3
Approved Elective	3	DPM/DAP Elective	3
	16		16

Approved Electives—Any course in CSI, ACC, MTH, DAP, DPM, PHY, ELT.

DPM/DAP Electives—DPM 237, DPM 139, DPM 236, DPM 138, DPM 131, DAP 234, DPM 241, DAP 236, DPM 239, DAP 230

DATA PROCESSING
DATA ENTRY OPERATOR

(A One-Semester Certificate Program)

Course Name and Number	Hours
DPM 140	4
DPM 131	3
BUA 130	3
ACC 131 or 231	3
DPM 240	4
	17

COMPUTER OPERATOR/PROGRAMMER IN DATA PROCESSING

(A one-year certificate program)

1st Semester	Hours	2nd Semester	Hours
DAP 130	3	DAP 233	3
DAP 133	3	DAP 246	4
DAP 132 or 236	3	DAP 234	3
DAP 134	3	DAP 235	3
DAP 231	3	DAP 230	3
ACC 131 or 231	3	DAP 232	3
	18		19

COMPUTER OPERATOR/PROGRAMMER IN DATA PROCESSING USING MICROCOMPUTERS

(A one-year certificate program)

1st Semester	Hours	2nd Semester	Hours
DAP 133	3	DPM 146	4
DPM 140	4	DPM 240	4
DPM 132	3	DPM 235	3
DPM 134	3	DPM 233	3
DPM 133	3	DPM 232	3
ACC 131 or 231	3	DPM 242	4
	19		21

DIESEL MECHANICS

The Diesel Mechanics program requires six quarters or eighteen months for completion. The courses are one quarter in length and are all offered each quarter. The instruction is individualized and students in the same shop study different topics. Each course contains 160 hours of instruction with the ratio of lecture to laboratory adjusted as needed. Each student will be required to attend classes in related mathematics, communications, applied drafting and shop management (60 hours per quarter)* during his initial quarters of enrollment. The student who is capable may test out of studies in some of the related areas. The courses in Diesel Mechanics are:

1st Quarter

DME 161 Internal Combustion Engine I ..... 360 clock hours

2nd Quarter

DME 162 Internal Combustion Engine II ..... 360 clock hours

3rd Quarter

DME 163 Power Applications..... 360 clock hours

4th Quarter

DME 164 Electrical Systems for Diesels..... 360 clock hours

5th Quarter

DME 166 Industrial Co-op Training I ..... 360 clock hours

6th Quarter

DME 166 Industrial Co-op Training II ..... 360 clock hours

*Students in Diesel Mechanics will take related communications, related math, and small business management.

DRAFTING TECHNOLOGY

(Associate Degree in Applied Science)

The Drafting Technology curriculum is designed to prepare the student for a wide range of drafting jobs in industry. Included in the program are courses involving architectural, structural, piping, mapping, illustration, and electrical drafting. Instruction will include practical applications on conventional equipment and on CAD systems. Most courses will involve work on computer drafting systems. Introduction to these computers will occur in the first two basic drafting courses. Computers will play an increasingly important role in the drafting and engineering departments industry, and a major purpose of this program is to prepare the student to use this important tool as the use of the CAD system increases in this area.

Upon successful completion of the curriculum, the student will receive an Associate Degree in Applied Science in Drafting Technology.

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
MTH 131	3
EGR 131	3
DFT 134	3
CSI 131 or CSI 133	3
EGR 111	1
	16

2nd Semester	Hours
SPE 131	3
MTH 132	3
EGR 132	3
DFT 133	3
DFT 135	3
EGR 112	1
	16

SOPHOMORE YEAR

1st Semester	Hours
PHY 141	4
DFT 231	3
DFT 232	3
DFT 233	3
SOC 131	3
	16

2nd Semester	Hours
DFT 234 or DFT 239	3
DFT 235	3
DFT 236	3
DFT 237	3
DFT 238	3
	15

DRAFTING TECHNOLOGY*

(1080 Clock Hour Program)

In recent years with new technologies evolving, Texarkana College is offering a clock hour drafting program that will include special devices fulfilling the concept that computers will assist in Drafting (CAD). This program requires three quarters or nine months for completion. Each course contains 360 hours of instruction with ratio of lecture to law adjusted as needed. Each student will be required to attend and successfully complete related classes in math and communications (60 hours per quarter). The student who is capable may test out of studies in some of the related areas.

1st Quarter

DFT 161 Fundamentals of Drafting ..... 360 clock hours

2nd Quarter

DFT 162 Architectural & Machine Drafting ..... 360 clock hours

3rd Quarter

DFT 163 Pipe Structural & Computer Drafting ..... 360 clock hours

*FCI only

DRAMA

The Drama program at Texarkana College offers courses designed to prepare the student for the successful completion of a Bachelor of Arts Degree in Drama. Through course work and practical production experience, students are provided the opportunity to increase their appreciation for the cultural and vocational values of the dramatic arts.

The Drama program at Texarkana College is an active participant in the Texas Junior College Speech and Theatre Association. It also sponsors a chapter of the national honorary dramatic fraternity Delta Psi Omega, and the campus dramatic organization TC Players. ALL DRAMA MAJORS ARE REQUIRED TO PARTICIPATE IN A MAJOR DRAMATIC PRODUCTION EACH SEMESTER THAT THEY ARE ENROLLED IN THE DRAMA PROGRAM.

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
HST 131 or 133	3
DRA 111	1
DRA 131	3
DRA 134	3
MUS 1115	1
PSY 111	1
	15

2nd Semester	Hours
ENG 132	3
HST 132 or 134	3
DRA 112	1
DRA 132	3
MUS 1116	1
Foreign Languages or Science	4
	15

SOPHOMORE YEAR

1st Semester	Hours
ENG (Soph.)	3
PSI 231	3
DRA 113	1
DRA 135	3
MUS 2115	1
Foreign Language or Science	4
	15

2nd Semester	Hours
Elective	3
PSI 232	3
DRA 114	1
DRA 136	3
MUS 2116	1
SPE	3
Physical Education	11
	15

EDUCATION (Elementary and Secondary)

Texarkana College offers courses to meet the requirements for the first two years toward both Elementary or Secondary Education Certification. Students are urged to follow the degree plan of the college from which they eventually plan to earn a Bachelor's Degree.

ELECTRICITY

The Electricity program requires five quarters or fifteen months to complete. The courses are one quarter in length and are all offered each quarter. The courses are individualized and the students study different topics in the same shop. Each student will be required to attend and successfully complete classes in related mathematics, communications, and shop management (60 hours per quarter)* during his/her initial quarters of enrollment. The student who is capable may test out of some of the related areas.

A student may elect to follow the course of study related to residential wiring, services, and codes; and he/she may elect to go into the program of industrial electricity. This program involves the study of heavier industrial applications, motors, and motor controls. The programs in Electricity are:

ELECTRICITY-RESIDENTIAL

1st Quarter

IEL 161 Introduction to Electric Theory ..... 360 clock hours

2nd Quarter

IEL 162 Basic Wiring and Code ..... 360 clock hours

3rd Quarter

IEL 166 Residential Hardware ..... 360 clock hours

4th Quarter

IEL 167 Residential Services and Calculations ..... 360 clock hours

5th Quarter

IEL 168 Practical Applications of Residential Wiring ..... 360 clock hours

*Students in Electricity will take related communications, mathematics, and small business management.

ELECTRICITY-INDUSTRIAL

1st Quarter

IEL 161 Introduction to Electric Theory ..... 360 clock hours

2nd Quarter

IEL 162 Basic Wiring and Code ..... 360 clock hours

3rd Quarter

IEL 163 Electric Motor Theory ..... 360 clock hours

4th Quarter

IEL 164 Electric Motor Controls ..... 360 clock hours

5th Quarter

IEL 165 Practical Applications of Wiring, Motors, and Controls ..... 360 clock hours

ELECTRONICS TECHNOLOGY

(Associate Degree in Applied Science)

General Information

The current trend of digital and microprocessor technology has altered the emphasis of the electronics program at Texarkana College. Applications of digital and microprocessors in computers, process control systems, robotics, instrumentation, communications, traffic light controllers, copying machines, calculators, word processors, typewriters, automobiles, home appliances, TV video games, point-of-sale terminals, educational and medical equipment have created a demand for electronic technologists.

The electronics program is designed to prepare the student for a wide variety of jobs that exist in manufacturing and service industries. Employment opportunities for graduates are excellent and many jobs currently exist with industries in the Texarkana area.

Upon successful completion of the curriculum, the student will receive an Associate Degree in Applied Science.

Progression Information

1. The grading scale in the Electronics Technology program is as follows:

   92 — 100 = A
   83 — 91 = B
   74 — 82 = C
   65 — 73 = D
   Less than 65 = F

2. Students must achieve at least a grade of "C" in all ELT courses to meet the prerequisite requirements for progression.

ELECTRONICS TECHNOLOGY

(Associate Degree in Applied Science)

FRESHMAN YEAR

1st Semester	Hours
ELT 141	4
ELT 131	3
*MTH 131	3
*MTH 132	3
ENG 131	3
PSY 111	1
	17

2nd Semester	Hours
ELT 142	4
ELT 143	4
ELT 144	4
ELT 145	4
	16

SOPHOMORE YEAR

1st Semester	Hours
ELT 241	4
ELT 243	4
ELT 246	4
PSI 231	3
CSI 131 or CSI 133	3
	18

2nd Semester	Hours
ELT 242	4
ELT 244	4
ELT 247	4
ELT 248	4
SPE 131	3
	19

*A student should have an adequate background in mathematics including two years of high school algebra before enrolling in ELT 141. Otherwise it is recommended the student complete MTH 131 prior to enrolling in ELT 141 and complete MTH 132 prior to enrolling in ELT 142.

EMERGENCY MEDICAL TECHNOLOGY

The Emergency Medical Technology programs at Texarkana College prepare emergency medical technicians for the emergency medical services team. The various preparation levels allow the EMT to choose basic, intermediate or advanced knowledge and skill development. Successful completion at any level entitles the EMT to write State and/or National certifying exams. The American Medical Association and the National Registry of Emergency Medical Technicians require individuals pursuing an EMT career to be in good physical health having good vision, color discrimination and hearing. The EMT should also have strength and stamina to lift and carry up to 100 pounds, manual dexterity, and be eligible for a driver's license. The EMT curriculum is the National Training Course recommended by the U.S. Department of Transportation. Clinical experience including ambulance and hospital is individualized.

BASIC PROGRAM

Course Number	Semester Hours
EMT 141	4
EMT 152	5

Provides the first phase of training the Emergency Medical Technician and prepares individuals for Basic EMT certification. It is a two semester program designed to be part time for that person who is full time employed. Clinical experience is individually scheduled.

INTERMEDIATE PROGRAM

Course Number	Semester Hours
EMT 151	5

Designed to prepare the Basic EMT for intermediate level certification. It is a one semester course with individually scheduled clinical experience. Prerequisite: current Basic EMT certification and current BCLS certification.

PARAMEDIC PROGRAM

Course Number	Semester Hours
EMT 240	4
EMT 261	6
EMT 252	5
EMT 253	5
EMT 244	4

Designed to prepare the Basic or Intermediate EMT for advanced level (paramedic) certification. It is a one year program with individually scheduled

clinical experience. Prerequisite: current Basic or Intermediate EMT certification and current BCLS certification.

ADVANCED CARDIAC LIFE SUPPORT

Course Number	Semester Hours
EMT 241	4

This is a one semester course designed to prepare critical care and emergency personnel for ACLS Provider Certification. The American Heart Association certification examination, administered on campus at the conclusion of the course, is optional.

EMERGENCY MEDICAL TECHNOLOGY

(Associate Degree in Applied Science)

Degree requirements: a minimum of 69 hours of credit with a 2.0 GPA. In addition, a grade of "C" or above is required in science and EMT courses.

FRESHMAN YEAR

1st Semester	Hours
EMT 141	4
ENG 131	3
BIO 145	4
PSY 111	1
	12

2nd Semester	Hours
EMT 152	4
SPE 131	3
BIO 146	4
Math 131	3
	15

SUMMER SESSION

EMT 240	4

SOPHOMORE YEAR

1st Semester	Hours
EMT 261	6
PSY 231	3
ENG 132	3
PSY 234 or DAP course	3
	15

2nd Semester	Hours
EMT 252	5
EMT 253	5
PHE 121	2
MGT 238	3
EMT 241	4
	19

ADMISSIONS REQUIREMENTS

Basic and Intermediate EMT

1. Submit the following to the Admissions Office:
   a. College Application for Admission indicating emergency medical technology as major.
   b. Official transcript from last school attended (or GED).
   c. Current physical examination.
2. Minimum age: 18.
3. ARKANSAS RESIDENTS ONLY: Intermediate level: Arkansas Department of Health requires current Arkansas EMT certificate, six letters of recommendation, and one letter from prospective EMS provider or prospective employer which demonstrates the need for training.

Advanced and Associate Degree EMT

1. Submit the following to the Admissions Office:
   a. College Application for Admission indicating advanced emergency medical technology as major.
   b. Official transcript from last school attended (or GED) with cumulative GPA of 2.0 for any college work.
   c. Current physical examination.
   d. ACT Math and English scores. If ACT scores are not available, arrange with the college counselors to take Math and English placement tests.
   e. Current EMT certification.
2. Arrange an interview with the college Counseling Service, which includes test interpretation and referral information. Call 214-838-4541, extension 249.
3. ARKANSAS RESIDENTS ONLY: Arkansas Department of Health requires current Arkansas EMT certificate, six letters of recommendation, and one letter from prospective EMS provider or prospective employer which demonstrates the need for training.

ENGINEERING

FRESHMAN YEAR

1st Semester	Hours
EGR 111	1
EGR 131	3
*MTH 136	3
*MTH 231	3
CHM 141	4
ENG 131	3
PSY 111	1
PHE	1
	19

2nd Semester	Hours
EGR 112	1
EGR 132	3
MTH 232	3
CHM 142	4
ENG 132	3
HST 133	3
PHE	1
	18

SOPHOMORE YEAR

1st Semester	Hours
EGR 231	3
PHY 243	4
CSI 231	3
ENG (Sophomore)	3
PSI 231	3
	16

2nd Semester	Hours
EGR 232	3
MTH 233	3
PHY 244	4
HST 134	3
PSI 232	3
	16

* A student should have an adequate background in mathematics including two years of high school algebra and one course in trigonometry before taking MTH 136 and MTH 231. Otherwise it is recommended the student take MTH 131 and MTH 132 prior to enrolling in MTH 136 and MTH 231.

ENGINEERING TECHNOLOGY

FRESHMAN YEAR

1st Semester	Hours
EGR 111	1
CHM 141	4
EGR 131	3
MTH 131	3
MTH 132	3
PSY 111	1
Physical Education	1
	16

2nd Semester	Hours
EGR 112	1
CHM 142	4
EGR 132	3
MTH 136	3
CSI 231	2
Physical Education	1
	15

SOPHOMORE YEAR

1st Semester	Hours
SPE 131	3
MTH 231	3
PHY 243	4
HST 133	3
DFT 133	3
	16

2nd Semester	Hours
ECO 231	3
HST 134	3
MTH 232	3
PHY 244	4
PSI 231	3
	16

FASHION MERCHANDISING

(Associate Applied Science)

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
FAM 131	3
FAM 133	3
FAM 141	4
DPM 140	4
PSY 111	1
	18

2nd Semester	Hours
FAM 132	3
MGT 133	3
MTH 131	3
ENG 132	3
FAM 142	4
	16

SOPHOMORE YEAR

1st Semester	Hours
SPE 133 or 131	3
MGT 131	3
FAM 231	3
FAM 241	4
ACC 231 or 131	3
	16

2nd Semester	Hours
FAM 232	3
BUA 236	3
FAM 242	4
MGT 132	3
SOC 131 or PSY 231	3
	16

APAPROVED ELECTIVES:

- MGT 235
- MGT 238
- ENG 031
- FAM 233
- MGT 230
- DAP 132

FOREIGN LANGUAGES

The course work of the foreign language program is organized around the basic language skills—hearing with comprehension, speaking, reading and writing. The courses present the fundamentals of grammar, pronunciation, and also introduce students to the culture and literature of the people.

Texarkana College maintains a modern language laboratory for student practice. Credit by examination is available for students with previous study and experience in the language. Students may pursue one of the two language options: French or Spanish.

FRESHMAN YEAR

1st Semester	Hours
FRE/SPN 141	4
ENG 131	3
HST 133	3
PHE	1
PSY 111	1
*Approved Elective	3
	15

2nd Semester	Hours
FRE/SPN 142	4
ENG 132	3
HST 134	3
PHE	1
*Approved Elective	3
	14

SOPHOMORE YEAR

1st Semester	Hours
FRE/SPN 231	3
ENG (Sophomore)	3
PSI 231	3
*Approved Electives	9
	18

2nd Semester	Hours
FRE/SPN 232	3
PSI 232	3
*Approved Electives	9
	15

*Consult advisor in course selection and catalog of college or university to which you intend to transfer.

FORESTRY

FRESHMAN YEAR

1st Semester	Hours
AGR 111	1
AGR 131	3
BIO 143	4
CHM 141	4
ENG 131	3
MTH 131	3
Physical Education	1
	19

2nd Semester	Hours
BIO 144	3
CHM 142	4
ENG 132	3
HST 133	3
MTH 132	3
Physical Education	1
	17

SOPHOMORE YEAR

1st Semester	Hours
HST 133	3
GEO 141	4
PSI 231	3
MTH 136 or 231	3
PHY 141	4
	17

2nd Semester	Hours
BIO 243	4
ENG (Soph.)	3
AGR 231	3
PSI 232	3
PHY 142	4
	17

Consult the catalog of the four year institution to which you intend to transfer.

JOURNALISM

Journalism courses at Texarkana College include training and development of basic journalistic skills needed by journalism majors or minors transferring to senior colleges. As elective courses for non-majors, journalism serves as an outlet for creative talent and school involvement. All students enrolled in journalism receive practical, hands-on newspaper experience by serving on the staff of TC's award winning newspaper, the TC News.

FRESHMAN YEAR

1st Semester	Hours
JRN 111	1
JRN 231	3
ENG 131	3
HST 133	3
Science	4
PSY 111	1
Physical Education	1
	16

2nd Semester	Hours
JRN 112	1
JRN 232	3
ENG 132	3
HST 134	3
Science	4
Physical Education	1
Math	3
	18

SOPHOMORE YEAR

1st Semester	Hours
JRN 211	1
JRN 233	3
ENG (Sophomore)	3
PSI 231	3
*Elective	3
*Elective	3
	16

2nd Semester	Hours
JRN 212	1
JRN 131	3
Elective	3
PSI 232	3
*Elective	3
*Elective	3
	16

*Refer to four year college/university for specific requirements.

Foreign Language is strongly recommended.

MATHEMATICS

FRESHMAN YEAR

1st Semester	Hours
*MTH 136	3
*MTH 231	3
ENG 131	3
HST 133	3
CHM 141 or Foreign Language or Elective	4
PSY 111	1
Physical Education	1
	18

2nd Semester	Hours
MTH 232	3
ENG 132	3
HST 134	3
CHM 142 or Foreign Language or Elective	4
Physical Education	1
	14

SOPHOMORE YEAR

1st Semester	Hours
MTH 234	3
ENG (Sophomore)	3
CSI 231	3
PHY 243	4
PSI 231 or Foreign Language or Elective	3
	16

2nd Semester	Hours
MTH 233	3
Elective	3
CSI 232	3
PHY 244	4
PSI 232 or Foreign Language or Elective	3
	16

*A student should have an adequate background in mathematics including two years of high school algebra and one course in trigonometry before taking MTH 136 and MTH 231. Otherwise it is recommended the student take MTH 131 and MTH 132 prior to enrolling in MTH 136 and MTH 231. MTH 235 (Differential Equations) is recommended during the summer after the sophomore year and prior to transferring to a senior college in the fall.

Consult the catalog of the four year institution to which you intend to transfer.

MEDICAL TECHNOLOGY

FRESHMAN YEAR

1st Semester	Hours
CHM 141	4
BIO 145	4
MTH 131	3
HST 133	3
Physical Education	1
ENG 131	3
PSY 111	1
	19

2nd Semester	Hours
CHM 142	4
BIO 146	4
MTH 132	3
ENG 132	3
BIO 144	4
Physical Education	1
	19

SOPHOMORE YEAR

1st Semester	Hours
CHM 253	5
CHM 241	4
PHY 141	4
ENG (Sophomore)	3
HST 134	3
	19

2nd Semester	Hours
PSI 231	3
CHM 242	4
PHY 142	4
Elective	3
BIO 242	4
	18

Consult the catalog of the four year institution to which you intend to transfer.

MID-MANAGEMENT

(Associate Degree in Applied Science)

Mid-Management is an innovative, practical management program that permits individuals to develop their management potential and prepare for changing business conditions while working in their present job. The management program is an accredited, practical two-year program for individuals who work at least twenty hours per week in a qualifying job. It is designed for employed individuals in the Texarkana area who must continue their regular jobs. The schedule is planned to meet the needs of both day and evening students including those on rotating shifts.

FRESHMAN YEAR

1st Semester	Hours
MGT 141	4
MGT 131	3
MGT 133	3
ENG 131	3
MTH 131 or 133	3
PSY 111	1
*Physical Education	1
	18

2nd Semester	Hours
MGT 142	4
MGT 132	3
ACC 131 or 231	3
ENG 132	3
PSY 231 or SOC 131	3
*Physical Education	1
	17

SOPHOMORE YEAR

1st Semester	Hours
MGT 241	4
MGT 231	3
MGT 238	3
ECO 231	3
MGT 239	3
	16

2nd Semester	Hours
MGT 242	4
MGT 232	3
MGT 235	3
MGT 237	3
SPE 131 or 133	3
	16

*Can be taken any semester.

Consult the catalog of the four year institution to which you intend to transfer.

MUSIC

General Information

The Texarkana College Department of Music offers the first two years of a curriculum leading toward a Bachelor of Music Education degree, and a Bachelor of Arts with a major in music.

Courses taught are those required for the first two years of a senior college, and if successfully completed will offer no difficulty to the student in transferring to a senior college.

Since the study of music in the first two years is largely the accumulation of fundamental music skills, a suggested course of study is offered which will encourage the development of these skills. Taking these courses out of order or postponing courses until the junior or senior year may seriously jeopardize the student's dgree or even prolong the term of study.

During the first semester of enrollment in the Department of Music each student is assigned an advisor who will counsel him during his first two years of study. This will normally be the faculty member who teaches the student's major applied instrument. This will assure an adherence to the prescribed curriculum and avoid confusion in planning the course of study.

Each student planning to earn a music degree will choose voice or an instrument which he will study each semester during the two years. Those who wish to have this instrument as their major and who qualify will register for the two hour course of instruction.

Private instruction in Voice, Piano, Organ, Synthesizer, Band and Orchestral Instruments is offered each semester for students majoring or minoring in Applied Music. Those students majoring in piano or organ are required to take Class Piano 115, 116, 215, 216. All music majors not using piano as applied music concentration are required to take piano courses for non-majors. **IN ADDITION, ALL MUSIC MAJORS AND MINORS MUST PARTICIPATE IN A MAJOR ENSEMBLE EACH SEMESTER THAT THEY ARE ENROLLED IN THE MUSIC DEPARTMENT.**

Music as a Minor

Students who elect music as a minor may complete their minimum two years requirements by selecting courses in music theory, music literature, music education, and applied music. If students plan to minor in music they should contact one of the music faculty members to outline their course of study to include the necessary music courses.

Financial Aid in Music

Financial aid is offered each year in band, choir, piano, organ, and instrumental music to students with both outstanding talent and financial need. Further information may be secured from the Chairman of the Music Department.

Music Course Numbering System

The first digit represents the level of the course: 1 for freshman level and 2 for sophomore level; the second digit represents semester hour value of the course; and the third digit differentiates courses within the department; and the fourth digit represents the semester of study.

APPLIED MUSIC

Course Numbering System for Applied Music

The four number system for applied music includes a key for each digit of the course number. First number indicates level, or year, for which the course is intended; the second number of hours of credit; the third, the field (see key below); and the fourth, the semester of study, as 1, 2, 3, 4.

Applied Music course MUS 2234 would be interpreted, thereafter as (1) a sophomore course, (2) giving two hours of credit, (3) in wind instruments, (4) and the student is in his fourth semester of study.

KEY — The third numer of the course number will be one of the following, and will indicate:

1. Piano
2. Voice
3. Wind Instruments
4. Strings
5. Organ
6. Choir
7. Percussion
8. Vocal Ensemble
9. Band
10. Stage Band

All Applied Music students must sign up for one hour per week of lab, studios or concert recitals.

MUSIC EDUCATION

FRESHMAN YEAR

1st Semester	Hours
MUS 131	3
MUS 111	1
MUS 125	2
MUS 134	3
Applied Major	2
Applied Minor	1
Ensemble	1
ENG 131	3
Physical Education	1
MUS 113 or 213	1
PSY 111	1
	19

2nd Semester	Hours
MUS 132	3
MUS 112	1
MUS 126	2
MUS 135	3
Applied Major	2
Applied Minor	1
Ensemble	1
ENG 132	3
Physical Education	1
MUS 114 or 214	1
*MUS 119	1
	19

SOPHOMORE YEAR

1st Semester	Hours
MUS 231	3
MUS 211	1
MUS 225	2
Applied Major	2
Applied Minor	1
Ensemble	1
ENG (sophomore)	3
HST 133	3
MUS 113 or 213	1
Physical Education	1
	18

2nd Semester	Hours
MUS 232	3
MUS 212	1
MUS 226	2
Applied Major	2
Applied Minor	1
Ensemble	1
ENG (sophomore)	3
HST 134	3
MUS 114 or 214	1
Physical Education	1
	18

*Required of Voice Majors only.

Consult the catalog of the four year institution to which you intend to transfer.

Philosophy and Objectives of the William Buchanan Associate Degree Nursing Program

The faculty believes that associate degree nursing education should be an integral part of a community college. We therefore accept the democratic philosophy and objectives of Texarkana College as it fulfills its mission to meet the diverse educational needs of the community. In keeping with the college, the associate degree nursing program prepares a graduate for immediate employment, provides courses that may be acceptable for transfer to other colleges should our graduates seek a higher degree and provides programs for development and/or expansion of skills.

We believe that man is a holistic being. He is unique and complex with biological, psychological, sociological and communication needs that vary throughout his life. The faculty believes that health is the right of every individual and that health services should be available to him through the cooperative efforts of a wide range of professions and disciplines, commonly called the health team. Further, inherent dignity of the individual gives one the right to actively participate with the health team in decisions which affect their state of health.

Nursing works collaboratively with other health disciplines for humane, individualistic care. The faculty believes that nursing is primarily assisting clients with those activities which contribute to health, or recovery of health, that one would perform unaided when there is the necessary capacity, will, or knowledge; while promoting independence of assistance as soon as possible. (International Council of Nurses.)

The knowledge base and practice of the nursing profession spans from the management of health monitoring, the management of common health problems of an acute or chronic nature, and the management of more complex, uncommon and rehabilitative problems. The scope of knowledge base and practice of the associate degree nurse is directed toward use of the nursing process to provide direct care to clients with common health problems. To do so, the nurse functions in the roles of a care provider, client teacher, and manager of client care. Upon graduation, the associate degree nurse is prepared for a beginning staff position under supervision in structured settings.

The faculty believes that learning is:

1. An additive process, progressing from simple to complex.
2. demonstrated by a change in behavior.
3. enhanced by a multi-sensory approach.
4. individualistic, according to life experiences and personal characteristics.

As the effort and energy put into learning is under personal control, learning is ultimately the responsibility of the student. The faculty shares the responsibility as we are accountable to direct curricular planning and to create the learning environment. Throughout the learning process, the faculty will encourage de-

velopment of a nursing conscience, based upon professional, moral, ethical and legal standards.

The faculty further believes that as needs of society change so do learning needs of the professionals who serve it. Continuing education after graduation is an inherent part of one's professional obligation for delivery of health care. In coordination with existing college continuing education services and with community groups, the nursing faculty responds to learning needs by identifying, planning, and otherwise insuring implementation of continuing education opportunities for health care personnel.

Program Objectives

The associate degree nurse upon graduation is prepared for employment in beginning staff nurse positions and is competent* as a facilitator of optimum health for persons with common health care problems (secondary care).

The following program objectives are the outcomes which have shaped this curriculum and the criteria for measurement of its success. In secondary settings for direct patient care, the graduate is able to:

1. utilize opportunities for personal and professional growth.
2. give individualized nursing care through assessment, planning, implementation, and evaluation.
3. communicate aspects of the nursing process to appropriate health care members.
4. create and maintain effective interpersonal relationships.
5. perform technical nursing skills based on scientific principles.
6. delegate nursing care to other nursing personnel according to their education and demonstrated abilities.
7. assist a person in seeking those community resources that can contribute to his well-being.
8. apply ethical and legal principles consistent with current standards of nursing practice.
9. participate with the health team in the exploration of ideas to change delivery of nursing care.
10. respect an individual's right to participate in decisions affecting his/her health.
11. meet a client's health learning needs using the nursing process.
12. maintain a safe environment.

*Competent is defined as the ability to do; proficient as the ability to do well; and mastery as the ability to do brilliantly at every occasion.

Associate Degree Nursing Program
Admission Requirements

Basic Admission Procedure

Candidates for the nursing program are expected to be proficient in communication skills, math, science and learning skills, as well as have physical characteristics to practice nuring. As such, to be considered, applicants must have on file by April 1:

1. The college Application for Admission, indicating nuring as a major.
2. A current physical examination report (on a "Nursing Physical Examination" form within 6 months of admission).
3. A personal guidance interview with a member of the counseling staff.
4. ACT english score of 16.
   In substitution:
   a. Standard score of 51 of the College Board Written English Expression Test, or
   b. Successfully complete ENG 031, 032, 131, or 132.
5. ACT Math score of 16.
   In substitution:
   a. 75% score on the Texarkana College Math Placement Test, or
   b. Successfully complete Math 031 or a higher level math course.
6. High school chemistry with grade of C or above (within 5 years).
   In substitution: CHM 143.
7. An official transcript from last school attended, or GED certificate. The high school senior may use a 7 semester transcript.
8. Cumulative grade point average of 2.0 or above for college work, if any.

NOTES: Contact the Counseling Office if:

1. You need test dates for the ACT, or College Board Written English Expression Test, or the Texarkana College Math Placement test.
2. For any reason, the above requirements cannot be completed by April 1.
3. Applicant does not completely meet the above requirements. A degree plan in readiness for consideration at a later time will be prepared.

Re-Entry Procedure

Candidates for re-admission to the nursing program, in advance of return, are expected to manage those circumstances that prevented previous success. As such, the applicants for re-admission must by the beginning of the semester prior to the one for re-entry:

1. Complete steps 1-2 of Basic Admission requirments.
2. Submit the Application for Re-Entry to the Health Occupations Division at the beginning of the semester prior to the one the student wishes to enter.
3. Have a personal conference with the Chairman of the Health Occupations Division regarding goals and plans.

NOTES:

Re-admission into the program will be on a space available basis only. A student who leaves the program for any reason will be permitted one other opportunity to enroll. Under extenuating circumstances, the student may petition the Admission Committee.

Transfer Procedures

Candidates for transfer to the nursing program must:

1. Complete the Basic Admission process.
2. Have a personal conference with the Chairman of the Health Occupations Division regarding goals and plans.
3. Document previous courses by providing:
   a. an official transcript
   b. nursing courses syllabi or outline to enable the Admissions Committee to determine placement
   c. written permission for letter of reference from previous school of nursing.

Transition Program

Candidates must be a licensed vocational nurse or recently graduated from a vocational nursing program and eligible to take the licensure examination. Former armed services medical corpsmen and transfer students may also be eligible. To be considered, the appliant must by March 15:

1. Complete the Basic Admission process.
2. Inform counselor of interest in the "Transition Program" at the personal interview.

3. Hold current licensure as an LVN or LPN, if applicable.

4. Pass the Pre-Entrance Nursing Examination with a score of 74 or higher.

NOTES:

1. For pre-entrance test dates, contact the counseling office.

2. If not successful with the pre-entrance test, applicant is a candidate for the basic program.

3. Students who are not successful with the "Transition" courses or who withdraw while failing may not repeat or challenge these courses. They are eligible for entrace in the basic program.

Selection of applicants by priority:

Priority 1 — 3.0 to 4.0 GPA and 9+ of required credits.

Priority 2 — 2.5 to 2.99 GPA and 6+ of required credits;

Transition applicant;

7 semester high school senior with ACT of 16 in English and Math.

Priority 3 — (Alternate) 2.0 to 2.5 GPA with any college credits;

High GPA with 0-3 of required credits;

late applicants

If the above "Alternate" wishes to be reconsidered, the request must be made immediately upon achieving the conditions of 1 and 2 (i.e., end of 1st summer, 2nd summer, fall or spring).

ADN TRANSITION PROGRAM

Degree Requirements:

1. A minimum of 55 semester hours of credit with 2.0 GPA.
2. A grade of "C" or above in science and nursing courses.

NOTE: Courses must be in this sequence unless permission to change by Division Chairman.

FRESHMAN YEAR

Fall Semester	Spring Semester
Open	†NUR 121
	NUR 142
	***BIO 145
	*PSY 231
	ENG 131
	††BCLS

SOPHOMORE YEAR

Summer Session (1st)	Summer Session (2nd)
***BIO 242	Open
PSY 235	

Fall Semester	Spring Semester
NUR 253	NUR 255
NUR 254	NUR 256
***BIO 146	NUR 217
SOC or PSY Elective	NUR 218
	SPE 131 or 133

*Co-requisite to nursing courses taught this term, or may be taken in advance of nursing taught this term.
**Science courses taken more than five (5) years ago must be repeated.
†Credit for NUR 181 upon successful completion.
††BCLS (non-credit) prerequisite to NUR 253, 254.

ADN NURSING-BASIC PROGRAM

Degree Requirements:

1. A minimum of 66 semester hours of credit with 2.0 GPA.
2. A grade of "C" or above in science and nursing courses.

NOTE: Courses must be in this sequence unless permission to change by Division Chairman.

FRESHMAN YEAR

Summer Session (1st)
*NUR 111
ENG 131
*BCLS (non-credit)

Summer Session (2nd)
Open

Fall Semester
NUR 181
+ **BIO 145
**PSY 231

Spring Semester
NUR 141
NUR 142
+ **BIO 146
**PSY 235

SOPHOMORE YEAR

Summer Session (1st)
SPE 131 or 133
+ **BIO 242

Summer Session (2nd)
Open

Fall Semester
NUR 253
NUR 254
SOC or PSY Elective (3 hrs.)

Spring Semester
NUR 255
NUR 256
NUR 217
NUR 218

**Co-requisite to nursing courses taught this term, or may be taken in advance of nursing taught this term.
+Credit will not be granted for courses taken more than five (5) years ago
*Prerequisite to NUR 181.

VOCATIONAL NURSING PROGRAM

In cooperation with the Texas Education Agency, the State Board of Vocational Nurse Examiners, and affiliated hospitals, Texarkana College offers a prescribed course in vocational nursing. The program was established in 1956.

Graduates are eligible to apply to take the examination for state licensure, and upon passing the examination, are authorized to practice as licensed vocational nurses.

Philosophy and Objectives of the Vocational Nursing Program

The philosophy of the Department of Vocational Nursing is consistent with the philosophy and objectives of Texarkana College and with the values and ideals of the community at large.

Communities are composed of highly complex individuals who are at maximum functioning when biological, social, psychological, cultural, and spiritual needs are met. Needs vary throughout one's life. When needs are unmet, suddenly as in an accident or over time, health is threatened and illness can occur.

Nursing is both an applied science and an art. As an applied science, nursing uses scientific principles to formulate goal-oriented interventions to assist an individual who lacks the physical or psychological capacity to meet his/her own basic human needs. Nursing is an art in that the intervention includes a compassionate concern which compels action until a creative solution is found. The vocational nurse performs these functions under the direction of a registered nurse or physician.

The vocational nursing curriculum provides a foundation of scientific knowledge and skills which the graduate uses for practice. The knowledge base requires use of the nursing process with the client when common diseases are present.

The faculty believes that learning is demonstrated by a change in behavior. It progresses from the simple to the complex, and is promoted by a multi-sensory approach. Learning is the responsibility of the student in that to achieve it requires individual effort and energy. The responsibility of the faculty is to manage an environment where learning can occur and to direct the learning procedure.

Upon graduation, in care of the person who is ill and unable to provide for his/her own basic needs, the vocational nurse, under supervision of an RN or physician, has the ability to:

1. use the nursing process and accepted scientific principles to give direct care.
2. practice within legal and ethical nursing standards.
3. observe and record pertinent nursing information.
4. use psychosocial principles to demonstrate effective nursing attitudes and interpersonal relationships with patients and others.
5. plan individual care with other health care team members.

6. acknowledge the value of continuance of education.

7. perform common nursing and medical intervention according to the vocational nurse level of practice.

8. provide care with comfort, dignity, and caring.

ADMISSION REQUIREMENTS

1. Successful completion of the pre-entrance aptitude test. Applicants must arrange by contacting the Counseling Center, Student Center Building Texarkana College. Come by, call 838-4541 ext. 249, or write.

2. Completion of the application papers and physical examination form. Applicant obtains these forms from the Nursing Department or Admissions Office, Texarkana College. All papers are to be returned to the Admissions Office.

3. A high school transcript or your scores on the General Education Development Test (G.E.D.). College transcripts are acceptable.

4. A guidance interview with a member of the nursing faculty or counselors. For an appointment, please call 838-4541 ext. 249, or write Texarkana College, Counseling Center.

5. To transfer from ADN or other VN programs: successful previous nursing courses will be individually evaluated.
   a. Transcript, course descriptions and reference from the last school are required.
   b. Previous pre-tests may be accepted in substitution of the PSB.
   c. Follow all other steps above for consideration.

6. Re-entry policy — A student who fails or withdraws will be permitted one other opportunity to enroll. All re-entering or transfer nursing students must be interviewed by the Chairman of the Health Occupations Division or the instructor-coordinator.

7. Two (2) classes are admitted each year, usually near August 30 and February 15. **PLEASE APPLY NO LATER THAN 30 DAYS BEFORE THESE DATES.**

8. Students must achieve at least a grade of "C" in each course. Those failing to meet the grade requirement cannot continue in the program.

VOCATIONAL NURSING

NOTE: Order of arrangement of courses is subject to change.

COURSE	HOURS
NUV 130	20
NUV 131	10
NUV 132	16
NUV 133	378
NUV 134	50
NUV 135	26
NUV 136	50
*CPR (non-credit)	15
*NUV 137	40
NUV 231	168
NUV 232	320
NUV233	360
*NUV 234	10
*NUV 235	40

*Courses not applicable for V.A. minimums.

OFFICE OCCUPATIONS

		Clock Hours
First Quarter		
OFO 131	Elementary Typewriting	120
OFO 137	Office Practice I	120
GRC 131	Related Math	60
GRC 132	Related Communications	60
Second Quarter		
OFO 130	Professional Development	60
OFO 132	Intermediate Typewriting	120
OFO 134	Word Processing I	60
OFO 139	Graphic Arts I	60
GRC 232	Related Communications	60
Third Quarter		
OFO 231	Advanced Typewriting	60
OFO 232	Word Processing II	60
OFO 233	Elementary Accounting	120
GRC 133	Shop Management and Supervision	60
OFO 138	Office Machines	60
Fourth Quarter		
OFO 261	Selected Studies	360
		1,440

ORNAMENTAL HORTICULTURE*

	1st Quarter	
OHC 161	Ornamental Horticulture I	**360 clock hours**
	Orientation	40 hrs.
	Landscape Plant Materials	135 hrs.
	Horticulture Chemicals	65 hrs.
	Related Communications	60 hrs.
	Related Mathematics	60 hrs.
	2nd Quarter	
OHC 162	Ornamental Horticulture II	**360 clock hours**
	General Horticulture	125 hrs.
	Herbaceous and Tropical Plants	100 hrs.
	Landscape Maintenance	90 hrs.
	Small Business Management	45 hrs.
	3rd Quarter	
OHC 163	Ornamental Horticulture III	**360 clock hours**
	Greenhouse Horticulture	60 hrs.
	Nursery Operation	60 hrs.
	Landscape Fundamentals & Design	180 hrs.
	Greenhouse Crop Production	60 hrs.
	4th Quarter	
OHC 164	Ornamental Horticulture IV	**360 clock hours**
	Ornamental Crop Production	90 hrs.
	Landscape Management	180 hrs.
	Horticultural Pest Control	45 hrs.
	Salesmanship	45 hrs.

*FCI only.

PHYSICAL EDUCATION

This department provides opportunities for every student to acquire skill and knowledge in many sports and recreational activities so that each may prepare himself for leisure time enjoyment. Emphasis is placed on individual and recreational activities.

The Intramural Sports Proram at Texarkana College is designed to give all students an opportunity to participate in a variety of recreational activities.

Students are urged to follow the degree plan of the college from which they plan to earn a Bachelor's Degree.

FRESHMAN YEAR

1st Semester	Hours
PSY 111	1
ENG 131	3
HST 131 or 133	3
MTH 131	3
BIO 141	4
SPE 131	3
Physical Education	1
	18

2nd Semester	Hours
ENG 132	3
HST 134 or 132	3
BIO 142	4
PHE 132	3
PHE 131	3
Physical Education	1
	17

SOPHOMORE YEAR

1st Semester	Hours
ENG (sophomore)	3
BIO 145	4
PSI 231	3
PSY 231	3
Elective	3
	16

2nd Semester	Hours
Elective	3
SOC 131	3
PSI 232	3
BIO 146	4
Elective	3
	16

PHYSICAL FITNESS TECHNOLOGY

Physical Fitness Technology is a one year, semester hour, certificate program.

1st Semester	Hours
BIO 141	4
PHE 121	2
PFT 131	3
PFT 132	3
PFT 133	3
	15

2nd Semester	Hours
BIO 142	4
PHE 111L/112L	2
HEC 234	3
PFT 161	6
	15

PHYSICS

FRESHMAN YEAR

1st Semester	Hours
CHM 141	4
ENG 131	3
*MTH 136	3
*MTH 231	3
HST 133	3
PSY 111	1
PHE	1
	18

2nd Semester	Hours
CHM 142	4
ENG 132	3
MTH 232	3
HST 134	3
CSI 231	3
PHE	1
	17

SOPHOMORE YEAR

1st Semester	Hours
PHY 243	4
MTH 234	3
PSI 231	3
ENG (Sophomore)	3
Foreign Language	3
	16

2nd Semester	Hours
PHY 244	4
MTH 233	3
PSI 232	3
Elective	3
Foreign Language	3
	16

MTH 234 (Differential Equations) is recommended during the summer following the sophomore year and prior to transferring to a senior college in the fall. Consult the catalog of the senior institution to which you plan to transfer.

*A student should have an adequate background in mathematics including two years of high school algebra and one course in trigonometry before taking MTH 136 and MTH 231. Otherwise it is recommended the student take MTH 131 and MTH 132 prior to enrolling in MTH 136 and MTH 231.

PRE-DENTISTRY

FRESHMAN YEAR

1st Semester	Hours
CHM 141	4
BIO 141	4
*MTH 131	3
ENG 131	3
HST 133	3
Physical Education	1
PSY 111	1
	19

2nd Semester	Hours
CHM 142	4
BIO 142	4
*MTH 132	3
ENG 132	3
HST 134	3
Physical Education	1
	18

SOPHOMORE YEAR

1st Semester	Hours
PHY 141	4
CHM 241	4
BIO 242	4
PSI 231	3
ENG (sophomore)	3
	18

2nd Semester	Hours
PHY 142	4
CHM 242	4
PSY 231	3
*MTH 231	3
PSI 232	3
	17

* Consult the catalog of the college or university to which you plan to transfer.

PRE-MEDICINE

FRESHMAN YEAR

1st Semester	Hours
CHM 141	4
BIO 141	4
MTH 136	3
ENG 131	3
Physical Education	1
PSY 111	1
HST 133	3
	19

2nd Semester	Hours
CHM 142	4
BIO 142	4
MTH 231	3
ENG 132	3
Physical Education	1
HST 134	3
	18

SOPHOMORE YEAR

1st Semester	Hours
CHM 241	4
PHY 141	4
PSI 231	3
BIO 242	4
*Elective	3
	18

2nd Semester	Hours
CHM 242	4
PHY 142	4
ENG (sophomore)	3
PSI 232	3
Elective	3-4
	17-18

Consult the catalog of the four year institution to which you intend to transfer.

* A foreign language is suggested.

PRE-VETERINARY MEDICINE

FRESHMAN YEAR

1st Semester	Hours
AGR 141	4
BIO 143	4
CHM 141	4
ENG 131	3
*MTH 136	3
Physical Education	1
PSY 111	1
	20

2nd Semester	Hours
BIO 144	4
CHM 142	4
Elective	3
ENG 132	3
*MTH 231	3
Physical Education	1
	18

SOPHOMORE YEAR

1st Semester	Hours
CHM 241	4
ENG (sophomore)	3
HST 133	3
PHY 141	4
PSI 231	3
	17

2nd Semester	Hours
CHM 242	4
PSI 232	3
HST 134	3
Elective	3
PHY 142	4
	17

*Students who do not have a strong math background should enroll in Math 131 and 132.

Consult the catalog of the four year institution to which you plan to transfer.

PRINTING

The Printing program requires four quarters or twelve months for completion. The courses are one quarter in length and all are offered each quarter. Each student will also be required to attend classes in Related Communications, Related Mathematics, and Shop Management (60 hours per quarter) during his/her initial quarter of enrollment. The courses in Printing are:

1st Quarter

PTG 161 Introduction to Printing.....360 clock hours

2nd Quarter

PTG 162 Fundamentals of Printing I.....360 clock hours

3rd Quarter

PTG 163 Fundamentals of Printing II.....360 clock hours

4th Quarter

PTG 164 Printing Internship.....360 clock hours

RADIO/TELEVISION PRODUCTION TECHNOLOGY

(Nine Month Certificate Program)

The Radio/Television program at Texarkana College is designed to train a student for radio and television announcing. Emphasis is placed on voice control, proper pronunciation of words and diction. As a clock hour program, the students will be provided hands-on experience that is under supervision of an instructor.

1st Quarter

RTV 161 Introduction to Radio/Television Production ..... 360 clock hours

2nd Quarter

RTV 162 Station Management and Operation..... 360 clock hours

3rd Quarter

RTV 163 Radio/Television Internship ..... 360 clock hours

REAL ESTATE

(Associate Degree in Applied Science)

The Real Estate Program is designed to develop a fundamental background in skills and knowledge for immediate practice in the field of Real Estate. Formal classroom study is combined with case studies and actual work experience in order to provide the skills necessary for a career in Real Estate. The curriculum is a terminal two year college program leading to an Associate in Applied Science Degree in Real Estate and is designed to meet licensure requirement for the state of Texas.

REAL ESTATE

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
MTH 131	3
RLE 131	3
ACC 231	3
Approved Elective	3
	15

2nd Semester	Hours
ENG 132	3
BUA 131	3
*RLE 132	3
*RLE 133	3
ACC 232	3
Approved Elective	3
	18

SOPHOMORE YEAR

1st Semester	Hours
*RLE 135	3
*RLE 134	3
ECO 231	3
SPE 131	3
Approved Elective	3
	15

2nd Semester	Hours
*RLE 232	3
*RLE 233	3
PSI 231	3
PSY 231 or 232	3
Approved Elective	3
	15

APPROVED ELECTIVES

ACC 232	PSI 232	BUA 233
ECO 232	MGT 235	MTH 133
BUA 235	RLE 137	SOC 131
RLE 136	DPM 140	BUA 234

*Prerequisite RLE 131

Consult the catalog of the four year institution to which you intend to transfer.

SECRETARIAL SCIENCE

(One Year Certificate)

1st Semester	Hours
ENG 031 or 131	3
BUA 130 or ACC 131	3
SEC 131 or 132	3
SEC 134 or 135 or DAP 130	3
SEC 138	3
PSY 111	1
Physical Education	1
	17

2nd Semester	Hours
ENG 131 or 132	3
SEC 237	3
SEC 135 or 139	3
SEC 132 or 233	3
SEC 133	3
Physical Education	1
	16

Eighteen hours of SEC meet certificate requirements.

SECRETARIAL SCIENCE

(Associate Degree)

FRESHMAN YEAR

1st Semester	Hours
ENG 131	3
*SEC 131	3
*SEC 134	3
SEC 133	3
HST 133	3
Physical Education	1
PSY 111	1
	17

2nd Semester	Hours
ENG 132	3
SEC 132	3
SEC 135	3
SEC 138	3
HST 134	3
Physical Education	1
	16

SOPHOMORE YEAR

1st Semester	Hours
ENG (Sophomore)	3
SEC 233	3
SEC 139 or DAP 131	3
ACC 231	3
PSI 231	3
	15

2nd Semester	Hours
ELective	3
PSI 232	3
SEC 237	3
ACC 232	3
Elective	3
	15

*Students who have sufficient background in typing and shorthand may begin with advanced courses.

18 hours of SEC meets graduation requirements.

Consult the catalog of the four year institution to which you intend to transfer.

SMALL ENGINE REPAIR

The Small Engine Repair program requires three quarters or nine months for completion. The courses are one quarter in length and all are offered each quarter. The instruction is individualized and students in the same shop study different topics. Each course contains 360 hours of instruction with the ratio of lecture to laboratory adjusted as needed. Each student will be required to attend and successfully complete classes in related mathematics, communications, and shop management (60 hours per quarter)* during each quarter of enrollment. The student who is capable may test out of studies in some of the related areas. The courses in small engine repair are:

1st Quarter

SER 161 Basic Shop Practices ..... 360 clock hours

2nd Quarter

SER 162 Small Engine Applications ..... 360 clock hours

3rd Quarter

SER 163 Commercial Applications for Small Engines ..... 360 clock hours

*Students in Small Engine Repair will take Related Mathematics, Related Communications, and Small Business Management.

WELDING

The welding course requires six quarters or eighteen months for completion. The courses are one quarter in length and all are offered each quarter. The instruction is individualized and students in the same shop study different topics. Each course contains 360 hours of instruction with the ratio of lecture to laboratory adjusted as needed. Each student will be required to attend and successfully complete classes in related mathematics, communications, and small business management (60 hours per quarter)* during each quarter of enrollment. The student who is capable may test out of studies in some of the related areas. The courses in welding are:

1st Quarter

WEL 161 Basic Acetylene Cutting & Arc Welding.....360 clock hours

2nd Quarter

WEL 162 Electric Arc Welding.....360 clock hours

3rd Quarter

WEL 163 Electric Arc Welding.....360 clock hours

4th Quarter

WEL 164 Bell-Hole & Horizontal Pipe .....360 clock hours

5th Quarter

WEL 165 Special Welding.....360 clock hours

6th Quarter

WEL 166 Advanced Welding .....360 clock hours

*Students in welding will take Related Communications, Related Mathematics (two quarters), Small Business Management, and Applied Drafting.

COURSE DESCRIPTIONS

(4,3,3)
Lab
Lecture
Credit

Accounting

ACC 131 **Elementary Accounting** (3,3,0). First Course. An introduction to bookkeeping and accounting in which the principles of double-entry bookkeeping are studied. Emphasis is given to each phase of the accounting cycle as the principles are applied to the single proprietorship type of business organization.

ACC 231 **Principles of Accounting I** (3,3,0). An introductory course designed to furnish a general knowledge of accounting principles and procedures. Examination of present accounting theory and practices with applications to sole proprietorships, partnerships, corporations, and analysis and use of financial statements.

ACC 232 **Principles of Accounting II** (3,3,0). Continuation of ACC 231. Application of budgeting and standard cost accounting systems. Accounting concepts introduced for developing budget performance reports and other cost control reporting. Prerequisite: ACC 231.

Agriculture

AGR 111 **The Agricultural Industry** (1,1,0). A survey of modern agricultural industry in its unique relationship to human and natural resources. Contemporary agricultural problems and issues. Career opportunities and academic areas of study in agriculture.

AGR 131 **Introduction to Agricultural Economics** (3,3,0). A study of basic economic concepts and principles and their application to agricultural production and marketing.

AGR 141 **Introductory Animal Science** (4,3,3). An introductory course stressing the importance of the livestock and meat industries. Application of the scientific principles of genetics, nutrition, and physiology in the selection, breeding, feeding, management, and marketing of livestock species.

AGR 143 **Food and Fiber Crops** (4,3,3) A study of the basic principles of plant science including structure, development, nutrition, breeding and environmental factors influencing the growth of crop plants. Technological developments in the production and management of food and fiber crops.

AGR 231 **Conservation and Management of Wildlife and Natural Resources** (3,3,0) Ecological principles underlying the conservation and management of natural resources with major emphasis on wildlife. Topics include basic concepts of ecology including ecosystem organization, population dynamics, habitat requirements of different species, and management techniques required to maintain healthy populations.

AGR 232 **Dairy Science** (3,3,2). A survey of the dairy industry, dairy breeds, standards for selection and culling, feeding, management, and health maintenance. Food value of milk, tests for composition and quality, utilization and processing of market milk and dairy products.

AGR 234 **Livestock Evaluation** (3,2,3). Selection, evaluation, and classification of breeding and market animals.

AGR 235 **Avian Science** (3,3,2). A survey of the poultry industry. Application of scientific principles and practices in the production and marketing of poultry and poultry products including specialized areas of production.

AGR 236 **Principles of Horticulture** (3,3,2). The study of structure, growth, development, maintenance, and use of horticultural plants. Propagation principles, greenhouse production, and propagation techniques and practices.

Agri-Business Management

ABM 131 **Farm Shop** (3,2,3). Basic principles of forging, oxyacetylene and arc welding, soldering, sheet metal, tool sharpening, concrete construction, farm carpentry, and selection and care of tools; basic principles of electricity and their application to the farm setting.

ABM 132 **Livestock Selection and Evaluation** (3,2,3). Comparative evaluation of breeding and market animals. Live animal evaluation of beef and dairy cattle, swine, and horses. Use of pedigree records and production tests data in selection.

ABM 142 **Principles of Farm and Ranch Management** (4,3,2). A study of problems associated with the organization and operation of farm business. Application of economic and business principles in decision making and problem solving for efficient business operations.

ABM 143 **Farm Power and Machinery** (4,3,3). Operation, adjusting, and servicing of farm engines and tractors. Adaptability, selection, economic utilization, construction, operation and adjustment of the principle tillage, planting, cultivating, harvesting, and feed processing machines.

ABM 144 **Agricultural Chemicals** (4,3,2). A survey of the importance and use of agricultural chemicals for farm and non-farm use. Approved rates of application, tolerance, permissible residue limits, environmental effects, proper equipment and calibrations.

ABM 231 **Commercial Vegetable Production** (3,3,2). A study of principles and practices applicable to the production and marketing of commercial vegetable crops. Variety adaptation, nutrient requirments, propagation techniques, weed, insect and disease control; harvesting, storage and marketing.

ABM 232 **Farm Forestry** (3,2,3). Principles and practices of forestry with special reference to the farm unit. Emphasis will be placed on growth, protection, yield and management of farm timber stands.

ABM 235 **Cooperative Work Experience** (3,1,20). Students will work on a farm or ranch or agricultural related business in the local area on a co-op arrangement between the college and the business. Agri-businesses will be selected to correspond to the student's major interests. The student on-the-job training will be supervised by the instructors as well as their immediate supervisor at each farm business. Written reports and oral consultations on problems encountered will be made.

ABM 236 **Marketing Agricultural Products** (3,3,1). A course designed to give basic knowledge of marketing principles applicable to agricultural products; market grades, trends, and channels for livestock and crop commodities. Emphasis on futures trading.

ABM 241 **Pasture Management** (4,3,2). Adaptation, production and management of permanent and temporary pastures. Includes establishment, fertilization, weed control and grazing systems. Comparison of adapted forage species.

ABM 242 **Animal Health** (4,3,2). The broad field of animal health will be treated under such topics as internal and external parasites, principal diseases of livestock, their importance, identification and control, handling diseased animals, working with the veterinarian in animal health management.

ABM 243 **Principles of Animal Feeding** (4,3,2). Digestion and use of feeds for maintenance and production; nutritive requirements of livestock, nutritive values of different feedstuffs, selection based on composition and costs, ration formulation, processing and handling; supplemental feeding and possible limiting factors in feed eficiency.

ABM 245 **Beef Production** (4,3,2). Principles involved in breeding, feeding, management, disease and parasite control of beef cattle. Trends and advancements in the beef industry.

ABM 246 **Horse Production** (4,3,2). Breeding, feeding, management and training of stock and pleasure horses; growing and developing foals, anatomy, unsoundnesses, parasites and disease; stables and equipment; shoeing; fitting for show and sale.

ABM 247 **Soil and Fertilizer Technology** (4,3,2). A study of soil characteristics, properties, development and soil-plant relationships; soil and water conservation, uses and application of commercial fertilizers and soil amendments to maintain soil fertility and proper pH.

ABM 249 **Meat Processing and Evaluation** (4,3,2). Slaughtering, processing and preservation methods of the meat packing industry. Wholesale and retail cuts of meat, sanitation practices and grading.

Air Conditioning and Refrigeration

ACR 161 **Basic Electricity** (6,5,25). Ohm's law, basic wiring of switches, relays; principles of electric motors, single phase and three phase; principles of transformers, capacitors and inductors; reading and drawing electric wiring diagrams; study of magnetism and trouble shooting practices.

ACR 162 **Basic Refrigeration and Air Conditioning Theory** (6,5,25). Instruction in copper tubing handling, soldering, brazing, bending, flaring, swagging; duct systems and air flow; compressor construction, dismantling, repair; introduction to arc and acetylene welding: basic installation and service on simple domestic refrigerators; shop safety.

ACR 163 **Heating** (6,5,25). Electric and gas fired forced air heating systems; hot water heating systems; boilers, boiler controls and piping; heating layout procedures, contracting; service practices; business practices and ethics.

ACR 164 **Residential Air Conditioning** (6,5,25). Programmed instruction in window units; domestic air conditioning systems; domestic duct work systems; air balancing, automobile air conditioning; domestic air conditioning control systems; use of psychrometric chart; psychomoetric problems in comfort cooling.

ACR 165 **Commercial and Industrial Air Conditioning I** (6,5,25). Programmed instruction in direct expansion air conditioners; large duct systems; condensing units, air handlers, water chillers; piping systems; capacity control; air distribution, and cooling systems, pneumatic control systems; electronic control systems; installation, service, and maintenance, absorptions systems; heat pumps, electronic air filters; fans and blowers; noise control.

ACR 166 **Air Conditioning and Refrigeration Internship** (6,5,25). This course is designed to place the student in advanced technological refrigeration and air conditioning settings by requiring that he/she do an internship in the work place rather than lab projects. The air conditioning instructors will place and supervise the students based on specialization and interest in live situations as a helper or intern to become more familiar with a variety of units used in industry.

Anthropology

ANT 131 **Introduction to Anthropology** (3,3,0). Fields, theories, and methods of anthropology; man's biological and cultural development; survey of technical, economic, political, social, religious, and linguistic systems with an emphasis on historical impact.

Art

ART 131 **Basic Drawing** (3,3,3). A fundamental course investigating a variety of media, techniques, and subjects, exploring perceptual and descriptive possibilities. This course includes the careful study of visual perception with an emphasis on perspective.

ART 132 **Drawing** (3,3,3). Expansion of Drawing I stressing the expression and conceptual aspects of drawing including the human figure. The solving of total compositional problems through the drawing mediums.

ART 133 **Design I** (3,3,0). Emphasis upon two-dimensional design; includes the fundamentals of line, color, form, texture, shape, space, and arrangement. A foundations course structured to solving compositional problems through various mediums such as drawing, painting, and forms of sculpting. Emphasis is placed on exhibitable final products.

ART 134 **Design II** (3,3,0). A continuation of ART 133 with emphasis on three dimensional concept. Solving of compositional problems. Study of inter-relational ideas between sculpture, drawing, printmaking, and painting. Prerequisite: ART 133.

ART 135A **Pubic School Art** (3,3,0). The teaching of Public School Art for secondary and elementary grades. Training in use of various media such as water colors, tempera, charcoal and acrylic.

ART 135B **Pubic School Art** (3,3,0). This course is designed for elementary and secondary teachers and offers projects for those interested in art as a teaching field. Emphasis on elementary design, color, 3-dimensional construction, fiber art and lettering and poster boards.

ART 137 **Art Appreciation** (3,3,0). This is a course on the appreciation of art. The content is based on looking at works of art. The objective of this is to broaden and enlighten the cultural background of the student. Art Appreciation is required for all art majors.

ART 138 **Art History Survey I** (3,3,0). A survey of painting, sculpture, architecture, and minor arts from prehistoric times to the 14th century.

ART 230 **Drawing III** (3,3,3). A life drawing course emphasizing structure and action of the human figure by recording through various graphic techniques. Prerequisite: ART 131 and ART 132.

ART 231A **Sculpture I** (3,3,3). An exploration of various sculptural approaches in a variety of media including additive and subtractive techniques. Prerequisite: Sophomore standing or instructor's approval.

ART 231B **Sculpture II** (3,3,3) A continuation of ART 231, sculpture, with more emphasis on individualized work. The student can select for himself the type of sculpture he wishes to engage in — additive and subtractive.

ART 232 **Printmaking I** (3,3,3). An introduction to the basic printmaking processes and visual organization through the medium of printmaking. Both cameo and intaglio techniques are used.

ART 233A **Elementary Painting** (3,3,3). A disciplined study of the use of oil. Color mixing, methods of application on canvas and panels using genre, portraits, still life, and landscape subjects. Exploring the potentials of painting media with emphasis on color and composition.

ART 233B **Elementary Painting** (3,3,3). Continuation of ART 233A. Advanced techniques in oil, figure and character studies.

ART 234A **Water Color I** (3,3,3). This course provides experience with water color painting using wet and dry paper. Emphasis on aesthetics and individual exploration.

ART 234B **Water color II** (3,3,3). Continuation of Water Color I. Emphasis is placed on exhibitable final products.

ART 235 **Weaving I** (3,3,3). Weaving on several types of hand looms. A study of color, texture, and design in basic two-harness techniques, and experimental use of various fibers.

ART 236 **Weaving II** (3,3,3). With an introduction of four-harness techniques.

ART 237 **Drawing IV** (3,3,3). A continuation of Drawing III with emphasis on individual expression. Prerequisite: ART 230.

ART 238 **Ceramics** (3,3,3). Creating pottery forms by use of the slab, pinch, coil, and throwing methods; firing and glazing.

ART 239 **Ceramics** (3,3,3). Continuation of Ceramics 238 with original glaze experiments in clay.

Astronomy

AST 141 **Introduction to Astronomy** (4,3,3). A journey through the Solar System. Begin with the history of Astronomy and cover such topics as the Sun, Earth, Moon, Planets, Comets, Meteors, and Astroids. Recent developments and discoveries are presented. Star maps, telescopes, and sky observations are stressed in lab.

AST 142 **Introduction to Astronomy** (4,3,3). A journey through the entire Universe. Begin with the sun and study the life and death of stars. Included are Nebulae, Pulsars, Quasars, White Dwarfs, and Black Holes. The beginnings of the Universe and UFO's are touched upon.

Auto Body Repair Mechanics

ABR 161 **Basic Body Shop** (6,5,25). A study of shop safety, shop practices, use of the basic hand and power tools, and techniques of bending, shrinking, cutting and welding metals.

ABR 162 **Minor Body Repair** (6,5,25) A study of the principles and service techniques for doors, locks, metal trim, and automotive glass. Introduction to techniques for use of plastics.

ABR 163 **Major Body Repair** (6,5,25). A study of principles and techniques for repair of major damage to fenders, panels, quarter panels, hoods, trunk lids and bumpers.

ABR 164 **Automotive Body Refinishing** (6,5,25)A study of principles and techniques used in preparation of metal surfaces for painting and the painting of metal surfaces. Included is a study of paint composition and primers.

ABR 165 **Advanced Body Shop** (6,5,25). A study of the repair of automobiles which have undergone major damage. Included is a study of the use of commercial and fast production techniques.

Automotive Mechanics

AUM 161 **Engine Maintenance and Overhaul** (6,5,25). The study of the design, construction, disassembly and overhaul of internal combustion engines.

AUM 162 **Engine Systems and Tune-Up Practices** (6,5,25). A study of engine cooling systems, fuel systems, ignition system, emission and exhaust systems. Included will be tine-up, diagnosis and auto electrical fundamentals.

AUM 163 **Chassis and Suspension Maintenance** (6,5,25). A study of chassis and suspension maintenance, steering systems, and front end alignment.

AUM 164 **Drum and Disc Brake Systems** (6,5,25). A study of the theory of operation and service of drum and disc brakes.

AUM 165 **Electrical Systems and Air Conditioning** (6,5,25). A study of electrical and air conditioning theory and the proper use of testing equipment in diagnosing and correcting malfunctions in alternators, generators, starters, switches, compressors, and controls.

AUM 166 **Power Train Maintenance and Assembly of Standard and Automatic Transmissions** (6,5,25). A study of the operating principles and service of transmissions, including the assembly of standard transmissions, clutches, drive lines, differentials, and axles.

Aviation Technology

AIR 114 **Commercial Flight II** (1,.4,.8). This course includes Stage II, Lessons 19 through 23 of the flight training syllabus. The course provides 26.1 hours of instruction, 13.0 dual and 13.1 oral. Included in this stage is procedures and airport operations. At the completion of this course you may elect to take the Private-Multi-Engine flight test. Prerequisite: Students who are interested only in obtaining their multi-engine rating or to get checked out in a high performance aircraft need only to have the permission of the chief flight instructor. Associate Degree and Professional Pilot Course students must have AIR 123 or the equivalent. Corequisite: AIR 135.

AIR 123 **Commercial Flight I** (2,.6,2.4). This is the first of six (6) courses of flight training for the Federal Aviation Administration Commercial Pilot Certificate with Instrument and Multi-engine Commercial ratings. A total of 50.1 hours of instruction is provided, including 16.2 dual, 21.0 solo, and 12.9 hours of oral instruction and briefings. Areas of which includes basic maneuvers by visual aid and instrument reference, precision-commercial maneuvers, and a final stage check. Prerequisite: AIR 141. Co-Requisite: AIR 135.

AIR 141 **Primary Flight** (4,1.4,3). A specific introduction to flight through actual flying experience in modern, safe, fully equipped aircraft. This course is designed for those who wish to qualify for an FAA Private Pilot Certificate. This course qualifies a student for solo flight, solo cross-country flights, night flying, maximum performance maneuvers and preparation for the FAA Private Pilot Flight Test. The course includes 28 hours of dual flight instruction, 20 hours of solo flight and 21.6 hours of oral instruction and briefings. Co-requisite: AIR 133.

AIR 216 **Instrument Flight Instructor** (1,.3,1.0). A course designed to develop a student instructor's aeronautical skill and experience necessary to meet the requirments for a flight instructor certificate with instrument-airplane ratings as specified in Parts 61 and 141 of the Federal Air Regulations. The course includes 33.2 hours of instruction. This includes 20 hours of flight instruction, 10 of which is given by the student instructor to another student to gain actual experience. This is done under the direct supervision of an Instrument Flight Instructor. Stage I & II, Lessons 1-15, of the Flight Instructor Instrument, Airplane Flight Training Syllabus. Prerequisite: Permission of Chief Flight Instructor

AIR 217 **Instrument Flight II** (1,.4,1.4). Stage III includes Lessons 33 through 37, which provides 32.6 hours of instruction, 12.2 dual, 9.8 solo, and 10.6 oral. Areas of instruction include: Holding, VOR, ADF, and ILS approaches and a phase check. Prerequisite: Students who are interested in obtaining the Instrument Rating must be a Private Pilot or better with at least 140 hours total time. Associate Degree and Professional Pilot Course students must have AIR 226 or equivalent. Co-requisite; AIR 232 and 238.

AIR 219 **Multi-Engine Flight Theory** (1,2,1,0). A course designed to prepare the professional Flight Instructor to instruct in a modern light twin engine aircraft. State I develops the student instructor's ability to perform the required flight training procedures and maneuvers with the competency of a commercial pilot. State II develops the student instructor's ability to develop effective lesson

plans appropriate to the student involved, and the pilot operations being covered. The student gains actual experience by instructing another student under the supervision of a qualfied Multi-Engine Flight Instructor. Stage I & II, Lessons 1-18, of the Professional Flight Instructor Airplane, Multi-Engine, Flight Training Course. Prerequisite: Permission of Chief Flight Instructor, Co-Requisite: AIR 218

AIR 221 **Flight Instructor** (2,.5,2.0). This flight course prepares the experienced pilot for the Federal Aviation Administration Flight Instructor Certificate for Airplanes. A total of forty hours of instruction is provided, including 8 hours of oral flight instruction, 25 hours of dual instruction. Stage I & II, Lessons 1 thru 21, Flight Instructor Airplane, Single Engine, Flight Training Syllabus. Prerequisite: Unrestricted Comercial Certificate Co-Requisite: AIR 237

AIR 225 **Commercial Flight III** (2,.5,2.0). This course includes Stage III, advanced cross-country and night operations. Stage III provides 42.9 hours of instruction, 10.3 dual, 22.4 solo, and 10 hours oral briefings. Prerequisite: AIR 114 or equivalent. Co-requisite: AIR 114, 135, 236.

AIR 226 **Instrument Flight I** (2,.4,1.5) This course includes Stage I & II, Lessons 26 through 32, of the instrument phase of training. The course provides 35.1 hours of instruction, 16 dual, 7 solo, and 12.1 oral. Areas of instruction include attitude instrument flying, radio navigation, and 2 progress checks. Prerequisite: Students who are interested in obtaining the Instrument Rating must be a Private Pilot or better with at least 140 hours total time. Associate Degree and Professional Pilot Course students must have AIR 225 or equivalent. Co-requisite: AIR 232 and 238.

AIR 228 **Commercial Instrument I** (2,.7,2.8). This course includes the final preparation prior to taking the FAA flight tests for the Commercial/Instrument single and multi-engine certificate and ratings. This course provides 57 hours of instruction; 21.6 dual, 20.8 solo and 14.6 hours of oral. Areas of instruction will include IFR enroute, emergency procedures single and multi-engine, commercial maneuvers and emergency procedures single and multi-engine, and the required progress checks. Prerequisite: AIR 225 and AIR 217 or equivalent.

AIR 231 **Basic Helicopter Flight** (3,1,2). This course prepares the private pilot-airplane pilot to add a helicopter rating to their certificate. The course includes 45 hours of instruction; 20 hours dual, 10 hours solo, and 15 hours of oral briefing and debriefing. Prerequisite: AIR 133 and AIR 141 or equivalent.

AIR 233 **Airline Transport Pilot Certicate** (3,3,1.6). This course prepares the qualified pilot to pass the FAA ATP-135 written, oral and flight tests. The course includes 40 hours of ground training, 25 hours of dual and 8 hours of oral briefing and debriefing. Fifteen of the 25 hours of dual will be instrument flight instruction. Prerequisite: Commercial Pilot with an instrument rating and meet the requirements of FAA 61.151 and 155.

AIR 234 **Advanced Helicopter — Commercial** (3,.5,2). This course prepares the student for the commercial pilot-helicopter certificate or add on rating. This course includes 42 hours of instruction; 20 hours dual, 12 hours pilot in command, and 10 hours of oral briefing and debriefing. Prerequisite; Private Pilot-Helicopter, AIR 135 and AIR 236, and permission of Chief Flight Instructor.

AIR 241 **Pilot Management Internship** (4,2,4). This course will give the student actual on the job experience by teaming him with several corporate or charter pilots for several flights during the semester. The student will gain experience by performing all of the job functions of a working pilot. The student will gain valuable experience in the operation maintenance, record keeping, preparation for flight of cabin class twin engine aircraft. Prerequisite: Private pilot's license and a multi-engine rating.

Aviation Technology (Ground Training Courses)

AIR 131 **Aircraft Science** (3,3,0). This course serves as an introduction to the study of several basic sciences in the aeronautical field. As applied to their theoretical and practical use of aircraft construction and design. Prerequisite: None.

AIR 132 **Propulsion Systems** (3,3,0). This course introduces to the student the propulsion and its operation. Typical operational type power plants are available for study. Prerequisite: None.

AIR 133 **Preflight** (3,3,0). The principles of flight, basics of air traffic control, weather facts, navigational procedures and airplane operations as are pertinent for the Private Pilot, upon successful completion of this course, the student has sufficient knowledge to pass the Federal Aviation Administration written examination for the Private Pilot Certificate. Stage I thru V, Lessons 1 thru 15, Private Ground Training Syllabus. Prerequisite: None.

AIR 135 **Aerophysics** (3,3,0). This is the first of three commercial ground schools. The course introduces physics, physical terms, basis for physical laws in practical application to aeronautics, aircraft performance charts, weight and balance determination, multi-engine

operations and procedures, and aviation safety. This course includes Stage I, III, and VI, Lessons 16 thru 19, 28 & 29, 34 & 35 in the Commercial Ground Training Syllabus. Prerequisite: None.

AIR 218 **Multi-Engine Instructor Theory** (1,1,0). This course is designed to meet the prerequisites specified in parts 61 and 141 of the Federal Air Regulations for the Flight Instructor Airplane, Multi-Engine added instructor rating. Instruction will be to develop the student instructor's understanding of the safe operation of light twin-engine airplanes, including airplane performances, limitation, engine out considerations and emergency situations. Stage II will develop the student instructor's understanding of, and how to perform pertinent flight training maneuvers and procedures. Stage I & II, Lessons 1 thru 11 of the Flight Instructor's Airplane, Multi-Engine, Ground Training Course. Prerequisite: Permission of Chief Flight Instructor

AIR 232 **Meteorology** (3,3,0). This course aims to present concisely and systematically the science of meteorology in its present stage of development. The primary purpose is to set forth the facts and principles concerning the behavior and response of the atmosphere. Prerequisite: None

AIR 236 **Commercial Navigation** (3,3,0). The basic elements of air navigation, computer and plotter, aeronautical charts. Federal Aviation Administration regulations, Federal Aviation Administration publications pertinent to the Commercial Pilot Certificate at the completion of the course, the student will take the Commercial Pilot-Airplane Federal Aviation Administration written examination. Stage II, V, VII, VIII, Lessons 20 thru 27, 32 & 33, 36 thru 40, of the Commercial Pilot Ground Training Syllabus. Corequisite: Air 135.

AIR 237 **Instruction Theory** (3,3,0). This course prepares the enrollee for the instructor-written examination given by the Federal Aviation Administration. Two main topics are fundamentals of instruction and analysis of maneuvers. Federal Aviation Administration Publications, such as Flight Instructor's Handbook, Airman's Information Manual, Flight Training Manual and pertinent advisory Circulars are studied. Stage I & II, Lesson 1 thru 17, of the Flight Instructor Airplane, Single Engine, Ground Training Syllabus. Prerequisite: Chief Flight Instructor's permission.

AIR 238 **Instrument Navigation** (3,3,0). Basic radio fundamentals as used by the pilot. A description and practical use of various radio-aids to safe aerial navigation, including Very High Frequency Omni

Directional Finding (DF) and others. Charts and approach plates as adopted to radio navigation including the use of the Airman's Information Manual. Stage I & II, Lesson 41 thru 53, Ground Training Syllabus-Instrument Phase. Co-Requisite: AIR 232.

AIR 239 **Instrument Flight Instructor Theory** (3,3,0). This course is designed to prepare the Professional Flight Instructor for the instrument flight instructor written and oral examination. Areas of instruction will develop the student instructor's understanding of the fundamentals of learning and teaching procedures, testing and evaluation, weather, aero-dynamics, flight instruments, electronic aids to instrument flying, air-space, air traffic control, emergencies, and aviation safety. 48 hours of instruction is provided, 5 hours of which will be performed by the student instructor. Stage I, II, III, Lessons 1 thru 18, Flight Instructor Instrument, Airplane, Ground Training Syllabus.

Banking and Finance

BAF 130 **Commercial Lending** (3,3,0). The purpose of this course is to provide entry-level commercial lending officers and officer trainees with the knowledge and skills they need to effectively service the needs of the bank's corporate clients and contribute to bank profitability.

BAF 131 **Principles of Banking** (3,3,0). Fundamentals of bank functions in a broad and operational perspective. Some of the topics covered are negotiable instruments, the deposit function, etc. This course is a prerequisite for all banking courses.

BAF 132 **Marketing for Bankers** (3,3,0). Concepts and philosophies of marketing; marketing information research and target; marketing mix (product strategy, distribution strategy, advertising, and sales promotion, personal selling and pricing mix), and methods of marketing planning.

BAF 133 **Savings and Time Deposit Banking** (3,3,0). A study of different types of financial savings are reviewed in order to describe the systems of financial flow from income to capital investment. Also covered are interest rates, types of savings accounts, and the management of savings institutions.

BAF 134 **Money and Banking** (3,3,0). Practical aspects of money and banking; basic monetary theory; problems of economic stabilization, types of spending, the role of gold, limitations of central bank control, government fiscal policy and the structuring of portfolios are all addressed.

BAF 135 **Deposit Operations** (3,3,0). This course examines the deposit operations of banks in the context of the U.S. payments system. It explores how banks operate relative to their deposit taking activities and management of deposited funds. Emphasis is on system rather than product or instrument.

BAF 136 **Negotiable Instruments** (3,3,0). This course explores the relevant legal implications of normal activities and transcations in bank operations. The aim is to improve understanding of how the law operates within the federal and state banking statues, court decisions and administrative regulations.

BAF 137 **Law and Banking** (3,3,0). Emphasis is on the Uniform Commercial Code and rules of law which undergird banking, jurisprudence, the court system and civil procedure, contracts, property, comercial paper, bank deposits and collections, documents of title, etc.

BAF 138 **Bank Accounting** (3,3,0). Designed to teach the techniques of bank accounting through the analysis of bank financial statements. Statements of financial position and income will be examined. Other topics include loans, deposits, investment securities, bank analysis and performance, and other bank related topics.

BAF 139 **Federal Regulation of Banking** (3,3,0). This course provides a comprehensive treatment of the "why" and "what" of federal bank supervision. Some of the topics covered are agencies regulating banks, bank charters, bank reports and examinations, federal limitations on banking operations, and the regulation of bank expansion. Emphasis is on supervision rather than the role of the federal government as it indirectly influences the operations of banks through fiscal and monetary policy decisions.

BAF 230A **Bank Management I** (3,3,0). This is a fundamental course that stresses line and staff organizational flow in banking. Introduction and survey material dealing with basic skills will be introduced.

BAF 230B **Supervision: Concepts and Practices of Management** (3,3,0). The primary objective of this course is to help new or potential supervisors become better managers by developing the broad perspectives and fresh insights into interpersonal relations required by today's successful managers. SUPERVISION focuses on the managerial process: planning, organizing, staffing, directing, and controlling.

BAF 231 **Trust Functions and Services** (3,3,0). Topics covered include services and duties involved in trust operations. Also the business and legal aspects of trust functions are addressed.

BAF 232 **Bank Investments** (3,3,0). A study of primary and secondary reserve needs of commercial banks, sources of reserves and their random and cyclical fluctuations, and the showing of the influence of these factors on investment policy.

BAF 233A **Trust Management** (3,3,0). A study of the organization, operation, and services of the trust department. Some of the specific topics include: department accounting, trust investments, tax administration, and trust automation.

BAF 233B **Trust Operations** (3,3,0). Course content includes concepts and ideas that comprise the various trust functions and translates them into workable procedures. TRUST OPERATIONS provides a basic frame of reference from which those skills can be learned. The course focuses primarily on the development of the knowledge and attitudes that are required to perform specific tasks.

BAF 234 **Bank Management II** (3,3,0). A study of trends which have emerged in the philosophy and practice of bank management. Designed to give new and experienced bankers a working knowledge of bank management.

BAF 235 **Consumer Lending** (3,3,0). Designed to provide an overview of the consumer credit operation, this course examines the role of consumer credit in overall banking operations. It offers an improved understanding of the consumer credit functions within a bank.

BAF 236 **Introduction to Commercial Lending** (3,3,0). This course provides an overview of the commercial loan customer, types of commercial loans, the loan decision process, cost analysis, control and profitability, and the regulatory and legal environment.

BAF 237 **Financial Planning for Bankers** (3,3,0). This course is an overview of planning and application to the current banking environment. It explores the fundamental concept of a financial plan, i.e. credit, housing, taxes, etc.

BAF 238 **Credit Administration** (3,3,0). This course concerns itself with factors influencing and determining loan policy. It discusses methods of credit investigation and analysis, credit techniques, specific credit problems, and regular as well as unusual types of loans.

BAF 239 **Management of Commercial Bank Funds** (3,3,0). This course deals with the principles necessary to derive an adequate philosophy of funds management and is applicable to a broad range of bank situations and sizes.

Biology

BIO 141 **General Biology** (4,3,3). An introduction to the principles and concepts of biological science. An integrated study of life functions and associated structures at the cellular and organismic level. A survey of unicellular organisms, plant groups, ecology and evolution.

BIO 142 **General Biology** (4,3,3). Continuation of BIO 141. An introduction to the principles and concepts of biological science. Survey of the animal kingdom, human organ systems and genetics.

BIO 143 **Botany** (4,3,3). A systematic survey of the structure and functions of plants including cell biology, metabolism, taxonomy, reproduction, genetic principles, and ecology. Life cycles of representative plant groups.

BIO 144 **Zoology** (4,3,3). Structure, physiology and development of animals with emphasis on the vertebrates. Includes the study of cellular respiration, mechanisms of gas exchange, transportation, homeostasis, reproduction, genetics and adaptation.

BIO 145 **Anatomy and Physiology** (4,3,3). The first of two courses in principles of human anatomy and physiology covering basic structure-function relationships, development, and histology. Topics include the organization of the human body, cell physiology, skeletal, muscular and nervous systems, and sense organs. This course is recommended for students majoring in health occupations and physical education. Prior completion of CHM 143 or concurrent enrollment is highly recommended.

BIO 146 **Anatomy and Physiology** (4,3,3). The second of two courses in principles of human anatomy and physiology covering basic structure-function relationships, development, and histology. Topics include the endocrine, cardiovascular, urinary, reproductive, respiratory, digestive systems, metabolism, fluid-electrolytes and acid-base balance, immune system, and stress. This course is recommended for students majoring in health occupations and physical education. Prerequisite: BIO 145.

BIO 147 **Introduction to Life Science** (4,3,3). An introductory course covering selected topics in biological science, including cell structure and function, metabolism, genetics, a survey of the different types of living organisms, ecology, evolution, and human biology.

BIO 242 **Microbiology** (4,3,3). A survey of microorganisms including bacteria, fungi, viruses, protozoa, rickettsia, and algae. Topics include morphology, physiology, and life history. Laboratory emphasizes standard microbiological procedures.

BIO 243 **Entomology** (4,3,3). A study of the biology of insects harmful to man and his plants and animals. Life cycles, methods of attack, nature of damage, and methods of control. Use of collections and mounts of insects in laboratory practice.

BIO 244 **Environmental Biology** (4,3,3).An introduction to basic ecological principles and techniques. Aquatic and terrestrial communities will be studied with emphasis upon the interrelationships of man and his environment. The laboratory will combine experimental study with field observation and investigation.

Business Administration

BUA 130 **Business Mathematics** (3,3,0). The application of arithmetic processes to particular business problems. Topics include fractions, decimals, percentages, proportion, interest, discounts, payrolls, depreciation, insurance, and taxes. Nontransferable and does not count toward an Associate Degree at Texarkana College.

BUA 131 **Introduction to Business** (3,3,0). A general survey of the entire field of business. Analysis of the role and scope of business within the free enterprise system. Concepts of business organization, structure, and decision-making process. Explores ares of specialization and career opportunities in the business world.

BUA 233 **Business Law I** (3,3,0). The development of nature and source of law, general principles of the law of contracts, sales, commercial paper and agency. Prerequisite: Sophomore standing.

BUA 234 **Business Law II** (3,3,0). A continuation of the principles of law, including the law of real and personal property, partnerships, corporations, torts, bankruptcy, and other legal subjects. Prerequisite: BUA 233.

BUA 235 **Personal Finance** (3,3,0). An analysis of financial problems as related to individuals and households. Topics covered include household budgets and budgetary control; bank accounts; consumer credit; personal investments; insurance; home ownership vs. renting; wills; trusts; consumer information and protection, and other selected topics.

BUA 236 **Business Communications** (3,3,0). This practical course focuses on communicating successfully in organizations including overcoming the barriers to communication, writing good new and bad news messages, organizing analytical reports, writing resumés and application letters, conducting meetings and interviews, and giving presentations. Will count as SEC course. Prerequisite: SEC 131, ENG 131.

BUA 238 **Management Principles** (3,3,0). Fundamentals of administrative, staff, and operative management. Development of principles and techniques in organization structure, business objectives, and policy determination, executive functions, leadership, and effective presentations.

Carpenter's Helper*

GCH 161 **General Carpentry Helper and Upholstery** (6,5,25). This is a clock hour program that includes training objectives to deal with wood grading and sizing, safety of tools, fundamentals of carpentry tool usage including both hand and power tools. The last portion of this course will help in upholstery and lamination preparation for furniture manufacturing and repair.

*F.C.I. only

Chemistry

CHM 141 **General Chemistry** (4,3,3). Fundamental principles of theoretical and applied chemistry, stoichiometry, atomic structure, periodic arrangement of elements, ionic and covalent bonding, gases, liquids, and solids.

CHM 142 **General Chemistry** (4,3,3). Fundamental principles of theoretical and applied chemistry. Topics of study include acid-base theory, kinetics, equilibrium, thermochemistry, electro-chemistry, nuclear chemistry, qualitatiave analysis, colloids and the structures of organic molecules. Prerequisite: Chemistry 141

CHM 143 **Introductory Chemistry** (4,3,3). Physical properties of matter, chemical equations, stoichiometry, atomic structure, isotopes, molecular structure, ionic bonding, covalent bonding, naming of compounds, gases, liquids, solids, solutions, osmosis, colloids, acid-base theory, pH, electrochemistry, and a brief survey of functional groups of organic molecules.

CHM 147 **Introductory Organic Chemistry** (4,3,3). A study of basic organic chemistry. Topics of study include the chemistry of carbon compounds such as proteins, lipids, carbohydrates, nucleic acids, steroids, hormones, and enzymes. Selected topics in metabolism and blood chemistry.

CHM 241 **Organic Chemistry** (4,3,4). The classification, structure, nomenclature, methods of preparation, and standard reactions of alkanes, alkenes, alkynes, cyclic aliphatic hydrocarbons, arenes, alcohols, ethers and their derivatives. Prerequisite: Chemistry 141 and 142.

CHM 242 **Organic Chemistry** (4,3,4). The classification, structure, nomenclature, methods of preparation, and standard reactions of carboxylic acids, sulfonic acids, amines, diazonium salts, aldehydes, ketones, carbohydrates, proteins, polyhydroxy compounds, heterocyclic compounds, and their derivatives. Prerequisite: Chemistry 241

CHM 243 **Quantitative Analysis** (4,3,4). The theory and practice of fundamental quantitative and analytical procedures. Special emphasis on the development of laboratory techniques. Prerequisite: Chemistry 141 and 142.

Commercial Music

CMU 130 **Survey of Recording** (3,3,2). An introduction to audio recording. Will include the nature of sound, operation of recording equipment, session procedures, studio techniques and multi-track recording.

CMU 131 **Composition, Arranging, & Orchestration I** (3,3,0). A two-semester course to examine country, rock, and popular harmony and song forms. Various combinations for vocal and instrumental arranging will be learned while mastering the transpositions and ranges of instruments.

CMU 132 **Composition, Arranging & Orchestration II** (3,3,0). The second semester of a two semester course to examine country, rock and popular harmony and song forms. Various combinations and vocal and instrumental arranging will be learned while mastering the transpositions and ranges of instruments. Prerequisite: CMU 131.

CMU 133 **Recording Studio Technology** (3,3,3). An intensive study of the theory of studio recording, microphone usage and multi-track mixdown techniques. Students will produce, engineer, mix, set-up and perform in actual multi-track recording sessions. Portfolio samples may be required.

CMU 134 **Survey of American Jazz, Rock & Country Music in Twentieth Century** (3,3,0). A one semester course to familiarize students with popular music styles with harmonic, rhythmic, and scoring trends. The interaction of jazz, rock, and country features will be examined.

CMU 135 **Introduction to Midi** (3,3,3). A basic introductory course to study "Music Instrument Digital Interface" which is a systems introduction with the midi language. This course will introduce an overview of midi instruments, analog and digital systhesis, D/A and A/D conversion, and slave/controlled units will be presented with design/function of studio layout as the main focus.

CMU 136 **Midi Programming** (3,3,3). The student will be introduced to an in-depth study of digital sequencing and sampling, including analog and digital editing of wave data. Also included will be a study of audio/video sync techniques/programs.

CMU 137 **Midi Production** (3,3,3). This course includes advanced techniques of editing of wave data, FM/Additive synthesis, out-board effects with midi control, and an overview of midi mixers. Midi Production also include a detailed study of analysis/design of midi studios. Students will plan, create, and complete original sampled/sequenced/edited compositions. Students may acquire a portfolio copy of completed/approved compositions to enhance their resumé.

CMU 230 **Recording Studio Practices** (3,3,3). The artistic and stylistic considerations of audio recording. Class projects will be assigned for inducing creative situations whereby the student will complete artistic audio recordings. Prerequisite: CMU 133.

CMU 231 **Commercial Advertising — Jingles** (3,3,3). Analysis of modern "jingle" writing, including scoring, melodic design and rhythmic effectiveness as pertaining to commercial writing for media. Prerequisite: CMU 131.

CMU 232 **Studio Productions** (3,3,2). Students will produce, engineer, mix and complete professional quality audio recordings to demonstrate the theory and practice of studio and control room techniques. Prerequisite: CMU 220.

CMU 233 **Transcribing, Editing, Copying Technology** (3,3,2). Designed to broaden skills and methods in copying, transcribing, writing lead sheets through analysis of existing manuscripts and student assignments. Prerequisite: CMU 131 and CMU 132.

Computer Science

CSI 131 **BASIC Computer Programming** (3,3,3). An introduction to the BASIC language and the microcomputer specifically the PET personal computer. The language, history, program management, input and output, branching, looping, functions, DATA and READ statements, random number generation and the internal clock are covered.

CSI 133 **Pascal Programming** (3,3,4). An introduction to programming microcomputers using the Pascal language. Topics include programming techniques using a structured language, scientific program solving, and the syntax and semantics of the Pascal language.

CSI 231 **Digital Computer FORTRAN Programming and Problem Solutions** (3,3,3). FORTRAN IV statements, interpretation of FORTRAN statements in terms of computer memory locations and operations within the arithmetic and logic unit. Analysis of problems and computer solutions (algorithmic process). Outlining the steps of computer solution to a problem (flow charting). The student learns to use a computer terminal with a disc drive. The course is constructed to serve as an aid to majors in Engineering, Science and Mathematics.

CSI 232 **Numerical Methods for the Digital Computer** (3,3,3). The course is designed ot teach elementary numerical methods and problems solution using the digital computer to students of Engineering, Mathematics and Science. Each student will have hands-on computer time. Prerequisite: CSI 231 or permission of isntructor and MTH 231. Co-requisite: Enrollment in MTH 232.

Cosmetology

COS 161 **Introduction to Cosmetology I** (6,5,26.25). Introduction to the rules and regulations concerning cosmetology standards. Also covered are professional ethics, hygiene, public relations, sanitation procedures. Also after 150 hours students start some customer treatments.

COS 162 **Cosmetology II** (6,5,26.25) A continuation of the state based contact hours for cosmetology licensure. This quarter the student will study scalp treatments and manipulations, study of skin, chemistry involved in hair treatments, etc. Also study manicuring. Introduction theory of haircutting.

COS 163 **Cosmetology III** (6,5,26.25). In this quarter cosmetology students will advance through training by working in areas including cold waves, hair cutting, styling. Particular concentration of "practicing on the patrons".

COS 164 **Cosmetology IV** (6,5,26.25). This final quarter in cosmetology will include such areas as hair coloring, facials, advanced techniques in cutting, styling, and waves. Special review and preparation to take state board examination.

Cosmetology Instructor

COS 261 **Cosmetology Instructor I** (6,5,26.25). This course is designed to introduce the student to the cosmetology laboratory as a training setting. Psychology of teaching, methods, and student records will be covered.

COS 262 **Cosmetology Instructor II** (6,5,26.25). A continuation of COS 261. This will conclude the curriculum to train an individual to obtain state licensure as a cosmetology instructor.

Criminal Justice Administration

The Criminal Justice program is approved by the Coordinating Board and the Texas Commission of Law Enforcement Officer Standards and Education. All criminal justice instructors are certified as such and are full time or former officials in the criminal justice system with many years of experience in their fields of instruction. Areas of study include history and development of criminal justice; Crime in America; Fundamentals of Criminal Law; The Courts and Criminal Procedures; Police Systems and Practices; Criminal Investigation; Constitutional Law; Correctional Systems and Practices; Traffic Laws; Juvenile Delinquency; Probation and Parole; Fingerprinting; Forensic Science; Drug Abuse; Interview and Confessions; Firearms and ammunition identification and Security and Crime Prevention. In addition there are open discussions on current U.S. Supreme Court rulings which related to all criminal justice activities.

CJA 131* **Introduction to Criminal Justice** (3,3,0). History, philosophy, and development of the criminal justice system; crime defined. Its nature and impact; overview of criminal justice system; law enforcement; prosecution and defense; court system; trial process; corrections.

CJA 132* **Crime in America** (3,3,0). Historical study of American crime problems; social and public policy factors affecting crime; impact of crime and its trends; social characteristics of specific crimes; crime prevention.

CJA 133* **Fundamentals of Criminal Law** (3,3,0). A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crimes; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

CJA 134* **The Courts and Criminal Procedure** (3,3,0). The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence; sentencing.

CJA 135 **Traffic Law** (3,3,0). History, development and economics of the modern transportation system; local and state traffic laws; agencies involved in traffic administration, control and enforcement; DWI and accident investigation.

CJA 136 **Introduction to Security and Crime Prevention** (3,3,0). A study concerned with safety and security of the community, businesses and persons; examines measures individuals can take to protect themselves, their families, businesses and homes from crime.

CJA 137 **Basic Studies in Juvenile Delinquency** (3,3,0). Study of deviant behavior with emphasis on youthful offenders; current theories of crime causation and treatment of juvenile offenders; crime prevention and the involvement of juveniles in various areas of crime in the United States.

CJA 138 **The Role and Performance of Participants in Criminal Justice** (3,3,0). A study of role expectations and performance of the various participants in the American criminal justice system such as Chief of Police, Sheriff, Detective, Police Officer, Judge, Prosecutor, Defense Attorney, Bail Bondsman, Probation and Parole Officers, Prison Warden, Correctional Officer and Counselor, Youth Supervisor, Social Worker, Offender and Victim.

CJA 231* **Police Systems and Practices** (3,3,0). The Law Enforcement profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.

CJA 232* **Criminal Investigation** (3,3,0). Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; use of the forensic sciences; case and trial preparation.

CJA 233* **Legal Aspects of Law Enforcement** (3,3,0). Authority and responsibilities of law enforcement officers; constitutional restraints on police behavior; laws of arrest, search and seizure; criminal and civil liability of police officers.

CJA 234* **Correctional Systems and Practices** (3,3,0). Corrections in the criminal justice system; organization of correctional systems: correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.

CJA 235* **Community Resources in Corrections** (3,3,0). An introductory study of the role of the community in corrections; community programs for juveniles and adults; administration of community programs; legal issues; future trends in community treatment.

CJA 236 **Introduction to Forensic Science** (3,3,0). Techniques, skills and limitations of the modern crime laboratory for student with little or no background in the forensic sciences. Nature of physical evidence is stressed along with methods as to its collection and preservation.

CJA 237 **Probation and Parole** (3,3,0). The history, development, organization, and operation of probation and parole is studied as a substitute for incarceration of criminal offenders; methods for selection and success and/or failure rates of criminal offenders are studied.

CJA 241 **Defensive Measures** (4,3,3). Introduction to skills and techniques required for the safety and protection of criminal justice personnel; theory and application as to safe handling and use of weapons. This is a sophomore level course and has a lab fee.
*Course approved for transfer among all public institutions of higher education in Texas, but limited to 21 hours such institutions are required to accept. Consult the catalog of the four year institution to which you intend to transfer.

Data Processing (Mainframe)

DAP 130 **Introduction to Data Processing** (3,3,0). This course will give the student a basic knowledge of unit record and computer equipment through a broad approach to the data processing techniques. Study encompasses the history of data processing from early manual methods to today's third generation equipment. Equipment is studied from a functional rather than operational standpoint. Self-paced, individualized instruction or optional regular classroom instruction.

DAP 133 **Computer Logic** (3,3,0). This course is designed to acquaint the student with the fundamental logic as related to computer programming, algorithms, flowcharting, boolean logic, decision tables, truth tables and arrays.

DAP 134 **ANS COBOL Programming** (3,3,3). This course covers the basic elements of COBOL and provides the student with form, file, and programming skills necessary to produce a wide variety of business reports using sequential input files. Prerequisite: DAP 130.

DAP 230 **Advanced ANS COBOL Programming** (3,3,3). This course covers processing involving magnetic tape, magnetic disk, and includes such topics as input editing, sequential file updating and retrieval of indexed sequential files. Prerequisite: ANS COBOL DAP 134.

DAP 231 **PL/I Programming** (3,3,3). This course is designed to acquaint the student with principles of PL/I programming. Business type problems using card, tape and disk files will be solved using the PL/I language. Prerequisite: DAP 130.

DAP 232 **Internship in Data Processing** (3,1,4). This course is designed to provide the student with actual experience in a chosen area of data processing. The student will be provided qualified supervision working with real situations. The area chosen will be in applications programming or systems programming. Prerequisites: (A) Applications Programming: Any two of the following—DAP 231, DAP 236, DAP 234, DAP 233, DAP 230. (B) Systems Programming: DAP 233, DAP 246.

DAP 233 **Assembler Language Programming** (3,3,3). This is designed to acquaint the student with the basic principles of Assembler Language programming. Internal aspects of the IBM System 360 are presented. Business type problems will be programmed by the student. Prerequisite: DAP 134.

DAP 234 **RPG II Programming** (3,3,3). This course is designed to acquaint the student with principles of RPG II Programming. Business problems involving card, tape, and disk files will be presented. Prerequisite: DAP 130.

DAP 236 **FORTRAN Programming** (3,3,3). This course is designed to acquaint the student with principles of FORTRAN programming. Scientific and mathematical problems will be solved using arrays, matrices, and floating point numbers. Prerequisite: DAP 130.

DAP 238 **Advanced RPG II Programming** (3,3,3). This course is designed to acquaint the student with business type problems using arrays, tables, and other advanced features of the language. Problems using sequential, indexed sequential, and READ demand files will be programmed by the student. Prerequisite: DAP 234.

DAP 246 **Computer Operations** (4,3,3). The student will learn to operate various input-output components of the computer system. An extensive study of Job Control Language is presented. Operation of the IBM System 360 under DOS using multiprogramming will be studied. DAP 233 should be taken prior to or concurrently with this course.

Data Processing (Microcomputers)

DPM 131 **Word Processing/Data Entry** (3,2,3). This course is designed to acquaint the student with principles of data entry and word processing. Data entry areas include basic machine operations and speed and accuracy drills. Equipment includes IBM 029 and IBM 129 keypunch machines, mainframe computer terminals, and IBM personal computers. Word processing areas include basic machine operations, entering, editing, saving, printing, and retrieving documents. Popular word processing programs are taught on IBM personal computers. Prerequisite: 30 wpm typing speed.

DPM 132 **Basic Programming** (3,3,3). This course is designed to acquaint the student with principles of BASIC programming. Statistical, business and mathematical problems will be solved using simple notation in a language used by many microcomputers. Prerequisite: DAP 133 recommended.

DPM 133 **Turbo Pascal** (3,3,3). This course is designed to acquaint the student with principles of Turbo Pascal programming. Statistical, business, and mathematical problems will be solved by writing Turbo Pascal programs on IBM personal computers. Prerequisite: DAP 133.

DPM 134 **Microcomputer COBOL Language Programming** (3,3,3). This course is designed to acquaint the students with the concepts and fundamentals of microcomputer COBOL programming. The operating system, compiler, COBOL language, disk, screen and print file processing, debugging, and problem solving through definition and solution will be covered. Prerequisite: DAP 133.

DPM 138 **Ada Programming Language** (3,3,3). This course is designed to acquaint the students with the fundamentals and concepts of the Ada programming language. Business problems will be solved by writing programs on the IBM personal computers. Prerequisite: DAP 133.

DPM 139 **C Programming Language** (3,3,3). This course is designed to acquaint the student with the fundamentals of the C programming language. Business applications will be written and debugged using IBM personal computers. Prerequisite: DAP 133.

DPM 140 **Computer Literacy** (4,3,3). This course is designed for the student who owns or plans to use a microcomputer. The student will be taught to operate and use microcomputers, computer terminology and definitions, spreadsheets, data bases, and word processing. Assignments will be executed on the IBM personal computers.

DPM 146 **Operating Systems** (4,3,3). This course will use a popular operating system such as MS-DOS or OS-2 to teach the fundamentals and concepts of an operating system. It will demonstrate the functions of computers and data bases and use them to demonstrate the functions of the operating system. Prerequisite: DPM 140 recommended.

DPM 232 **Internship** (3,1,4). Students will be expected to produce an integrated solution to a real business problem using a language of their choice. Students will research the problem, design the programs and implement the system. Prerequisite: Students must have taken all the courses necessary to implement their particular solution, therefore, they must have instructor approval.

DPM 233 **Micro Assembly Language** (3,3,3). This course is designed to acquaint the student with the actual instructions, data forms and memory map of the microcomputer. The student will write subroutines to interface with BASIC or Turbo Pascal that create windows, page flip and various logical functions. Prerequisite: One of the following: DPM 134, DPM 236, DPM 132, DPM 133.

DPM 235 **Automated Accounting** (3,3,0). This course will encompass accounting systems as applied to modern data processing methods. Study will be made into structure of accounts, methods of analyzing and improving accounting systems and the design of automated accounting systems. Problems will be solved using the IBM personal computers. Prerequisite: ACC 231.

DPM 236 **FORTRAN Programming Language** (3,3,3). This course is designed to acquaint the student with principles of FORTRAN programming. Logical and mathematical problems will be solved using arrays, matrices and floating point numbers on an IBM personal computer. Prerequisite: DAP 133.

DPM 237 **Advanced BASIC** (3,3,3). This course is designed to develop skills with major emphasis on interactive business applications using disk files and to acquaint the student with the color graphics and audio capabilities on the microcomputer. Prerequisite: DPM 132.

DPM 239 **Unix** (3,3,3). This course provides the student access to a popular network operating system that has multi-tasking, electronic mail, screen editing, and shell programming. The student will be required to use the major facets of this system as well as integrate a data base within the system. Prerequisite: DPM 140. Recommend: DPM 146.

DPM 240 **Electronic Spreadsheets** (4,3,3). This course is designed to develop a hands-on skills usage with electronic spreadsheets, database management, graphics, keyboard macros and word processing through the use of integrated spreadsheet software on IBM personal computers. Electronic spreadsheet and database problems common to the business atmosphere involve accounting, inventory, payroll, annuity schedules and various report calculations. Recommend: DPM 140.

DPM 241 **Data Base Management** (4,3,3). This course is designed to acquaint the student with the principles of a popular data base such as D-BASE III using IBM personal computers. Students will solve business type problems in creating a data base, adding data to it, searching, sorting, and editing the data and printing formatted reports. Recommend: DPM 140.

DPM 242 **Color Graphics** (4,3,3). This course is designed to teach the fundamentals of microcomputer graphics using BASIC or Turbo Pascal. The student will use color graphic commands to display bar graphs, pie charts, line graphs and other computer generated designs. The student will also use CLIP ART or similar software to create graphics. Prerequisites: DPM 132 or DPM 133. MTH 132 recommended.

Diesel Mechanics
(Clock Hour Program)

DME 161 **Internal Combustion Engine I.** A study of shop safety, tool and engine nomenclature, and the historical background of the internal combustion engine. Engines will be disassembled and reassembled.

DME 162 **Internal Combustion Engine II.** A continuation of DME 161. Advanced instruction in assembly and disassembly of engines.

DME 163 **Power Application.** Detailed study of clutches, torque converters, fluid drive, differentials, power transmitters, transmissions, and hydraulic systems as they apply to power train applications.

DME 164 **Electrical System for Diesels.** This course is designed to start the student in shop application for diesel engines electrical systems. This should involve study of starters, generators, alternators, voltage regulators, and like items.

DME 165 **Industrial Co-op Training I.** In this quarter a student will begin coordinated work experiences at industrial training sites. One hundred and twenty hours of this 360 hour quarter will be spent on campus in a study of hydraulics, theory and application to repairs on accessories related to heavy equipment operations.

DME 166 **Industrial Co-op Training II.** This final quarter of 360 hours is a continuation of DME 165. Students will be involved in coordinated work stations and will come back to campus 120 hours for specialization in trouble shooting, fuel systems, power train repair and engine analysis.

Drafting Technology (Associate Degree Program)

DFT 133 **Computer Aided Drafting I** (3,2,2). The use of the computer system to do simple machine drafting including the views, notations, dimensions, tolerancing of single components. This course is an introduction to the computerized drafting system. Prerequisite: EGR 131; Corequisite: EGR 132.

DFT 134 **Topographical Drafting** (3,2,2). With CAD applications. This course involves the use of good drawing practice in the drawing of contours, plotting of elevations, plats, field surveys, right-of-way maps, easements, and profiles. Corequisite: EGR 131.

DFT 135 **Machine Drafting** (3,2,2). With CAD applications. Involves study and practice in the design of machinery for industry including tools, jigs, fixtures, gearing, cams, and dies. Prerequisite: EGR 131; Co-requisite: EGR 132.

DFT 231 **Computer Aided Drafting II** (3,2,2). Application of the CAD system to Architectural, Assembly and projection drawings. Prerequisite: DFT 133.

DFT 232 **Technical Illustration** (3,2,2). With CAD applications. A study in the drawing of pictorials and flat drawings and the shading, shadowing and rendering of these views. Includes airbrushing, stick-on, and rub-on medium and highlighting. Emphasis is placed on the axonometric and perspective pictorials. Prerequisite: EGR 131, EGR 132.

DFT 233 **Architectural Drafting I** (3,2,2). With CAD applications. Standard architectural details, conventional representation and practice, detail and assembly drawing. The course includes the planning and execution of simple and practical architectural projects. Topographical drawings, tracings, and freehand lettering constitute a part of the course. Prerequisite: EGR 131.

DFT 234 **Architectural Drafting II** (3,2,2). With CAD applications. A continuation of DFT 233. Architectural details in various types of construction, working drawings, and techniques of presentation. Prerequisite: DFT 233.

DFT 235 **Computer Aided Drafting III** (3,0,6). This course consists of an approved semester project in Drafting Technology using the CAD system. Prerequisite: DFT 231.

DFT 236 **Pipe and Structural Drafting** (3,2,2). With CAD applications. A course designed to acquaint the student with the basics of pipe drafting in the single and double line techniques and with flow diagrams. A dual purpose will be to introduce the student to the design and drawing of structural members, connectors, and the development of details and specifications for light industrial structures. Prerequisite: EGR 131, EGR 132.

DFT 237 **Electrical and Electronic Drafting** (3,2,2). With CAD applications. A course teaching the symbols, terms standards, diagrams, circuits and solid state layouts necessary for the student to have a practical knowledge of this type of drafting. Prerequisite: EGR 131.

DFT 238 **Materials and Processes** (3,2,2). A study of materials and manufacturing processes in the casting, forming, welding, machining, etc., of parts and the applications of these processes to the drawing and their effects on the views dimensioning, tolerancing, and other specifications on a drawing. Prerequisite: EGR 131.

DFT 239 **Pattern Drafting** (3,2,2). With CAD applications. A study of the different methods of pattern development for sheet metal layout. Parallel line, Radial, Gore, Zone, Triangulation, and combination problems will be covered. Prerequisite: DFT 133.

Drafting Technology*
(Clock Hour Program)

DFT 161 **Fundamentals of Drafting** (6,10,20). Technical drawing including freehand lettering, theory of orthographic projections, auxiliary projection, sections revolution, intersections of surfaces, axonometrics, working drawings, tracings and duplications with descriptive geometry including principle views, primary and oblique views, visualization of lines and planes, intersections, warped surfaces. (30 hours per week, 360 hours per term)

DFT 162 **Architectural and Machine Drafting** (6,10,20). Standard architectural details, conventional representation and practice, detail and assembly drawing. The course includes the planning and execution of simple and practical architectural projects. Topographical drawings, tracings, and freehand lettering constitute a part of the course. Architectural details in various types of construction, working drawing, and techniques of presentation. The course serves a dual purpose of the study and practice of machine

design and drawing of machine needed including airbrush, rub-on, stick-on, highlighting and inking mediums. Emphasis on catalog type illustrations in axonometric and perspective pictorials. (30 hours per week, 360 hours per term) Prerequisite: DFT 161.

DFT 163 **Pipe Structural and Computer Drafting** (6,10,20). A course covering single line and double line pipe drawing, symbols, techniques developed drawings and flow diagrams. A dual role of the course will be to acquaint the student with the design and drawing of structural member, connectors, standard shapes, symbols, details and specifications for structural drawings as required in a light industrial structure. Also includes basic topographical drawing including layout, contour mapping, plotting of elevations, plots, right-of-way maps, easements, etc. The use of the computer is developed in this class and is used to produce drawings of maps and other two dimensional drawings including lettering, dimensioning and notations. (30 hours per week, 360 hours per term) Prerequisite: DFT 162.

*FCI only

Drama

DRA 111 **Drama Practicum** (1,0,3). A study in dramatic activities for
112 performances and competition. Laboratory practice in one-act
113 plays, solo and duet acting, and practical application of principles
114 of theater act. Majors and minors required to enroll each semester.

DRA 131 **Introduction to the Theater** (3,3,0). A general survey of the major fields of theater art. Emphasis on the various types and styles of plays, elementary theory and practice of acting and directing, basic principles of technical production, methods of construction and handling of scenery, elementary problems in design, stage lighting, costume and costume design. Participation in major productions. For drama majors and non-majors. Satisfies the Fine Arts Humanities requirement.

DRA 132 **Stagecraft** (3,3,0). A beginner's course in the art and crafts of the theater. Costuming, scene design and construction, lighting and makeup. Practical experience working with one-act plays and major productions. Three hours lab.

DRA 134 **Theater Speech** (3,3,0). A study of and practice in using the actor's voice. Includes breath control, articulation-enunciation-pronunciation, projection, and phonetics. Helpful to any student wishing to improve vocal performance and correct careless and ineffective speech habits. Required of drama majors.

DRA 135 **Acting I** (3,3,0). An elementary study of the principles of acting including following stage directions, the use of stage areas, coordination of voice and body, improvisation practice in scenes from plays. Practical application in working with college productions.

DRA 136 **Acting II** (3,3,0). A continuation of Acting I with emphasis on characterization and creating a role. Theories of Acting and Styles of Acting. Practical application in working with college productions. Prerequisite: Drama 133-Acting I or permission of the instructor.

Economics

ECO 131 **Survey of Economics** (3,3,0). An overview of the total U.S. economy and how individual firms operate within the contemporary economic system. (Business and Economic majors are required to take ECO 231 and 232.)

ECO 231 **Principles of Economics I** (3,3,0). Fundamental principles of economics, emphasizing the overall view of the American economy and macro-economic issues. Major topics of study include production possibilities, supply-demand analysis, national income accounting, money and banking, classical/neoclassical philosophy, and economic growth.

ECO 232 **Principles of Economics II** (3,3,0). A micro-economic study of market structures; demand, supply, costs, and theory of the firm and of income distributions. An analysis of American economic growth and problems, international economics, and comparative economics systems. Prerequisite: ECO 231.

Education

EDU 135
136 **Public School Art** (3,3,0). The teaching of public school art in the elementary grades. Training in writing and drawing as requested by the State Department of Education; construction work; elementary free-hand and mechanical perspective; elementary design and color; lettering and poster work; art appreciation in elementary grades.

EDU 137 **Public School Music** (3,3,0). A narrative description is found in the music section of the current catalogue as Music 137.

EDU 138 **Music Teaching in the Elementary Grades** (3,3,0). A narrative description is found in the music section of the current catalogue as Music 138.

Electricity

IEL 161 **Introduction to Electric Theory.** A fundamental course in basic electric theory. Use of test equipment, shop procedures, and safety are stressed. Practical electrical wiring methods, materials identification, and the Electrical Code are introduced.

IEL 162 **Basic Wiring and Code.** This course is a continuation of IEL 161. Solution of AC circuits is introduced. Practical wiring methods and the NEC are covered in greater depth.

IEL 163 **Electric Motor Theory.** The theory of transformers, single-phase, and three-phase motors are introduced. Blueprint reading, practical labs, specialized test equipment, and the Code are also emphasized.

IEL 164 **Electric Motor Controls.** Electromagnetic motor controls theory along with practical labs and applicable Code lessons are provided to the student. Basic concepts of static motor controls, programmable controllers, and fire control circuits are introduced.

IEL 165 **Practical Applications of Wiring, Motor, and Controls.** This course emphasizes comprehensive Code studies, advanced blueprint reading, and electrical calculations. Advanced level labs and work projects are given to reinforce the written work.

IEL 166 **Residential Hardware.** Intensified study of all hardware used in residential wiring. This includes single pole, three and four way switches, and receptacles up to 50n amps, outlets for lighting and device boxes, and conduit bending. Safety and Code lessons are continued.

IEL 167 **Residential Services and Calculations.** This course includes residential services, temporary poles, meter loops, making up residential panels, circuit breakers, fuses, and disconnects. Residential calculations and blueprint reading are provided. Code study is continued.

IEL 168 **Practical Applications of Residential Wiring.** This course emphasizes comprehensive Code studies, blueprint reading, residential calculations, and safety. Labs and work projects are provided to reinforce written work.

Electronics Technology

ELT 131 **Introduction to Digital Electronics** (3,3,0). A study of numbering systems, codes, and conversion, binary arithmetic, logic gates, truth tables and symbology (MIL STD and ANSI/IEEE). Introduction to Boolean Algebra and Karnaugh mapping.

ELT 141 **DC Circuit Analysis** (4,3,3). Fundamental principles of DC electricity, metric, scientific notation, series and parallel circuits, Ohm's Law, and Kirchhoff's Laws for DC circuits, basic resistive network theorems including Thevenin and Norton, inductance and capacitance are introduced as circuit time constants. Corequisite: MTH 131, MTH 132.

ELT 142 **AC Circuit Analysis** (4,3,3). Fundamental principles of AC circuits, including inductance, capacitance, reactance, impedance, resonance, tuned circuits, filters, and complex AC circuits. Vector analysis of AC current, voltage, and power relationships. Prerequisite: ELT 141, MTH 132.

ELT 143 **Logic Analysis** (4,3,3). A study of TTL integrated circuits including fli-flop, counters, registers, code converters, multiplex and arithmetic circuits. Minimization techniques including Boolean algebra and Karnaugh maps. To complement theory, laboratory experiments emphasize the design, operation and troubleshooting of SSI and MSI circuits. Prerequisite: ELT 131.

ELT 144 **Microprocessor Programming** (4,3,3). A study of assembly and machine language programming of the MC6800 microprocessor including arithmetic, data handling, logic, data test, indexed, jump, branch and condition code instructions.

ELT 145 **Active Devices** (4,3,3). This course examines the operating characteristics, typical operating potentials, and biasing of various devices used for generation and amplification of signal currents. Circuit models include diodes, bipolar junction transistors, field-effect transistors, and PNPN devices. Prerequisite: ELT 141.

ELT 241 **Electronic Circuit Analysis** (4,3,3). An indepth circuit analysis of, basic design techniques for, and troubleshooting of power supplies, voltage regulators, amplifiers, oscillators, and pulse shaping devices. Prerequisite: ELT 145, ELT 142.

ELT 242 **Linear Integrated Circuits** (4,3,3). A study of the differential amplifier, operational amplifier, positive and negative feedback circuits, comparators, active filters, voltage controlled oscillators, voltage regulators, and phase-lock-loop circuits. Prerequisite: ELT 241.

ELT 243 **Microprocessor Interfacing** (4,3,3). A study of input and output interfacing with switches, displays, converters and memory emphasizing programmable peripheral adapters both parallel and serial standards. Prerequisites: ELT 143, ELT 144.

ELT 244 **Electronic Communications** (4,3,3). A study of amplitude modulation, frequency and phase modulation, single-sideband, frequency multiplexing transmission and reception. Introduction to digital communication techniques. Prerequisite: approval of instructor.

ELT 246 **Digital and Microprocessor Applications** (4,3,3). A study of programming and troubleshooting the 6800 and 8085A microprocessor based systems, with emphasis on the K6800 microcomputer. Troubleshooting will consist of using diagnostic programs, logic state analyzer, signature analyzer, oscilloscope, logic probe and pulser, and current tracer. Prerequisites: ELT 143, ELT 144.

ELT 247 **Special Devices** (4,3,3). A study of microwave transmission and reception. Basic theory of wave propagation, transmission lines, waveguide, and antennas. Introduction to fiber optics and lasers. Prerequisite: approval of instructor.

ELT 248 **Industrial Electronics** (4,3,3). A study of industrial processes through the use of Gould-Modicon and Allen-Bradley programmable controllers. This course emphasizes laboratory projects reflecting process control/machine control systems including input-output structures, signal conditioning and data/bit manipulation. Prerequisite: approval of instructor.

Emergency Medical Technology

EMT 141 **Emergency Medical Procedures (Basic Program)** (4,3,3). This is first in a series of two courses required to complete Emergency Medical Technician training. The course will develop student knowledge and proficiency in medical terminology, basic anatomy and physiology, basic cardiac life support, recognition of symptoms and emergency treatment of the traumatized patient in the pre-hospital setting.

EMT 152 **Emergency Medical Procedures (Basic Program)** (5,3,6). This is the second in a series of two courses required to complete Emergency Medical Technician training. The course will develop student knowledge and proficiency in the recognition of symptoms and emergency treatment of the obstetrical, pediatric, adult and geriatric patient experiencing medical problems in the pre-hospital setting. Includes required in-hospital clinical participation and emergency ambulance runs. Prerequisite: EMT 141.

EMT 240 **Advanced Emergency Medical Procedures (Paramedic Program)** (4,2,6). The first course in the paramedic program. The study of pre-hospital environment, including EMS systems, medico-legal considerations, EMS communications, telemetry, extri-

cation and rescue, major incident response and personal stress management. Prerequisite: current EMT certification or EMT/I certification and current BCLS certification.

EMT 261 **Advanced Emergency Medical Procedures (Paramedic Program)** (6,4,6). The second paramedic course will develop student knowledge and proficiency in both legal and medical responsibility of the EMT/Paramedic, human body systems and patient examination and assessment, shock and fluid volume replacement, general pharmacology, medication dosage and administration, respiratory system and advanced airway management. Also includes 136 clock hours in clinical practice in the hospital, lab, pharmacy, E.D.; pre-hospital setting. Prerequisite: EMT 240.

EMT 252 **Advanced Emergency Medical Procedures (Paramedic Program)** (5,2.5,7.5). The third paramedic course includes study of the cardiovascular system, patient assessment, intravenous therapy, medication administration, advanced airway management, and cardiac emergency management. Prerequisite: EMT 261. Concurrent registration with EMT 253.

EMT 253 **Advanced Emergency Medical Procedures (Paramedic Program)** (5,2.5,7.5). The fourth paramedic course includes study of the central nervous system, soft tissue injuries, the musculoskeletal system, patient assessment and pharmacology. The student will acquire advanced skill and practice with physical assessment, intravenous therapy, medication administration, advanced airway management, cardiac emergency management, spinal immobilization, hemorrhage control and fracture immobilization. Prerequisite: EMT 261. Concurrent registration with EMT 252.

EMT 244 **Advanced Emergency Medical Procedures (Paramedic Program)** (4,2,6). The fifth paramedic course will develop knowledge and proficiency in pediatric emergencies and patient care management of the emotionally disturbed patient, multiple patients and triage. Also includes 100 clock hours clinical practice in the hospital emergency department. OR/Recovery, OB/Nursery and the pre-hospital EMS services. Prerequisite: EMT 261, 252, 253.

EMT 151 **Emergency Medical Technician (Intermediate)** (5,4,6). This EMT course is designed to train the Basic Emergency Medical Technician in the use of selected advanced emergency skills: administration of intravenous fluids, advanced airway management, use of the MAST garment, and increased skill in the primary and secondary assessment of the patient. A minimum of sixty-four (64) hours of didatic and skills instruction combined with

forty-eight (48) hours of clinical training and forty-eight (48) hours of ambulance internship is required. Prerequisite: Current Basic EMT certification and BCLS certification.

EMT 241 **Advanced Cardiac Life Support** (4,1,3). This course is designed for professional personnel practicing in critical care units, emergency departments, and paramedic units. Course content includes basic and advanced cardiac life support, arrhythmia recognition and interpretation, emergency cardiac drugs, use of mechanical CPR devices, and advanced airway management. The American Heart Association certification examinations, administered on campus at the end of the course, are optional.

Engineering

EGR 111 **Introduction to Engineering Problems** (1,2,0). Introduction to the profession of engineering. Vectors and vector algebra, logical thinking, neatness and form, engineering mathematics, and the use of calculators are covered.

EGR 112 **Introduction to Engineering Problems** (1,2,0). Introductory analysis, statics, and dynamics problems and their solutions. Prerequisite: EGR 111 or approval of instructor.

EGR 131 **Engineering Graphics I** (3,2,2). Technical drawing including freehand lettering, theory of orthographic projections, auxiliary projection, sections, revolution, intersections of surfaces, axonometrics, working drawings, tracings and duplications.

EGR 132 **Engineering Graphics II** (3,2,2). Descriptive geometry including principal views, primary and oblique views, visualization of lines and planes, intersections, warped surfaces. Prerequisite: EGR 131.

EGR 231 **Engineering Mechanics I (Statics)** (3,3,0). Fundamental principles of statics: force systems, equilibrium, structures, distributed forces, friction, virtual work, moments of inertia of area, and moments of inertia of mass. Prerequisite: MTH 231, and Corequisite: MTH 232.

EGR 232 **Engineering Mechanics II (Dynamics)** (3,3,0). Principles of dynamics: Kinematics, Principles of Kinetics, Newton's laws of motion, work and energy, impulse and momentum, and periodic motion. Prerequisite: EGR 231 or Division Approval.

English

Placement of all beginning freshmen English students will be determined by ACT or SAT scores or English Placement Test scores.

ENG 031 **Basic English** (3,3,0). A course, using varied instructional techniques, designed to help student overcome deficiencies in their writing and to improve writing skills necessary for them to pursue college-level work. In addition, laboratory work is required. A grade of C is the minimum necessary to advance to English 131. Non-transferable and does not count toward an Associate Degree at Texarkana College.

ENG 032 **Developmental Writing** (3,3,0). A course using varied instructional techniques designed to identify deficiencies and to improve basic writing skills necessary for the student who intends to pursue college-level academic work. Laboratory work is required. A grade of C is necessary to pass this course. Non-transferable and does not count toward an Associate Degree at Texarkana College.

ENG 131 **Composition and Rhetoric I** (3,3,0). An intensive study of writing and reading skills, including research techniques. Prerequisite: a satisfactory score on ACT, SAT, or English Placement Test, a C or better in English 032, or a C or better in English 031.

ENG 132 **Composition and Rhetoric II** (3,3,0). A continuation of English 131 with the addition of literary study of short stories, poems, drama, and the novel. A research paper is required. Prerequisite: English 131.

ENG 231 **British Literature I** (3,3,0). A general survey of the literature of Britain from the beginning through the eighteenth century. A chronological study of the principal authors, their works, and the movements pertaining to British literature, with emphasis on writing literary criticism. Prerequisite: English 132.

ENG 232 **British Literature II** (3,3,0). A general survey course composed of a chronological study of the principal authors of Britain during the nineteenth and twentieth centuries, their works, and the trends in British literature, including the study of a British novel. Throughout the course, emphasis will be placed on writing literary criticism. Prerequisite: English 132.

ENG 233 **American Literature I** (3,3,0). A critical study of the major American writers from Edward Taylor through Melville. Emphasis is placed upon the aesthetic values of literature as art and upon literary analysis. Prerequisite: English 132.

ENG 234 **American Literature II** (3,3,0). A critical study of the major American writers from Whitman through Faulkner including a study of the novel, contemporary poetry, and writing literary analysis. Prerequisite: English 132.

ENG 235 **World Literature I** (3,3,0). A study of the classics of western literature from Homer through the early Renaissance and the interrelations of literary form and thought with emphasis on writing literary analysis. Prerequisite: English 132.

ENG 236 **World Literature II** (3,3,0). A study of the classics of the western world from Neoclassical Age to the present and the interrelations of literary form and thought with emphasis on writing literary analysis. Prerequisite: English 132.

ENG 237 **Selected Studies in Literature** (3,3,0). Intensive reading in single areas unified by period, genre, or theme and appropriate writing experience. Present topics—Short Fiction, Classical Mythology or Literature of the American West. May be repeated for credit when topics vary. Prerequisite: English 132, and sophomore standing.

ENG 238 **Creative Writing** (3,3,0). Detailed study of the techniques of writing fiction, reading and analysis of contemporary models, and practice writing of fiction. Focus will be on the short story and the novel. Prerequisites: ENG 131 and ENG 132.

ENG 239 **Technical Writing** (3,3,0). An introduction to technical communication in which rhetorical principles are explained, illustrated, and applied to a variety of assignments in scientific and technical fields. Prerequisite: English 132, and sophomore standing.

RDG 031 **College Reading** (3,3,0). Offered in a laboratory setting, this course is designed to help students improve reading comprehension and speed through the establishment of good reading habits. Special attention will be given to skills involved in reading textbooks and literature, studying, and developing vocabulary.

Fashion Merchandising

FAM 131 **Introduction to Fashion Merchandising** (3,3,0). This course is designed to introduce the student to the world of merchandising. An overview of people, procedures, and concepts unique to fashions and merchandising. The course will stress the importance of personal image and its connection to success in the industry. Introduction to major designers, current trends in fashion, modeling style show production, and men's fashions will be covered.

FAM 132 **Marketing of Fashions** (3,3,0). This course is designed to give the student an overview of the development and present status of our marketing system, to analyze the marketing task, and to examine the major policies that underlie the various activities of fashion marketing institutions. Sales promotion techniques will be discussed.

FAM 133 **Textiles, Colors, Designs** (3,3,0). This course is designed to give the student a background in color coordinates and designs. The history of design and colors will be covered. Basic accessories will be discussed. The students will develop a working fashion vocabulary and grasp an overview of the area of fashion colors and designs. The study of fibers, fabrics, and finishes for application to various type clothing and given designs.

FAM 141 **Developmental Training I** (4,0,20). This will be the laboratory (on-the-job) section of the program and is designed to develop student participation and self-motivation and coordination of fashion problems as well as public relations situations. The seminar section will meet two (2) hours each week and each student will be required to attend. All work situations will be approved by the Fashion Merchandising Instructor-Coordinator. The seminar section will give the student advanced through the courses, more emphasis will be made in the coordination of work experience with the classroom and technical training. Each student will be required to attend twenty (20) hours each week in each of the four (4) sections listed in the course outlined as Development Training.

FAM 142 **Development Training II** (4,0,20). See Development Training I.

FAM 231 **Buying and Merchandising** (3,3,0). This course offers a detailed study of the organizational structure of buying, the external sources of buying information, the fundamentals of effective purchasing, and the buyer's role in planning.

FAM 232 **Promotion and Sales** (3,3,0). The main emphasis of this course is exposure to the processes and actions that promote the sale of merchandise, how they work, and how to evaluate them. A working knowledge of fashion advertising, interior and exterior display, fashion publicity, and special events will be gained. Field trips and guest lectures will supplement this course.

FAM 233 **Math for Marketing** (3,3,0). This course is designed to provide the student with a fundamental understanding of the merchandising elements that effect a reasonable profit performance.

FAM 241 **Development Training III** (4,0,20). See Development Training I.

FAM 242 **Development Training IV** (4,0,20). See Development Training I.

French

FRE 141 **Elementary French I** (4,3,2). A course in the fundamentals of pronunciation, grammar, conversation, and reading.

FRE 142 **Elementary French II** (4,3,2). Prerequisite: French 141, two units of high school French, or an appropriate score on placement test. Continuation of French 141 and reading of simple texts.

FRE 231 **Intermediate French I** (3,3,0). Emphasis on fluent reading and accuracy in oral and written expression. Prerequisite: French 142.

FRE 232 **Intermediate French II** (3,3,0). Increased work in French literature and written expression. Prerequisite: French 231.

FRE 213 **Special Studies in French** (1,1,0). A course based on needs and interests of individual students. Prerequisite: French 142 and permission of the instructor.

FRE 233 **Special Studies in French** (3,3,0). A course based on needs and interests of individual students. Prerequisite: French 142 and the permission of the instructor.

General Related Courses

One or more of the following courses will be taken each 12-week period in the following programs: Auto Body Repair, Auto Mechanics, Heavy Equipment Mechanics, Horticulture, Industrial Electricity, Office Occupations, Refrigeration/Air Conditioning, Small Engine Repair, and Welding. This requirement will be altered only by the Vocational Dean.

GRC 131 **Shop Related Mathematics** (3,5,0). A placement test will be used to determine the level of the student who will be slotted in his given level in fundamental math, which will be related to the given field of his choice. All texts and problems used in this course will be fitted to the individual needs of each student and identified with the trade course being taken.

GRC 231 **Shop Related Mathematics** (3,5,0). Continuation of GRC 131 to levels of algebra and trigonometry as needed in shops.

GRC 132 **Related Communications** (3,5,0). Developmental reading, speaking, and writing. (5 hours per week, 60 hours per term)

GRC 133 **Shop Management and Supervision** (3,5,0). A course in the related education section that services areas involved in running a business. Shop layout, purchase of land and equipment, payroll, personnel functions, administrative functions, etc.

GRC 134 **Applied Drafting** (3,5,0). Use of drafting instruments, symbols, codes, basic lettering and dimensional drawings.

GRC 232 **Related Communications** (3,5,0). Continuation of GRC 132.

Geography

GPY 131 **Principles of Geography** (3,3,0). The study of human society in relation to the physical conditions and the natural resources of the earth. This course should make clear such factors of natural environment as location, climate, relief and forests with emphasis on human response to these factors.

GPY 231 **Local and World Geography** (3,3,0). This course will provide the student with an opportunity to study various peoples in other parts of the world and the relationship of their activities to the physical environment. A major portion of this course will be devoted to a study of the United States and Canada. Student choice of topics will be an integral part of the course.

Geology

GEO 141 **General Physical Geology** (4,3,3). Includes a study of rock and minerals and the processes that shape the external and internal earth such as earthquakes, volcanoes, wind, rivers, tides and land slides.

GEO 142 **General Historical Geology** (4,3,3). Traces the history of the continents, oceans and the life that makes up the planet. Attention is given to the rock and fossil record as it pertains to unraveling the mysteries.

Greek

GRE 131 **Elementary Greek I** (3,3,0). A study of the Koine dialect. The course is an introduction to the forms, rules of grammar, and simple composition of the language.

GRE 132 **Elementary Greek II** (3,3,0). A continuation of GRE 131, with more advanced grammar and reading, including portions of the New Testament. Prerequisite: GRE 131.

GRE 231 **Greek: Reading and Translation I** (3,3,0). A greek interpretation in the Greek New Testament including advanced grammatical study. Prerequisite: GRE 132.

GRE 232 **Greek: Reading and Translation II** (3,3,0). A continuation of GRE 231, based on needs and interests, including advanced grammatical study. Prerequisite: GRE 231.

Hebrew

HEB 131 **Elementary Hebrew I** (3,3,0). A study of the fundamentals of the Hebrew language with emphasis on translation of the Old Testament.

HEB 132 **Elementary Hebrew II** (3,3,0). A continuation of HEB 131 with emphasis on translation and reading. Prerequisite: HEB 131.

History

HST 131 132 **Survey of Western Civilization** (3,3,0). Historical survey of the origin and development of institutional cultural life from earliest times to the present. Movement of universal significance and the continuity of human history are emphasized. The course is designed primarily to stimulate the student's ability to understand modern problems.

HST 133 134 **History of the United States** (3,3,0). Review of political, economic, and social trends. First semester: History of the United States to 1877. Second Semester: History of the United States from 1877 to the present.

HST 231 **History of Texas** (3,3,0). A history of Texas from the Spanish Period to the present day. Stress will be placed upon geography and the environment, the period of Anglo-American settlement, the Revolution, the Republic, and the development of the modern state. (This course is recommended for all education and history majors.)

Home Economics

HEC 234 **Nutrition** (3,3,0). A study of basic principles of nutrition in health and disease. The modern concept of an adequate diet based upon nutritional needs of the individual is stressed. Open to nursing students as an elective, but is not required for the associate degree. Prerequisite: None. Required for the Physical Fitness Technology program.

Journalism

Journalism courses at Texarkana College seek to give a practical foundation in basic communication skills necessary for admittance to a senior college major or minor program in journalism. As elective courses for non-majors, journalism serves as an outlet for creative talent and school service through the production of its major publication: the weekly newspaper, TCCampus News.

JRN 111
112
211
212

Journalism Practicum (1,0,5). Supervised practice and instruction in journalism, advertising sales, newspaper layout, newspaper management, publication. Students will work on the TCCampus News staff. Required for all journalism classes except JRN 131.

JRN 131 **Introduction to Mass Communications** (3,3,0). This course is a survey of the media of mass communications as well as an examination of the evolution of today's concepts in mass communication.

JRN 231 **News Writing and Reporting I** (3,3,0). A study of the gathering and reporting of news is the emphasis of this course. The whole range of the reporter's work is covered by lecture and actual practice with the students working as reporters for the campus newspaper. Practicum is required.

JRN 232 **Reporting II** (3,3,0). Continuation of Journalism 231 with a comprehensive study of copy editing for errors of fact and interpretation of English and newspaper style. Emphasis is placed on more complex stories and more specialized types of stories. Headline writing, and proof reading are introduced. Practicum is required.

JRN 233 **News Editing** (3,3,0). A study of the editing process for newspapers and newsmagazines. Emphasis placed on grammar, style, tone and the use of newspaper technology as it applies to the editing process. (News judgements stressed.) Students will serve as copy writers and editors of the TCCampus News. Practicum is required.

Mathematics

MTH 031 **Basic Mathematics** (3,3,0). Arithmetic operations on the whole numbers, arithmetic operations on fractions, decimals, percentages, ratios, and proportions. Designed to strengthen arithmetic skills. No prerequisite. Non-transferable and does not count toward an Associate Degree at Texarkana College.

MTH 130 **Elementary Algebra** (3,3,0). Sets, logic, fundamental processes, linear and quadratic equations, graphs, exponents, radicals, and complex numbers. Designed for those students who have had only one year of high school algebra. (Non-transferable)

MTH 131 **College Algebra** (3,3,0). Quadratics, permutations, combinations, inequalities, partial fractions, determinants, functions, and graphs, polynomials, and systems of equations. Prerequisite: Algebra I and Algebra II in high school, or MTH 130.

MTH 132 **Plane Trigonometry** (3,3,0). Sets, ordered relations, number intervals, trigonometric functions, radian measure, variations and graphs of the functions, solution of right triangle and applications, trigonometric identities, equations, and inverse functions, general triangle and complex numbers. Prerequisite: Two years of high school algebra or MTH 131.

MTH 133 **Concepts of Math I** (3,3,0). The study of mathematical applications in business, life, science, and social science. Topics in this course include set theory, systems of linear equations, matrices, linear inequalities and linear programming, mathematics of finance, elementary probability theory, and topics in probability. Prerequisite: Two years of high school algebra or MTH 131 or MTH 130 and instructor approval.

MTH 134 **Elementary Statistics** (3,3,0). Collection and tabulation of data, bar charts, graphs, mean, standard deviation variance, dispersion correlation, index numbers, normal curve and other distributions, and applications of probability to various fields. Prerequisite: Algebra I in high school.

MTH 135 **Modern Mathematics I** (3,3,0). Recommended for elementary education majors. Modern symbols, elementary set theory, logic, introduction to the structure of the real number system and its sub-systems, elementary number theory, systems of numeration, and number sentences. No Prerequisites.

MTH 136 **Analytic Geometry** (3,3,0). Coordinates and loci, the straight line, transformation of co-ordinates, the circle, tangents, equations of loci, parametric equations, polar coordinates, properties of the conic sections, transcendental curves. Prerequisite: Mathematics 131 and 132 or Division Approval.

MTH 137 **Modern Mathematics II** (3,3,0). A continuation of Mathematics 135 with the application of fractions and rational numbers, decimals and real numbers, mathematical systems, concepts of inequalities, functions, systems of equations, complex numbers, and elementary geometry. Prerequisite: MTH 135.

MTH 230 **Concepts of Math II** (3,3,0). The study of calculus for business and economics. Topics in this course include pre-calculus algebra review, differential calculus for functions of one variable, exponential and logarithmic functions, applications of the derivative, the definite integral, techniques of integration, and indefinite integrals. Prerequisite: Two years of high school algebra or MTH 131.

MTH 231 **Calculus** (3,3,0). Variables, functions, limits, derivatives, and differentials. Differentiation and integration of algebraic, sine and cosine functions. Mean Value Theorem. Applications. Prerequisite: Math 136 or in parallel or Division Approval.

MTH 232 **Calculus** (3,3,0). Differentiation and integration of transcendental functions, improper integrals, approximate integration, centroids, and hyperbolic functions. Prerequisite: Math 231.

MTH 233 **Calculus** (3,3,0). Vectors and equations, centroids, moments of inertia work, partial derivatives, series, multiple integrals, indeterminant forms, ordinary differential equations, applications. Prerequisite: Math 232.

MTH 234 **Linear Algebra** (3,3,0). Finite dimensional vector spaces, linear transformations, matrices, quadratic forms, eigen values, eigen vectors, vector spaces over complex numbers. Prerequisite: MTH 131 and MTH 132.

MTH 235 **Differential Equations** (3,3,0). Solutions with applications of linear equations of first order, linear equations with constant coefficients, linear equations with variable coefficients, linear equations with regular singular points. Existance and uniqueness of solution to first and second order equations. Prerequisite: MTH 232 and permission of instructor, or MTH 233.

Mid-Management

MGT 131 **Principles of Management** (3,3,0). Introduction to the basic elements of management. Explores areas of policy, organization structure, control procedures, leadership, and business objectives. Prerequisite: Concurrent enrollment in MGT 141 or consent of instructor.

MGT 132 **Personnel Management** (3,3,0). Management-employee relationships orientated toward the personnel responsibilities of all managers. The course is designed to provide techniques involving labor relations, understanding people, communicating, and building an effective working team. Prerequisite: Concurrent enrollment in MGT 142 or consent of instructor.

MGT 133 **Personal Selling** (3,3,0). Goes into basic steps in selling and then advances into areas including analyzing customer behavior, product knowledge, and special skills in selling.

MGT 135 **Purchasing Management** (3,3,0). This course is a Mid-Management elective course designed to survey the practices used in sound purchasing policies. This will include a study of procurement, finance, expediting, transportation rates, inventory control, value analysis, and other current purchasing concepts and practices.

MGT 141 142 **Management Training** (4,0,20). Supervised employment in the student's chosen field. Intended to provide practical experience for students preparing for careers in business management. Prerequisite: Concurrent enrollment in approved Management program or consent of instructor.

MGT 230 **Women in Management** (3,3,0). This is an elective course in Mid-Management designed for working women. Basic management skills are covered as well as assertiveness, office politics, stress and time management, dressing for success, and ethics in business.

MGT 231 232 **Seminar** (3,3,). A seminar in basic elements in management including the nature of management, planning, directing, controlling, organizing, and management development. Prerequisite: MGT 131-132; concurrent enrollment in MGT 241-242 or consent of instructor.

MGT 235 **Principles of Marketing** (3,3,0). A study of the role marketing plays in our economy. Special areas in pricing, market places, consumer motivation, and distribution of goods.

MGT 236 **Advertising and Display** (3,3,0). Review of material used in persuasive communication. Includes insights into human behavior and how methods stimulate buying. Familiarizes the student with putting on a promotional program.

MGT 237 **Supervision** (3,3,0). A class directly related to practices that lead to most effective production by employees. Involves working in a team, training, handling grievances, and other human factors.

MGT 238 **Human Relations** (3,3,0). A study of the procedures to develop good human relations in working with people. Course develops leadership qualities and techniques. Helps those in class to better understand themselves and the people they work with.

MGT 239 **Production Management** (3,3,0). A study of all aspects of production to include plant location and layout analysis, materials, handling systems, preproduction planning, the production process, maintenance analysis, production and inventory control. This course is designed as an overview of the entire production entity.

MGT 241
242 **Management Training** (4,0,20). Continuation of supervised employment in the student's chosen field. Intended to provide increased supervisory responsibility for students preparing for careers in business management. Prerequisite: MGT 141-142; concurrent enrollment in MGT 231-232 or consent of instructor.

MUSIC

Band and Orchestral Instruments

MUS 1131
1132
2133
2134 **Wind Instruments** (1,1,1). Individual instruction in instruments for students who are not instrumental majors. Correct tone production, embrouchure, fingerings for the various instruments. Includes both solo literature and technical work. One half-hour lesson per week with one hour of practice daily.

MUS 1231
1232 **Wind Instruments** (2,1,1). Individual instruction of instrument music majors. A progressive course using Arban, Klose and allied technical studies for the individual student. All major and minor scales, suitable solo material to acquaint the student with both the instrument and the literature for that instrument. Two half-hour lessons weekly, two hours practice daily.

MUS 2233
2234 **Wind Instruments** (2,1,1). Same as above except a continuation on the sophomore level using more advanced solo and technical studies to progress towards an advanced level.

MUS 1171
1172
2173
2174 **Percussion** (1,1,1). Individual instruction in all percussion instruments, including mallet instruments for students who are not instrumental majors. Includes both solo literature and technical work from the standard repertory such as Hashell, Harr, Moeller, etc.

MUS 1271
1272
2273
2274 **Percussion** (2,1,1). Individual instruction in all percussion instruments, including mallet instruments for students who are Percussion majors. Includes more advanced solo literature and technical work from the standard repertory such as Harr and Moeller, etc.

MUS 110
210 **Study of Strings** (3,1,0). This course is offered for those who wish to learn to play and teach violin, viola, cello and bass. Three hours of lecture and practice are required. Required of music education majors. This is a two-semester course.

MUS 1141
1142
2143
2144 **Strings** (1,1,1). Individual instruction in violin, viola, violoncello, double bass, or guitar for students who are not string majors. Suitable solo and technical literature from the standard repertory will be used. One half-hour lesson per week with one hour of practice daily.

MUS 1241
1242 **String** (2,1,1). Individual instruction in violin, viola, violoncello, double bass, or guitar for string majors working toward a Music Degree. Suitable solo and technical literature from the standard repertory will be used. Two half-hour lessons per week with two hours of practice daily.

MUS 2243
2244 **Strings** (2,1,1). Same as above except a continuation on the sophomore level using more advanced solo and technical studies to progress towards an advanced level.

Music majors and minors must participate in a major ensemble each se they are enrolled in the music department.

Major Ensembles

MUS 1161
1162
2163
2164 **Choir** (1,3,0). The Texarkana College Choir makes local and regional appearances. Open to all students with the approval of the director. Responsibility for public appearances is necessary for membership. Each course carries one hour credit.

MUS 1191
1192
2193
2194 **Band** (1,3,0). The band performs as a concert band during the school year. Open to all students with approval of the director. To be eligible for spring semester activities, a student must participate in both fall and spring semesters or have special permission of the director. This course is required for all instrumental majors.

Minor Ensembles

MUS 1181
1182
2183
2184 **Vocal Ensemble** (1,3,0). The TC Singers is composed of superior voices selected by the director. This group performs as a single unit as well as in conjunction with concert choir appearances.

MUS 1101
1102
2103
2104 **Stage Band** (1,3,0). Meets regularly through the year and performs standard and special arrangements from the popular and dance idiom. Prerequisite: Satisfactory tryout.

Music Education

MUS 222 **Introduction to Piano Literature and Methods Through Improvisation** (2,1,1). This course includes a survey of current methods using improvisation. Materials and practices as a foundation for improvising of extemporaneous playing will be stressed. ALL STUDENTS PREPARING TO TEACH IN THE PIANO PREPARATORY DIVISION MUST REGISTER FOR THIS COURSE.

MUS 137 **Music Education** (3,3,0). An elementary course in the Fundamentals of Theory as applied and taught in the elementary grades of the public schools. Emphasis is placed on rhythm, scales, intervals, chords, terms, and keys. This course is not open to music majors.

MUS 138 **Music Education** (3,3,0). Detailed study of the methods and objectives of school music and selection of materials for each grade. Emphasis is placed on the preparation and presentation of lessons by individual students. This course is not open to music majors. Prerequisite: MUS 137.

MUS 213
214 **Study of Woodwinds** (1,2,0). This course is offered for those who wish to learn to play and teach clarinet, saxophone, oboe, bassoon, flute, and piccolo. Three hours of lecture and practice are required. Required of music education majors.

MUS 113
114 **Study of Brasses** (1,2,0). This course is offered for those who wish to learn to play and teach cornet, baritone, trombone, french horn, and bass. Required of music education majors. Three hours of lecture and practice are required.

MUS 127
128
227
228 **Class Voice** (2,1,1). The course will provide studies for increasing the power, range and quality in vocal production. Composition from the standard repertory will be performed by individual class members. Two hours per week including lecture and laboratory and two hours practice required each week.

MUS 119 **Vocal Diction** (1,1,1). The course will provide for molding the pronunciation of lyrics in the principal singing languages. Emphasis on the international phonetic system will be stressed.

MUS 125
126
225
226 **Class Piano** (2,1,1). This course introduces the beginning student to fundamental keyboard technique. The course is designed for non-music major but will also satisfy the music major applied piano requirement for all music students except piano majors or advanced pianists. The music major will work toward the requirements for a barrier exam.

MUS 115
116
217
218 **Class Piano** (1,1,0). This course is designed for the music major or non-music major who has had previous private piano instruction. Improvisational, functional skills, repertoire and pedagogical techniques are covered.

Music History and Literature/Appreciation

MUS 133 **Music Appreciation** (3,3,0). This course is designed for anyone who wishes a broader knowledge of the great music of civilization. Emphasis will be placed on listening and enjoying music of the masters. Open to all students without prerequisite.

MUS 134 **Music Literature** (3,3,0). A survey dealing with the principal forms from the Ars Antiqua, Ars Nova, Renaissance, Baroque, and Classic Periods.

MUS 135 **Music Literature (continued)** (3,3,0). A survey dealing with the principal forms of the late Classic, Romantic, Impressionistic, and Contemporary periods.

Music Theatre

MUS 1115, 1116, 2115, 2116 **Music Theatre** (1,0,3). This course is designed to give the actor and singer practical experience in music theatre. A study of the integration of music, acting, and staging. The student may pursue this study for four semesters with one credit hour per semester. The course will serve as opera workshop for music majors and minors. No prerequisite necessary.

Music Theory

MUS 022 **Choral Conducting** (2,2,0). This course is designed to prepare the student to direct a choral organization. Basic conducting patterns and general choral literature will be presented. Open to all students without prerequisite.

MUS 030 **Selected Studies in Church Music** (3,3,0). This course is designed to develop an understanding of church choral music and to introduce the student to a broad selection of church music. A broad sampling of major choral works, general anthems and seasonal music will be presented. Open to all students without prerequisite.

MUS 031 **Elements of Music I** (3,3,2). A preparatory, non-transferable non-credit course for students who have made unsatisfactory scores on the music placement tests. A course designed to overcome obvious deficiencies in the rudiments of music and aural skills.

MUS 032 **Elements of Music II** (3,3,2). Continuation of MUS 031.

MUS 131 **Elementary Harmony** (3,3,0). An introduction to elementary harmony including a study of scales, intervals, major and minor triads, with inversion and application. Part writing of figured bass exercises and melodic harmonizations requiring the principal triads. Prerequisite: Satisfactory score on placement test or MUS 041.

MUS 111 **Elementary Sight Singing and Ear Training** (1,1,2). Singing in the treble and bass clefs, introduction to alto and tenor clefs, major and minor scales, melodies with harmonic backgrounds of the principal chords. Aural study of beats, their division and subdivisions, intervals and melodies, harmonic progressions of the principal chords. Keyboard application of theory. THIS COURSE MUST BE TAKEN IN CONJUNCTION WITH MUS 131.

MUS 132 **Elementary Harmony** (continued) (3,3,0). Part writing of figured bass exercises and harmonic backgrounds of all diatonic triads, the dominant seventh and supertonic seventh chords and non-harmonic tones. Enlargement of the period in melodic composition. Prerequisite: MUS 131 and MUS 111.

MUS 112 **Elementary Sight Singing and Ear Training** (continued) (1,1,2). Singing melodies with harmonic backgrounds of all diatonic triads, the dominant seventh and supertonic seventh chords. Aural study of syncopation, intervals and melodies with any diatonic harmonic background, diatonic harmonic progression including the dominant seventh and supertonic seventh chords. Keyboard application of theory. THIS COURSE MUST BE TAKEN IN CONJUNCTION WITH MUS 132.

MUS 231 **Advanced Harmony** (3,3,0). Part-writing of figured diatonic seventh chords and modulations, styles of writing other than chorals. Prerequisite: MUS 132 and MUS 112.

MUS 211 **Advanced Sight Singing and Ear Training** (1,1,2). Singing modulations to closely related keys, modal melodies. Aural study of superimposition, compound intervals, melodic and harmonic modulation. All diatonic seventh chords. Keyboard application of theory. Prerequisite: MUS 132 and MUS 112. THIS COURSE MUST BE TAKEN IN CONJUNCTION WITH MUS 231.

MUS 232 **Advanced Harmony** (3,3,0). Part writing of figured diatonic seventh bass exercises and melody harmonization requiring altered chords, 9th, 11th, and 13th chords. Modulation to remote keys. Styles of writing other than the chorale style. Analysis of the larger forms of composition. Prerequisite: MUS 231 and MUS 211.

MUS 212 **Advanced Sight Singing and Ear Training** (continued) (1,1,2). Singing remote modulations and more difficult melodies. Aural study of unusual and mixed meters, remote modulation, altered chords, 9th, 11th, and 13th chords. Keyboard application of theory skills. Prerequisite: MUS 231 and MUS 211. THIS COURSE MUST BE TAKEN IN CONJUNCTION WITH MUS 232.

Organ

MUS 1151
1152
2153
2154

Applied Organ (1,1,1). This course is designed for students who are not organ majors. Although this is a less concentrated course than MUS 1251-1252; 2253-2254 similar literature will be used.

MUS 1251
1252

Applied Organ (2,1,1). This course is designed for the music major with organ and major instruments. Students desiring to study organ should have studied piano previously and should have attained technical proficiency equivalent to MUS 1211. One hour lesson per week with a minimum of two hours of practice per day is required. The minimum representative requirements in repertory are these:

Gleason: Method of Organ Playing
Manual Technique; Pedal Techniques
Composition for Manuals
Studies and Compositions for Manua' ıd Pedal

Bach: Eight Little Preludes and Fugues
Works from Orgelbuchlein
Works comparable in difficulty to
Cathedral Prelude and Fugue

Easy compositions by modern American and foreign composers. The student shall perform for jury each semester the requested numbers, and perform in a recital at least once each semester.

MUS 2253
2254

Applied Organ (2,1,1). This course is designed for the music major with organ as major instrument. It is a continuation of MUS 1251, 1252 and with the minimum representative requirements are these:

Gleason: Method of Organ Playing
Pedal Exercises; Pedal Scales
Compositions for Manuals and Pedal

Bach: Preludes and Fugues of appropriate difficulty
Works from Orgelbuchlein
Works from Schubler Chorals

Brahms: Choral Preludes

Franch: Cantabile, Piece Heroique
Words from forerunners of Bach as well as compositions by modern American and foreign composers.

Piano

MUS 1111 1112 2113 2114 **Applied Piano** (1,1,1). This course is designed for students who are not piano majors. The course includes the study of suitable technical studies, major and minor scales (M. M. 112) trans-I IV V I chord progression in all keys, sight reading, simple transposition, suitable compositions of Bach, Scarlatti, Clementi, Kuhlau, Mozart, Haydn, Beethoven, Romantic, Impressionistic, and Contemporary composers. One half-hour lesson per week with a minimum of one hour practice daily.

The student shall attend a practice performance each week and perform in a recital at least once each semester. The student shall perform for jury each semester the requested numbers by memory.

MUS 1211 1212 **Applied Piano** (2,1,1). This course is designed for the music major with piano as major instrument. The minimum requirements are: Hanon, Czerny or other approved studies, all major and minor scales at various rhythms (M. M. 112), arpeggios in root position. Bach—Three part inventions, and Well Tempered Clavier, Sonatas of Mozart, Haydn or Beethoven, music of Chopin, Schubert, Schumann, Brahms or other Romantic composers; literature of the Impressionist and Contemporary composers. One hour lesson or two half hour lessons per week and a minimum of two hours practice daily.

The student shall attend a practice performance each week and perform in a recital at least once each semester. The student shall perform for jury each semester the requested numbers by memory.

MUS 2213 2214 **Applied Piano** (2,1,1). This course is designed for the music major with piano as major instrument. The minimum requirements are: All major and minor scales in parallel and contrary motion in various rhythms at (M. M. 112) all major and minor arpeggios in all positions. Bach—Well Tempered Calvier or French Suites; Sonatas by Haydn, Mozart, Beethoven, suitable literature from Chopin, Schumann, Brahams, or other approved Romantic composers; literature of the Impressionistic and Contemporary composers. One hour lesson or two half hour lessons per week with a minimum of two hours practice daily.

The student shall attend a practice performance each week and perform in a recital at least once each semester. The student shall perform for jury each semester the requested numbers by memory.

Synthesizer

MUS 11S1
11S2
12S1
12S2

Synthesizer (1,1-2,1,1) Private lessons in electronic music synthesizer. Will study standard literature such as Cage, Babbitt and Carlos realizations. The student will become familiar with components of the music keyboard synthesizer and the results of interaction of oscillators, filters, envelope, ring modulator sequencer, and control of all parameters. No prerequisite, open to all students. Ability to read music not necessary.

MUS 21S1
21S2
22S1
22S2

Synthesizer (1,1,1-2,1). Private lessons in electronic music synthesizer. Will study standard literature such as Cage, Babbitt, and Carlos realizations. The student will become familiar with components of the music keyboard synthesizer and the results of interaction of oscillators, filters, envelope, sequencer, ring modulator, and control of all parameters. No prerequisite, open to all students. Ability to read music not necessary.

DAN 110

Introduction to Folk Dance (1,0,2). This course is designed for anyone desiring a broader knowledge of America's folk dance culture or the traditional dances of other countries. Body movement and actual folk dancing will be stressed chronologically from early dance styles to disco.

VOICE

MUS 1121
1122
2123
2124

Applied Voice (1,1,1). (Non-Major) These courses will consist of one half-hour lesson each week with a minimum of four hours practice each week. The student will study the principles of vocal production and progress to exercise, and studies of increased difficulty. Examples from standard repertory will be included in the six memorized songs required for each semester. Performance on recitals and jury are required for each semester as well.

MUS 1221
1222

Applied Voice (2,1,1). (Voice Major) Two half-hour lessons each week with a minimum of six hours practice each week. The courses will provide studies for voice placement, support and flexibility. Repertory will include early Italian classics, English songs, and contemporary songs. Performance on recitals and jury required each semester.

MUS 2223
2224

Applied Voice (2,1,1). (Voice Major) Two half-hour lessons each week with a minimum of eight hours practice each week. The courses will provide studies of increased variety and skill. Repertory will include arias from opera and oratorio, German lieder, and French songs.

Professional Nursing Program (ADN)

NUR 111 **Math for Nurses** (1,1,0). This course will provide the student with various kinds of mathematical problems applicable to nursing situations: ratios, fractions, percentages, decimals, apothecary and metric systems, and household measurements. The student will have opportunity to become familiar with and use appropriate equipment such as syringes and calibrated medical cups. Prerequisite: none.

NUR 181 **Fundamentals of Health and Illness I** (8,4,12). NUR 181 is designed to provide beginning students an intellectual base for socialization into the nursing profession, and a holistic foundation for the practice of nursing as an integral component of health care. The evolution of nursing, nursing organizations, the code of ethics, standards of practice, and patterns of nursing education are introduced. Philosophy and conceptual framework of the Texarkana College Associate Degree Nursing program will be discussed. Emphasis is placed upon the continuum of health and the nurse as a facilitator of optimum health. The student will develop basic skills in utilizing the nursing process to the internal/external environment. NUR 181 focuses on the skills utilized by the nurse in enabling an individual to maintain activities of daily living.
This course also provides a foundation in basic nutrition, pharmacology (historical developments, terminology, and legislation), care of the surgical client, and principles relating to the administration of oxygen.
All students successfully completing NUR 181 will be granted a Nurse Aid Certificate. This may be used for employment purposes. Prerequisites: NUR 111, ENG 131, PSY 231, BCLS. Corequisite: BIO 145.

NUR 141 **Nursing in Health and Illness I** (4,2,6). This course is designed for first year nursing students and focuses upon biological, psychological and sociological concepts as applicable to basic needs of the childbearing family, including the newborn. Emphasis is upon use of the nursing process in maintenance of wellness, care when illness does occur, and individual and family development tasks. Concepts of mental health, pharmacology, nutrition, technical skills and standards of nursing practice are threaded throughout the course. Prerequisites: NUR 111, NUR 181, BIO 145, PSY 231, ENG 131, BCLS. Corequisites: BIO 146, PSY 235, NUR 142.

NUR 142 **Nursing in Health and Illness II** (4,2,6). This course is designed for the first year nursing student. Using the holistic approach, the student will apply concepts to the care of the client with psychological disorders. Emphasis is upon nursing responsibilities in prevention, intervention, and rehabilitation. The nursing process and therapeutic use of self will be applied to the clients and their significant others. Threaded throughout the course are mental health concepts, technical skills, pharmacology, nutrition, and standards of nursing practice. Prerequisites: NUR 111, NUR 181, BIO 145, PSY 231, BCLS. Corequisites: BIO 146, PSY 235, NUR 141.

NUR 253 **Nursing in Health and Illness III** (5,2.5,7.5). This course is designed for the second year nursing student. Emphasis is upon application of holistic concepts and the nursing process for care of the child and adult in need of surgical intervention and those with a fluid and electrolyte imbalance (including intravenous therapy), gastrointestinal and accessory digestive organ disturbances. Concepts of mental health, nutrition, pharmacology, technical skills, and standards of nursing practice are threaded throughout this course. Prerequisites: NUR 111, NUR 181, NUR 141, NUR 142, BIO 145, BIO 146, BIO 242, ENG 131, SPE 131 or 133, PSY 231, PSY 235. Corequisites: NUR 254, SOC or PSY Elective (3 hr.).

NUR 254 **Nursing in Health and Illness IV** (5,2.5,7.5). This course is designed for second year nursing students. Emphasis is upon application of holistic concepts and the nursing process for care of the child and adult following acute and chronic disorders common to our society: endocrine and respiratory systems and cancer. Concepts of mental health, technical skills, nutrition, pharmacology, and standards of nursing practice are threaded throughout this course. Prerequisites: NUR 111, NUR 181, BIO 242, PSY 231, PSY 235. Corequisites: NUR 253, SOC or PSY Elective (3 hrs.).

NUR 255 **Nursing in Health and Illness V** (5,2.5,7.5). This course is an advanced course designed for second year nursing students. Emphasis is upon using the holistic concepts and nursing process to take care of the child and adult client with orthopedic, ear, eye, neurological, emergency and integumentary disorders. Concepts of mental health, technical skills, nutrition, pharmacology and standards of nursing practice are threaded throughout the course. Prerequisites: NUR 111, NUR 181, NUR 141, NUR 142, BIO 145, BIO 146, BIO 242, PSY 235, PSY 231, ENG 131, SPE 131 or 133, SOC or PSY Elective (3 hr.), NUR 253, NUR 254. Corequisites: NUR 256, NUR 217, NUR 218.

NUR 256 **Nursing in Health and Illness VI** (5,2.5,7.5). This is an advanced course designed for the second year nursing student. Using the holistic approach and the nursing process, the student will apply biological, psychological, and sociological concepts to the care of the ill adult or child with complex, renal, gynecological, cardiovascular, peripheral vascular, hematological disorders. Concepts of mental health, nutrition, pharmacology, technical skills and standards of nursing practice are threaded throughout the course. Prerequisites: NUR 111, NUR 181, NUR 141, NUR 142, ENG 131, BIO 145, BIO 146, PSY 235, SPE 131 or 133, BIO 242, BUR 235, NUR 254, SOC or PSY Elective (3 hr.). Corequisites: NUR 255, NUR 217, NUR 218.

NUR 217 **Graduate Orientation** (1,0,2.5). the focus in this course is upon comprehensive clinical performance. the student will practice various approaches to the delivery of nursing care on selected units of health care facilities. This course will enable the student to integrate interpersonal competency, conflict resolution, communication and management concepts appropriate for the technical nurse in the work subculture, allowing the student to plan, provide and evaluate nursing care, for herself and other workers based on assessment of the biological, psychological and sociological needs of clients, self-evaluation and peer evaluation. Corequisites: NUR 218, NUR 255, NUR 256.

NUR 218 **Nursing Trends** (1,1,0). This course emphasizes the study of nursing as a profession. It is designed to enable students opportunity to examine current trends in society that affect nursing and exploration value systems in reference to those trends. Focus is on concepts of reality shock, conflict resolution, and the use of education, credentialing and accreditation in protecting the public's right to safe care. Corequisites: NUR 217, NUR 255, NUR 256.

Nursing Transition

NUR 121 **Nursing Transition** (2,1,3). This course is designed for Licensed Vocational/Practical Nurses who are beginning clinical courses in the Associate Degree Nursing Program. Emphasis is upon the transition from vocational to associate degree nursing practice and the resultant change in role.

The focus of the course is upon maintenance of health and care of the childbearing family and the newborn. Previous knowledge is built upon with emphasis given to the utilization of the nursing process to provide individualized nursing care based on biological, sociological, and psychological theory. Concepts of mental health, pharmacology, nutrition, technical skills and standards of nursing practice are threaded throughout the course.

Vocational Nursing

NUV 130 **Medical Vocabulary.** This course introduces the vocational nursing student to the meaning, pronunciation, spelling, abbreviations and etymology of medical and other terms. It is designed to increase comprehension and application of many words used in the medical field. 20 clock hours.

NUV 131 **Vocational Adjustments I.** Introduction to nursing; nursing ethics, legal aspects, personal hygiene, licensing and nursing associations and publications. Minimum of 10 clock hours of lecture.

NUV 132 **Micro.** Basic microbiology for understanding importance of maintaining cleanliness and disinfection in relation to prevention of disease, disease control and communication health resources. Minimum of 16 clock hours of lecture.

NUV 133 **Fundamentals of Vocational Nursing.** Basic nursing concepts; nursing techniques, beginning experiences in application of theory in a hospital setting. Minimum of 378 clock hours of lecture and clinical experience.

NUV 134 **Pharmacology.** Weight systems; calculation of dosages; introduction to basic classification of drugs. Minimum of 50 clock hours of lecture.

NUV 135 **Nutrition.** Basic normal nutrition and nutrients required for maintaining health. Introduction to basic hospital diets. Minimum of 26 clock hours of lecture.

NUV 136 **Anatomy and Physiology.** Basic anatomy and physiology as a background for nursing skills and other subjects. Minimum of 50 clock hours of lecture.

NUV 137 **Pediatric Nursing.** Provides basic principles of nursing care for the ill child. It focuses upon biological, psychological and sociological concepts, individual and family development tasks, and the dynamics of changing roles. Concepts of mental health, pharmacology, nutrition, nursing process and technical skills are threaded. Minimum of 40 clock hours of lecture.

NUV 231 **Maternal Nursing.** Normal pregnancy through labor and delivery to post-partum and newborn care, inclusive of complications, physical, emotional and spiritual needs, effects of drugs and diet, and congenital anomalies. Minimum of 168 lab hours.

NUV 232 233 **Medical-Surgical Nursing.** Nursing of conditions of illness for adults requiring medical and/or surgical treatment, inclusive of physical, emotional and spiritual needs. Incorporation of specific drug and diet therapy. Minimum of 580 clock hours of lecture and lab. Includes aspects of first aid, geriatrics and mental health-mental illness.

NUV 234 **Vocational Adjustments II.** This course is designed to assist the student in making transition from the role of a student to that of a licensed vocational nurse. Minimum of 10 clock hours of lecture.

NUV 235 **Graduate Comprehension.** This course allows the student to identify and measure their ability to use the nursing process to synthesize vocational nursing knowledge. As the last class before graduation, emphasis is upon a change from student to graduate role to solve nursing situations. 40 clock hours.

BCLS One and two man CPR, infant resuscitation, and management of upper airway obstruction will be taught according to standards of the American Heart Association. 15 clock hours.
An American Heart Association Certification card will be awarded upon successful completion along with a certificate for 1.0 CEU's from TC. Satisfactory completion requires attendance at all classes, 84% passing rate on the written test, and 100% success with skill performance.

Office Occupations and Secretarial Careers

OFO 130 **Professional Development.** Teaches development of successful work habits and personality traits for the professional secretary. Topics include: self-image, business dress and posture, securing a job, and adjusting and growing on the job. (60 clock hours)

OFO 131 **Elementary Typewriting.** Mastery of the keyboard of the touch method; a study of basic machine operation and care of the typewriter. Corrective and accuracy drills are presented along with the development of proper typewriting techniques. An introduction to the typing of letters and simple problems in centering and tabulating are included. (120 clock hours)

OFO 132 **Intermediate Typewriting.** A course designed to develop both speed and accuracy. Study includes special problems in letter arrangement, tabulated reports, problems in centering, rough drafts, and manuscript writing. (120 clock hours)

OFO 134 **Word Processing/Machine Transcription I.** A new efficient approach to the duties of the traditional secretary. This is affected through the use of up to date, automated equipment and specialization and centralization of secretarial duties. The course includes theory, and practical exercises to develop proficiency in the operation of display and non-display text-editing equipment. (60 clock hours)

OFO 137 **Office Practice I.** Study of the business office: etiquette, filing, handling of mail, business forms, office equipment and supplies, development of personality through human relations in business, and obtaining a high degree of professionalism in the office. Telephone techniques, records management, handling mail, and securing employment will be stressed. (120 clock hours)

OFO 138 **Office Machines.** Functions and operation of electronic calculators, ten-key adding machines, and printing calculators, for solving fundamental arithmetic computations as they apply to business. (60 clock hours)

OFO 139 **Graphic Arts I.** Functions and operation of office printing machines, mineograph machines, spirit duplicators, charts and graphs. (60 clock hours)

OFO 231 **Advanced Typewriting.** An advanced course in typewriting with special emphasis on business correspondence, legal reports, telegrams, and other business forms, and various duplicating processes. (60 clock hours)

OFO 232 **Word Processing/Machine Transcription II.** This is a continuation of OFO 134. This quarter there will be a heavy concentration of setting up various applications on work processing equipment for mail out production. Includes use of math capabilities of document presentation. (60 clock hours)

OFO 233 **Elementary Accounting.** An introduction to accounting in which the principles of double-entry bookkeeping are studied. Emphasis is given to each phase of the accounting cycle as the principles are applied to the single proprietorship type of business organization. (120 clock hours)

OFO 261 **Selected Studies in Office Occupations.** Advanced study in typing, shorthand, and/or accounting as needed with consent of instructor. Emphasis will be placed on terminology and skill needed in specialized areas such as the legal or medical professions. An internship can be developed by the instructor depending on the level of the student for this quarter. (360 clock hours)

ORNAMENTAL HORTICULTURE*

OHC 161 **Ornamental Horticulture I** (6,5,25). Includes orientation, landscape plant materials and horticulture chemicals; the ornamental trees, evergreen trees, shade trees, fruit and nut trees. Identification and classification of various commonly used landscape trees and their landscape application. Selection and use of ground covers and selected flowers for ornamental landscaping. Also included is the study of the use and application of chemical insecticides, fungicides, herbicides, plant hormones, and fertilizers. State and federal regulations on various horticulture chemicals will be stressed.

OHC 162 **Ornamental Horticulture II** (6,5,25). Includes general horticulture, herbaceous and tropical plants, and landscape maintenance. Growth, structure, development, maintenance, and use of ornamental horticulture plants. Propagation principles, green house production, and practice in propagation techniques. Identification and application of certain tropical type plants in the development and growth stages along with general designs and use of herbaceous and tropical plants in specialized areas for effects in ornamental landscaping will also be studied. Introduction to grounds maintenance. Trees, shrubs, ground covers, flowers, turf, and equipment. Actual grounds maintenance is performed and demonstrated in laboratory training.

OHC 163 **Ornamental Horticulture III** (6,5,25). Includes greenhouse horticulture, nursery operations, landscape fundamentals and design, and greenhouse crop production. Designed to demonstrate the design and use of greenhouses and their application to plant growth and control. Designs and layout of a nursery, land and equipment requirements. Plants, land maintenance, irrigation, transfer of plants, and marketing will be stressed. Concepts and practices used in preparing landscape plans, specifications,and cost estimates. Basic principles of landscape design including the proper selection of plants for commercial and residential applications. Plant material normally grown as greenhouse crops, with emphasis on bedding plants, baskets, foliage plants and floral crops.

OHC 164 **Ornamental Horticulture IV** (6,5,25). Includes ornamental crop production, landscape management, and horticulture pest control. Selected for pot plant production and field production as well as nursery and greenhouse crop production. Advanced instruction and study in landscape business operation and the application of landscape principles and practices. Industry structure, management and salesmanship. Introduction to common pests and methods of control. Special emphasis placed upon greenhouse grown crops.

*FCI Only

Philosophy

PHL 131 **Philosophy 131** (3,3,0). A survey course designed to acquaint the student with some of the fundamental problems in philosophy and with methods used to deal with them. Some principal views, both ancient and modern, are examined as possible solutions.

PHL 231 **Philosophy 231** (3,3,0). An examination of the relationship of philosophical ideas to the community with emphasis on concepts of natural rights, justice, education, freedom, and responsibility.

Physical Education

C — Co-educational Physical Education
L — Physical Education Lecture Course
M — Men's Physical Education
W — Women's Physical Education

PHE 010C **Beginning Sailing** (1,2,0). This course includes the fundamentals in rigging and securing small crafts, introduction to nautical terms, care of equipment, and learning to sail.

PHE 012C **Beginning Racquet Sports** (1,2,0). Fundamentals and instructions of basic skills in racquet sports specifically designated each semester.

PHE 110C **Skating** (1,2,0).

PHE 111C **Bowling** (1,2,0)

PHE 111L **First Aid** (1,1,1). The American Red Cross Standard First Aid Course fulfills requirements for Red Cross Certificate. Required of students with doctor's certification of disability. This course may be elected by any student, but may not be used in lieu of activity courses for those physically able. 1 hour per week.

PHE 112C **Tennis** (1,2,0).

PHE 112L **First Aid** (1,1,1). The American Cross Advanced Course. Requirements and restrictions are the same as the PHE 111L. 1 hour per week.

PHE 112M **Weight Training** (1,2,0).

PHE 112W **Weight Training (Women)** (1,2,0).

PHE 113C **Golf** (1,2,0).

PHE 114C **Badminton** (1,2,0).

PHE 114W **Swimming** (1,2,0). A course for beginning swimmers. Designed to overcome fear and acquaint the student with the four basic strokes.

PHE 115C **Archery and Table Tennis** (1,2,0).

PHE 116C **Scuba Diving** (1,2,0).

PHE 117C **Swimming and Conditioning** (1,2,0). This course includes basic stroke work and is recommended for students who are interested in taking lifeguard, scuba, and sailing courses.

PHE 118C **Karate** (1,2,0).

PHE 119C **Volleyball** (1,2,0).

PHE 121C **Personal Fitness** (2,3,0). The student's physical conditions is assessed by a graded exercise tolerance test using a treadmill with EKG readings as a pre-test. Implementation of different activities, including mini-lectures are designed to improve a student's desired level of fitness. A post-graded exercise tolerance test is given to measure improvements attained during the class.

PHE 131L **Foundations of Physical Education** (3,3,0). This course is designed as a professional orientation into the major field of physical education, health and recreation. Its contents comprise a brief history, philosophy, modern trends of physical education, teacher qualifications, vocational opportunities, expected competencies, and skill testing.

PHE 132L **Health Concepts** (3,3,0). A course which deals with the principles of personal and community health which includes nutrition, drugs and narcotics, mental health, causes and prevention of diseases, marriage and the family, safety, fitness, and community health problems and service.

PHE 133L **Sports Officiating** (3,3,0). A study of the rules of various sports along with practice in officiating for football, basketball and volleyball. This course will only transfer as an elective.

PHE 210C **Advanced Volleyball** (1,2,0).

PHE 211C **Water Aerobics** (1,2,0). Aerobic workout set to music and performed in the pool. Designed to improve the strength, tone, flexibility and endurance of your skeletal muscles by using movements against the water's resistance. Also, to develop circulatory/respiratory endurance.

PHE 213C **Competitive Racquet Sports** (1,2,0). A course that consists of competition and tournament play in the following sports: tennis, badminton, and racquetball. Students should have a basic knowledge of the rules and skills that apply to these three racquet sports.

PHE 214C **Tennis (intermediate and advanced)** (1,2,0).

PHE 216C **Fitness Maintenance** (1,2,0). Follow-up course to Personal Fitness. An exercise program for continuing your personal workouts. Prerequisite: PHE 121C

PHE 217C **Scuba Diving (advanced)** 1,2,0).

PHE 218C **Rhythmic Aerobics** (1,2,0). Aerobic workouts to allow the student through movement to music to gain the aerobic training effects on the body.

PHE 219C **Racquetball** (1,2,0). The rules and skills for racquetball will be taught. Emphasis will be on developing skills.

PHE 222C **Emergency Water Safety and Lifeguard Training** (2,2,0). This course includes Advanced Life Saving, CPR, First Aid, and pool maintenance. (A Red Cross certified lifeguard course.)

PHE 223C **Water Safety Instructors** (2,3,0). The American Red Cross Water Safety Instructors' Certificate may be granted upon the students' satisfactory completion of the course.

PHE 231L **Elementary Physical Education** (3,3,0). A course designed to study the contents of a program in physical education for the elementary grades. Organization and methods of teaching progressions of elementary activities are taught and practiced.

Physical Fitness Technology

PFT 131 **Physiology of Exercise** (3,3,0). How the heart and lungs function at rest and during exercise. How the body adjusts to exercise and the limitations one might have based on size, age, health and previous training. Prerequisite or concurrent enrollment: BIO 145.

PFT 132 **Methods of Cardiovascular Assessment** (3,3,0). To give cardiovascular assessments and to diagnose abnormalities, muscle flexibility, oxygen capacity and grip strength assessments. Prerequisite or concurrent enrollment: BIO 145.

PFT 133 **Survey of Weight Control and Management Techniques** (3,1,3). To use a computer to analyze current weight loss techniques for the purpose of counseling persons on diets. Prerequisite or concurrent enrollment: BIO 145.

PFT 161 **Internship** (6,1,20). This section of the program will be a hands-on type with each student being assigned differing tasks in a health club setting. The student will become aware of the usages of each piece of exercise equipment. The student will do "live" testing of health club members to determine their individual needs and limitations. The student will be given extensive training in the methods and problems in stress related pieces of equipment.

Physical Science

SCI 141 **Physical Science** (4,3,3). A survey of the principles of physics, astronomy, geology, and weather. The material is integrated where possible. (Three hours lecture, three hours lab per week)

SCI 142 **Physical Science** (4,3,3). A survey of chemistry and environmental pollution. (Three hours lecture, three hours lab per week)

Physics

PHY 141 **General Physics** (4,3,3,). Designed primarily for students such as pre-medical, pre-pharmacy, geology, and architecture, who do not expect to do additional work in engineering or physics. Elementary vector algebra, mechanics, heat, thermodynamics and sound. Prerequisite: MTH 131, MTH 132, or concurrent enrollment.

PHY 142 **General Physics** (4,3,3). Electricity and magnetism, light, and modern physics. Prerequisite: PHY 141 or Permission of Instructor.

PHY 243 **Technical Physics I** (4,3,3,). Designed primarily for students of engineering, physics, the physical sciences, or anyone needing a more mathematically rigorous physics course. Topics will include vector algebra, mechanics, heat, and sound. Prerequisite: MTH 231. Co-requisite: MTH 232.

PHY 244 **Technical Physics II** (4,3,3). Topics include electricity, magnetism, light, atomic and nuclear phenomena, and modern physics. Co-requisite: MTH 232.

Political Science

PSI 231 **State and Federal Constitutions** (3,3,0). A study of the United States and Texas constitutions. The political institutions of Texas government are emphasized, including political parties, interest groups, legislature, governor, bureaucracy, judiciary, and local government. This course satisfies the statutory requirements for teacher certification. Sophomore standing recommended.

PSI 232 **American Government** (3,3,0). A study of American national government with emphasis upon the Congress, the Presidency, and the federal courts. Additional emphasis upon bureaucracy, criminal procedure, civil liberties, political parties, and voting behavior. Sophomore standing recommended.

PSI 233 **Introduction to Public Administration** (3,3,0). Survey of American public administration at the national, state, and municipal levels with emphasis upon theories of organization and management, executive leadership, policy formation, fiscal policy, personnel practices, and public relations. Pre-requisite: PSI 232 recommended.

Printing

PTG 161 **Introduction to Printing.** Topics covered in Introduction to Printing will include keyboarding for cold type composition, integrating type setting, methods to prepare copy for printing. Methods of layout and design, letter press typography, and offset camera and stripping will be studied. (360 clock hours including related courses.)

PTG 162 **Fundamentals of Printing I.** In this quarter students will study elementary offset presswork, learn how to prepare hard copy, develop paper and metal plates to run on the press. More advanced layout and design will be taught. How to accomplish ruling proportional copy and development of business forms. (360 clock hours.)

PTG 163 **Fundamentals of Printing II.** This course is a continuation of PTG 162, and will include advanced camera work, equipment maintenance, binding, and air brush techniques. (360 clock hours.)

PTG 164 **Printing Internship.** Since the latest high tech equipment is used in various locations in our community, this course is designed to put a student in "line" situations both on and off campus to provide unique experiences. A portion of the course will be the development of printing "job" as outlined by the instructor. (360 clock hours.)

Psychology

PSY 111 **Freshman Orientation and Adjustment** (1,1,0). This course is designed to serve as a group study approach to student problems. Course content will evolve out of student interests and needs. Areas of study are adjusting to college, use of library, acquiring basic study skills, improving your personality, making a wise vocational choice. Emphasis will be placed upon active student participation in group activities and self-study. This course is required of all entering freshmen taking 12 or more hours, and the class meets for the first six weeks of semester only.

PSY 231 **Introduction to Psychology** (3,3,0). A study of the basic principles in psychology bearing on growth, motivation, learning, drives, emotions and similar aspects of human behavior.

PSY 232 **Psychology of Adjustment** (3,3,0). This course is a presentation of psychological principles which are fundamental to personal and social adjustment.

PSY 234 **Applied Psychology** (3,3,0). A survey of the applications of psychological knowledge and methods in various fields including education, medicine, law enforcement, social work, corrections, and business with an emphasis on the manner in which crises can be effectively met.

PSY 235 **Human Growth and Development** (3,3,0). The study will concern the physical, mental, and emotional characteristics of the individual from conception throughout the life-span. Specific topics will include: basic theories and research in developmental psychology; parent-child relationships; identification — peer relations, self-concepts; language learning — perceptual and cognitive development. Course will give special focus to crises which occur as persons live out their lives.

PSY 236 **Social Psychology** (3,3,0). Theories of individual behavior in the social environment are surveyed. Topics include the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Prerequisite: PSY 231 or SOC 131.

PSY 237 **Child Psychology** (3,3,0). A study of the principles of child care, child development, and early childhood learning. This course presents in systematic fashion the known facts about children—all children—as these facts have been discovered by educators, psychologist, pediatricians, anthropologists, and many others who have devoted themselves to the scientific study of child behavior. Prerequisite: none; PSY 231 recommended.

Radio/Television Production Technology

This clock hour program at Texarkana College is designed to train aspiring employees for the radio and television market in our area. This certificate program will emphasize skills in running a live radio station which includes on air time, news gathering and reporting, technical skills in areas of cataloging, taping commercials, sports newscasting,and other lab type situations to prepare a student in a three quarter certificate program.

RTV 161 **Introduction to Radio/Television Production.** This first quarter will emphasize survey material of the jobs required to operate a radio station. Students will learn announcing and newscasting responsibilities, codes of ethics, job markets in broadcasting, styles of diction, operation of a console, and other pre-production skills.

RTV 162 **Station Management and Operation.** In the second quarter students will study functions and managerial skills required to operate a commercial radio station. This includes job descriptions, sales, billing, public relations, FCC rules. The student will also be introduced to television production labs, closed circuit T.V., telecommunications programs, and cable services for television.

RTV 163 **Radio/Television Internship.** This final course in Radio/Television Production is under the supervision of the instructor and local employers so that the student can get "hands on" experience in the radio/television community.

Real Estate

RLE 131 **Principles of Real Estate** (3,3,0). A general introduction to real estate as a business and as a profession; designed to acquaint the student with a broad range of subjects necessary to the practice of real estate. Topics will include: Overview of licensing procedures, distinctions between personal and real property, legal descriptions, contracts and law of agency, titles and conveyancing, deeds, finance, encumbrances and liens, appraisals, closing, math of Real Estate, ethics of practice, fair housing practices, equal credit, and community reinvestment.

REL 132 **Real Estate Practice (Brokerage)** (3,3,0). A continuation of Real Estate 131 designed to add a practical application to Real Estate principles. It emphasizes the practice of law of agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control, real estate firm analysis and expansion criteria. Prerequisite: RLE 131.

RLE 133 **Real Estate Finance** (3,3,0). A survey of the financial availability of Real Estate financing including, but not limited to, monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs, loan applications, processes and procedures, closing costs, alternative financial instruments, equal credit opportunity acts, community reinvestment act, and state housing agency. Prerequisite: RLE 131.

RLE 134 **Real Estate Law** (3,3,0). A practice study related to the normal real estate transactions including the following: Legal concepts of real estate, land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of titles. Prerequisite: RLE 131.

RLE 135 **Real Estate Appraisal** (3,3,0). A survey of basic Real Estate appraisal. Designed to introduce procedures in the central purposes and functions of an appraisal, social and economic determinant of value, cost, market data and income approaches to value estimates, final correlations, and reporting. Also, a study of practical problems and cases in real estate will be explored. Prerequisite: RLE 131.

RLE 136 **Real Estate Marketing** (3,3,0). This is a more in depth study of marketing concepts as they apply to Real Estate sales. This would also include techniques in professionalism and ethics, characteristics of successful salesmen, time management, psychology of marketing, listing procedures, advertising, negotiating and closing, financing, and the Deceptive Trade Practices-Consumer Protection Act. Prerequisite: RLE 131.

RLE 137 **Real Estate Law-Contracts** (3,3,0). Course content includes a review of general contract law requirements. Coverage of the purposes, history and working process of the Broker-Lawyer Committee will be emphasized. Commonly used form will be the target of practical exercises. Satisfactory preparation of all promulgated contract forms is to be accomplished.

RLE 232 **Real Estate Management** (3,3,0). An introduction to the management of several types of income producing real estate properties. Included is role of property manager, landlord policies, operational guidelines, leases, lease negotations, tenant relations, maintenance, reports, habitability laws, and the Fair Housing Act. Also, an overview of collecting revenues, record-keeping, advertising, insurance, leases and taxes. Prerequisite: RLE 131.

RLE 233 **Real Estate Investment** (3,3,0). An introduction to Real Estate investment opportunities. Areas of investment include individual, joint, syndication, or group ownership, techniques of investment analysis, time-valued money, discounted and non-discounted investment criteria, leverage, tax shelters depreciation, and applications to property tax. Prerequisite: RLE 131.

Religion

REL 131 **The Old Testament** (3,3,0). A course designed to introduce the student to the Old Testament writings and to provide an understanding of the history, institutions,and theological insights of the Hebrew Nation.

REL 132 **The New Testament** (3,3,0). A course designed to introduce the student to the New Testament writings and to an appreciative understanding of the life and teachings of Jesus Christ and of the early Christian movement.

REL 231 **Comparative Religions** (3,3,0). A survey of the principle religions of the world with an emphasis on the religions of the United States. Important features of each religion will be studied and compared.

Secretarial Science

SEC 131 **Elementary Typewriting** (3,3,1). Mastery of the keyboard of the touch methods; a study of basic machine operation and care of typewriter. Corrective and accuracy drill are presented along with the development of proper typewriting techniques. An introduction to the typing of letters and simple problems in centering and tabulating are included.

SEC 132 **Intermediate Typewriting** (3,3,1). A course designed to develop both speed and accuracy. Study includes special problems in letter arrangement, tabulated reports, problems in centering, rough drafts, and manuscript writing. Prerequisite: SEC 131 or one year of typewriting in high school.

SEC 233 **Advanced Typewriting** (3,3,0). An advanced course in typewriting with special emphasis on office simulations, business correspondence, legal reports, telegrams, and other business forms, and various duplicating processes. Prerequisite: SEC 132 or two years of typewriting in high school.

SEC 133 **Office Machines** (3,3,0). Development of functional knowledge and skills in the use of the electronic display calculator and the ten-key mechanical and electronic printing calculators.

SEC 134 **Beginners' Shorthand** (3,3,1). An introductory course in principles of Gregg Shorthand, Diamond Jubilee System. Presentation of theory with extensive practice in reading and writing. Open to students who have not had previous instruction in shorthand. Prerequisite: Typewriting skill or concurrently enrolled in SEC 131.

SEC 135 **Intermediate Shorthand** (3,3,1). A course for students who have had previous instruction in shorthand. Emphasis is placed on dictation and transcription as well as vocabulary building and development of speed. Transcription acceptable for mailing is required. Prerequisite: SEC 134 or consent of instructor.

SEC 138 **Office Practice and Procedures** (3,3,0). A course designed for students who are interested in clerical or secretarial work. Development of an employable personality and proper work habits, office mail, telegrams, shipping service, telephone techniques, receptionist's duties, banking and financial duties, systems of filing, planning for a professional future, and an introduction to the automated or electronic office procedures. Assignments are given under typical office situations as nearly as possible. Prerequisite: SEC 131 or two years of typing in high school.

SEC 139 **Word Processing I** (3,3,1). Covers the theory and logic involved in basic operation of display text editing equipment and performance of projects to develop proficiency-level skills. An introduction to Word Processing theory concepts are also covered. Prerequisite: SEC 131.

SEC 236 **Advanced Dictation and Transcription** (3,3,0). Continued speed building with stress placed on rapid and accurate transcription of business letters acceptable for mailing. Special attention is given to advanced phrasing and to meet requirements for civil service examination.

SEC 237 **Machine Transcription** (3,3,0). Business letters and communications from a variety of professions and industries are transcribed from recording machines. Development of skill in rapid, accurate, mailable transcripts. Training and efficient use of dictating and transcribing equipment. Co-Requisite: SEC 132 or equivalent.

American Sign Language

ASL 131 **American Sign Language I** (3,3,0). Introductory course in American Sign Language. Includes fingerspelling, vocabulary, syntax, history of deaf education, background information on manual communication, oralism, and total communication.

ASL 132 **American Sign Language II** (3,3,0). Advanced course in American Sign Language. Emphasis on vocabulary expansion, a study of English idioms, American Sign Language idioms and basic interpreting.

Small Engine Repair

SER 161 **Basic Shop Practices** (6,5,25). A study of shop procedures, use of hand tools, measuring devices, theory of internal combustion engines both two and four cycle. Introduction to reconditioning of small engines such as lawnmowers, edgers, and tillers.

SER 162 **Small Engine Application** (6,5,25). Continuation of SER 161. Advance study into internal parts application for related small engines such as outboard motors, motorcycles, and other small engines. Included are ignition systems, fuel systems, and lubrication systems. Lab application comparable to small engine repair center.

SER 163 **Commercial Applications for Small Engines** (6,5,25). Continuation of SER 162. Advanced study in commercial small engines and repairs, small parts, clean-up systems, portable power units, and other commercial applications. Advanced study in accessory or auxiliary repairs connected with small engine servicing and maintenance.

Sociology

SOC 131 **Principles of Sociology** (3,3,0). A general introduction into the behavior of individuals in social groups, particularly a study of important phases of life as culture, population, institutions, social control, and the major social processes. Analysis of the simpler relations of daily living as illustrative material.

SOC 231 **Social Problems** (3,3,0). Survey of some of the major difficulties to which American society is seeking adjustment. A detailed analysis of courses, social significance, and constructive programs pertinent to difficulties. One problem to be selected for intensive study. Prerequisite: SOC 131 or sophomore standing.

SOC 232 **Marriage and Family** (3,3,0). Study of the marriage relationships; events and attitudes leading to it; problems and experiences arising from it; development of a philosophy regarding marriage and family life. Prerequisite: Sophomore standing or permission of the instructor.

Spanish

SPN 141 **Elementary Spanish I** (4,3,2). Instruction three hours a week in the classroom; two hours a week in the language laboratory. Emphasis on listening comprehension, pronunciation, grammar, and conversation.

SPN 142 **Elementary Spanish II** (4,3,2). Continuation of Spanish 141 with instruction three hours a week in the classroom and two hours a week in the language laboratory. Prerequisite: Spanish141, two units of high school Spanish, or an appropriate score on placement test.

SPN 231 **Intermediate Spanish I** (3,3,0). Emphasis on fluent reading and accuracy in oral and written expression. Prerequisite: Spanish 142.

SPN 232 **Intermediate Spanish II** (3,3,0). Increased work in Spanish literature and written expression. Prerequisite: Spanish 231.

SPN 213 233 **Special Studies** (1,1,0 - 3,3,0). Special studies in Spanish based on interests of individual students. Prerequisite: Spanish 142 and permission of the instructor.

Speech

SPE 111, 112, 113, 114 **Speech Practicum** (1,3,0). A study of forensic activities for performance and competition. Laboratory practice in debate, oration, oral interpretation, extemporaneous speaking, and discussion. Majors and minors are required to enroll each semester.

SPE 131 **Public Speaking I** (3,3,0). A basic course in the study of effective communications through speech. Emphasis is placed upon content, organization, and delivery of speeches for various purposes and occasions.

SPE 132 **Public Speaking II** (3,3,0). A study of various types of speeches, election and organization of materials with emphasis on the art of persuasion. Advanced laboratory work in group discussion and speaking. Prerequisite: Speech 131

SPE 133 **Business and Professional Speech** (3,3,0). Fundamentals of oral communications; study of special types and techniques of speeches most common to business and professional people; practice in business situations; oral reports; sales talks. Panel and committee discussions, and special occasion speeches.

SPE 134 **Voice and Phonetics** (3,3,0). A study of the voice mechanism and the International Phonetic Alphabet in order that the student may improve vocal performances and correct careless and ineffective speech habits. Required of speech majors.

SPE 135 **Oral Interpretation** (3,3,0). A study of the techniques of effective oral reading. Attention is given to pitch, pronunciation and articulation. Practical experience in Readers Theatre Productions. Prerequisite: none.

Welding

WEL 161 **Basic Acetylene Cutting and Arc Welding** (6,5,25). Orientation, safety, operation,and maintenance of oxyacetylene and arc-welding equipment. Electric arc-welding in all positions on mild steel plate using 6010 electrode. Metal preparation using manual and automatic oxyacetylene equipment.

WEL 162 **Electric Arc Welding** (6,5,25). All position V-groove carbon steel plate welding with open stringer using 6010 and 7018 electrodes. Cutting, metal preparation using manual and automatic oxyacetylene equipment.

WEL 163 **Electric Arc Welding** (6,5,25). Up-hill pipe welding, Bell-hole welding, horizontal pipe welding on mild steel pipe with various sizes and types of electrodes appropriate to the types of welding taught are used. ASME testing. (30 clock hours per week. 360 hours per term).

WEL 164 **Bell-Hole and Horizontal Pipe Welding** (6,5,25). Bell-hole ad horizontal pipe welding on high carbon pipe with various sizes and types of electrodes appropriate to the type of welding being taught, stick electrodes, stainless steel, pipe welding. (30 clock hours per week, 360 hours per term).

WEL 165 **Special Welding** (6,5,25). Metal inert gas (mig), mild steel, stainless steel, alloy metal, TIG (tungsten) gas welding on aluminum, stainless steel, and alloy metal on pipe and plate. (30 clock hours per week, 360 hours per term).

WEL 166 **Advanced Welding** (6,5,25). Up-hill and Down-hill pipe welding, using both stick electrode and MIG heli-arc stringer. (30 clock hours per week, 360 per term).

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