

# Texarkana College

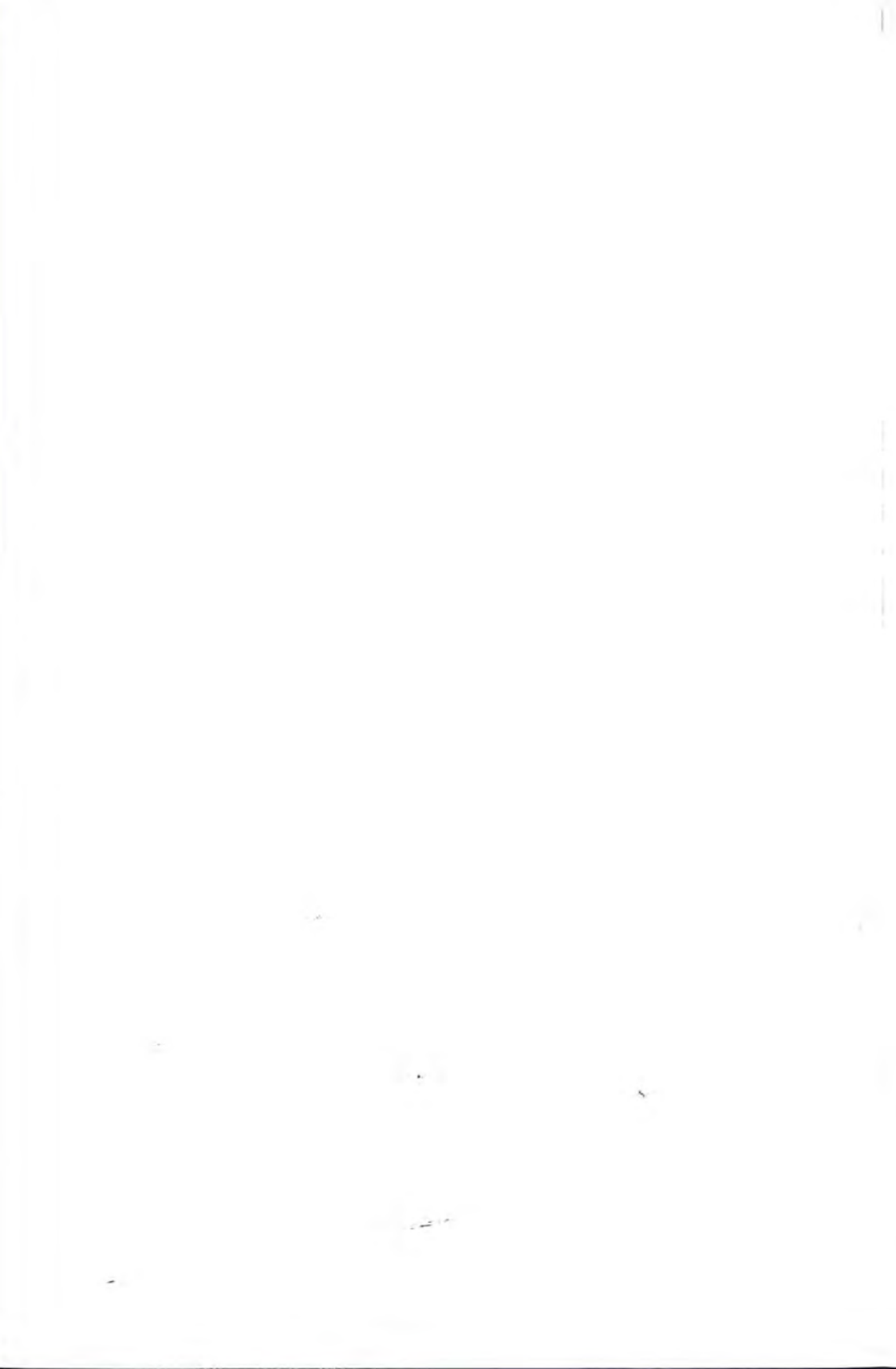
## 2001 - 2002 Catalog



go there.

start here.





# *Texarkana College*

2500 North Robison Road  
Texarkana, Texas 75599  
(903) 838-4541  
FAX (903) 832-5030  
<http://www.tc.cc.tx.us>

## **APPROVED AND ACCREDITED\***

by

The Association of Texas Colleges  
The Southern Association of Colleges and Schools  
The Texas Education Agency  
The Texas Higher Education Coordinating Board  
Texas State Board of Nurse Examiners  
National League for Nursing Accrediting Commission  
Texas Association of Music Schools  
Texas Board of Vocational Nurse Examiners

## **MEMBERSHIP**

in

The Southern Association of Junior Colleges  
National Junior College Athletic Association  
Texas Association of Junior Colleges  
National Commission on Accrediting  
Texas Association of Collegiate Registrars and Admissions Officers  
Northeast Texas Junior College Baseball Conference  
American Council on Education  
Texas Junior College Speech and Theatre Association  
Texas Music Educators Association  
Texas Association of Art Schools  
American Technical Education Association, Inc.  
National League for Nursing  
National Organization for Associate Degree Nursing

## **AN EQUAL EDUCATIONAL OPPORTUNITY INSTITUTION**

It is the policy of Texarkana College not to discriminate on the basis of sex, disabilities, race, color, age or national origin in its educational and vocational programs, activities or employment as required by Title IX, Section 504 and Title VI. The Texarkana College campus is accessible to the disabled.

This catalog contains policies, regulations, and procedures which were in existence as the publication went to press. The College reserves the right to modify or amend any statements or policy to reflect current board policies, administrative regulations or procedures and applicable state or federal laws and regulations.

\*Verification of the various accreditations held by the College are on file in the Office of the President. Texarkana College is accredited by The Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees and certificates. The Southern Association of Colleges and Schools • 1866 Southern Lane • Decatur, Georgia 30033-4097 • (404) 679-4501.

**TEXARKANA COLLEGE  
BOARD OF TRUSTEES  
2001-2002**



Dr. Walter C. Barnes, Jr.



Mr. Frank McClain



Mr. Cecil Phillips



Mr. Borden E. Bell, Jr.



Mr. Vasco McCoy



Judge Edward Miller



Mr. C. A. Mitchell



Mr. Connor Patman



Mr. Ben Sandefur

## PRESIDENT'S MESSAGE

"If I had eight hours to chop down a tree, I'd spend six hours sharpening the ax."

So said Abraham Lincoln--profound words.

The college experience is, well . . . ax sharpening. Except it's one's mind that's being sharpened rather than an ax. The point, however, remains the same. If one uses the time spent in college wisely--sharpening the mind, honing skills and character and work ethic. . . then the job at hand afterwards becomes so much . . . sooooo much easier. If, on the other hand, one chooses to attack life with a dull ax . . . well . . .

Time well spent--not just spend--but **WELL** spent in one's college years can turn out a chainsaw!

Now, since you've no choice . . . you've got to go into the woods, would you rather go with a dull ax--or a chainsaw?

That choice **IS** yours.

**Carl M. Nelson, Ed.D.**

*President*



By the way, for those of you older students who are returning to college after beating about life with a dull ax, I have another quote for you.

"You can't turn back the clock . . . but you can wind it up again."

Texarkana College--a great place to start--or start over.

# *Texarkana College*

## ACADEMIC CALENDAR 2001-2002

### SUMMER SESSIONS 2001 DAY & EVENING CLASSES

#### First Summer Session

June 4	Classes Begin
June 28	Last Day to Drop Classes
July 4	July 4th Holiday
July 5	Last Day of Classes

#### Second Summer Session

July 9	Classes Begin
August 2	Last Day to Drop Classes
August 9	Last Day of Classes

#### FALL 2001

August 27	Day and Evening Classes Begin
September 3	Labor Day Holiday
October 19	Mid-Semester
November 16	Last Day to Drop Classes/Fall Graduation Deadline
November 21-23	Thanksgiving Holidays
December 17-20	FINAL EXAMS

#### SPRING 2002

January 21	Martin Luther King Holiday
January 22	Day and Evening Classes Begin
March 15	Mid-Semester
March 18-22	Spring Holidays
April 19	Last Day to Drop Classes/Graduation Deadline
May 13-16	FINAL EXAMS
May 21	Graduation
May 27	Memorial Day Holiday

### SUMMER SESSIONS 2002 DAY & EVENING CLASSES

#### First Summer Session

June 3	Classes Begin
June 28	Last Day to Drop Classes
July 3	Last Day of Classes
July 4	July 4th Holiday

#### Second Summer Session

July 8	Classes Begin
Aug. 2	Last Day to Drop Classes
Aug. 8	Last Day of Classes

- DEMR 1416** **Basic Hydraulics** (4,2,9). Fundamentals of hydraulics including components and related systems.
- DEMR 1421** **Power Train I** (4,1,8). Introduction to fundamentals, repair, and theory of power trains including clutches, transmission, drive shafts, and differentials. Emphasis on inspection and repair.
- DEMR 1442** **Power Train Applications I** (4,2,10). In-depth coverage of mechanics and theory of power trains. Emphasis on disassembly, inspection, and repair of power train components.
- DEMR 1449** **Diesel Engine II** (4,1,8). An in-depth coverage of disassembly, repair, identification, evaluation, and reassembly of diesel engines.
- DEMR 2334** **Advanced Diesel Tune-up and Troubleshooting** (3,1,8). Advanced concepts and skills required for tune-up and troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics with a common sense of approach.
- DEMR 2381** **Cooperative Education - Diesel Engine Mechanic and Repairer** (3,1,20). Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience.
- DEMR 2540** **Advanced Power Applications II** (5,1,8). Extended applications of power train with emphasis on testing and evaluation of components.

\*This is a semester hour program based on 12 week quarters.

### Drafting Technology

- DFTG 1309** **Computer Aided Drafting I** (3,2,2). An introduction to basic computer-aided drafting. Emphasis is placed on drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; as well as input and output devices. Corequisite: ENGR 1304.
- DFTG 1310** **Structural Drafting** (3,2,2). Discussion and preparation of detail drawings of structural shapes for fabrication with emphasis on framed and seated connectors and beam and column detailing. Designed to meet the standards of the American Institute of Steel Construction, including units on concrete detailing conforming to American Concrete Institute standards. Prerequisites: ENGR 1304 and DFTG 1309.



- DFTG 1344**     **Pipe Drafting** (3,2,2). A study of pipe fittings, symbols, specifications and their applications to a piping process system. This application will be demonstrated through the creations of symbols and their usage inflow diagrams, plans, elevations, sections, and isometrics. Drawings will be prepared in both single and double line representations. Prerequisites: ENGR 1304 and DFTG 1309.
- DFTG 1348**     **Topographical Drafting** (3,2,2). A course in map drafting. Emphasis is given to plotting of surveyor's field notes, plotting elevations, contour drawings, plan and profiles, laying out traverses, right of way maps, highway plan and profiles, cross-sections, and cut/fill drawings. Co-requisite: ENGR 1304.
- DFTG 1352**     **Intermediate Computer Aided Drafting** (3,2,2). A continuation of practices and techniques used in basic computer-aided drafting emphasizing batched files, scripted files, customized program menus, and extracted attributes. Introduction to three dimensional drafting. Prerequisite: DFTG 1309.
- DFTG 1391**     **Special Topics in Drafting** (3,2,2). This course will meet the need of students to be trained in the preparation of machine drawings and cover related topics including size and geometric dimensioning and tolerancing, tools, gear drawings and cutting data, cam profiles and displacement diagrams, fasteners and other standard components. Prerequisite: ENGR 1304.
- DFTG 1393**     **Special Topics in Civil/Structural Drafting** (3,2,2). The study of the techniques and materials of light residential construction. The preparation of detailed working drawings covering plot plans, foundation plans and details, floor plans, elevations, sections, cabinetry, and electrical/HVAC plans is a part of the course. Prerequisites: ENGR 1304 and DFTG 1309.
- DFTG 2332**     **Advanced Computer Aided Drafting** (3,2,2). This course includes the exploration of the use of system customization for drawing production enhancement, principles of data manipulation, presentation of advanced applications, such as three-dimensional objects creation and linking graphic entities to external non graphic data. Prerequisite: DFTG 1352.
- DFTG 2366**     **Practicum or (Field Experience) Drafting** (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, there effects on the view features, dimensioning, tolerancing, and other specifications on a drawing. This course will include experiences in the workplace. These experiences will relate the workplace to the student's course of study. This course will be the capstone experience of the Drafting Technology Program. Prerequisite: Approval of instructor.



## Drama

- DRAM 1120** **Drama Practicum** (1,0,3). A study in dramatic activities for performances and competition including: set, costume, and lighting construction for all departmental productions. This course covers practical application of practice in one-set plays for spring competition. Drama majors and minors are required to enroll each semester.
- 1121**
- 2120**
- 2121**
- DRAM 1310** **Introduction to the Theater** (3, 3, 0). A general survey of the major fields of dramatic art examined through historical perspective. Emphasis is placed on the various types and styles of plays, playwrights, elementary theory and practice of acting and directing, scenery and staging techniques, design, lighting, and costuming. This course is for drama majors and non-majors, and satisfies the Fine Arts Humanities requirements.
- DRAM 1330** **Stagecraft** (3, 3, 3). A beginner's course in the art and crafts of the theater, costuming, scene design and construction, lighting and makeup. Students will gain practical experience working with one-act plays and major productions. Three hours lab.
- DRAM 1351** **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, and improvisation practices in scenes from plays. Students will gain practical experience in working with college productions.
- DRAM 1352** **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 1351 - Acting I or permission of the instructor.
- DRAM 2336** **Theater Speech** (3, 3, 0). A study of and practice in using the actor's voice. Includes breath control, articulation-enuciation-pronunciation, projection, and phonetics. This course would be helpful to any student wishing to improve vocal performances and correct careless and ineffective speech habits. Required of drama majors.

## Drug and Alcohol Abuse Counselors Program

- DAAC 1304** **Pharmacology of Addiction** (3,3,0). Psychological, physiological, and sociological effects of mood altering substances and behaviors and their implications for the addiction process are discussed. Emphasis is placed on the pharmacological effects of tolerance, dependency/withdrawal, cross addiction, and drug interaction. This course was formerly ALDC 1305.



- DAAC 1307**     **Addicted Family Intervention (3,3,0).** An introduction to the family as a dynamic system focusing on the effects of addiction pertaining to family roles, rules, and behavior patterns. Discusses the impact of mood altering substances and behaviors and therapeutic alternatives as they relate to the family from a multicultural and transgenerational perspective. **This course was formerly ALDC 2302.**
- DAAC 1311**     **Counseling Theories (3,3,0).** An introduction to major theories of various treatment modalities including Reality therapy, Psychodynamic therapy, grief therapy, Client-centered therapy, Rational-Emotive Therapy, cognitive-behavioral approaches such as life skills training, behavior modification, and the introduction to experiential therapies as they relate to detoxification, residential, outpatient, and extended treatment. **This course was formerly ALDC 2402.**
- DAAC 1314**     **Dynamics of Group Counseling (3,3,0).** An introduction to the patterns and dynamics of group interactions across the life span. Focus includes group therapy, structure, types, stages, development, leadership, therapeutic factors, the impact of groups on the individual, group growth, and behavior. Effective group facilitation skills and techniques used to address special population issues and needs are covered. Effective case management and record keeping are addressed. **This course was formerly ALDC 2403.**
- DAAC 1317**     **Basic Counseling Skills (3,3,0).** This course is designed to facilitate development of the basic communication skills necessary to develop an effective helping relationship with clients. Includes the utilization of special skills to assist individuals, families, or groups in achieving objectives through exploration of a problem and its ramifications; examination of attitudes and feelings; consideration of alternative solutions; and decision making. **This course was formerly ALDC 1304.**
- DAAC 1319**     **Introduction to Alcohol & Other Drug Addictions (3,3,0).** Causes and consequences of addiction as they relate to the individual, family, community, and society are discussed. Response alternatives regarding intervention, treatment, education, and prevention are reviewed. Competencies and requirements for licensure in Texas are explained. Addiction issues related to diverse populations are presented. **This course was formerly ALDC 1301.**



- DAAC 1391**     **Legal and Ethical Issues for Addiction Professionals (3,3,0).** The study of legal and ethical issues that relate specifically to substance abuse counseling, such as federal confidentiality law: 42 CFR part 2. Includes an in-depth look at professional issues, including clients' rights, moral imposition by the counselor, and the conflict between laws and ethics. This includes identifying counselors' values and examining the implications of personal morals vs. professional ethics. Also includes a study of the codes of ethics from TCADA and other mental health professions. **This course was formerly ALDC 1303.**
- DAAC 1441**     **Counseling Alcohol & Other Drug Addictions (4,3,1).** This course will focus on special skills and techniques in the application of counseling skills for the Alcohol and Other Drug (AOD) client. Design and utilization of treatment planning using a treatment team approach will be introduced. Confidentiality and ethical issues will be reviewed and practiced.
- DAAC 2466**     **Practicum (or Field Experience) - Alcohol/Drug Abuse Counseling (4,1,28).** Practical general training and experiences in the workplace. The college, with the employer, develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. **This course was formerly ALDC 2304. Admission to this course requires proof of a passing score on the reading portion of the TASP test.**
- SCWK 2301**     **Assessment and Case Management (3,3,0).** Exploration of procedures to identify and evaluate an individual's and/or family's strengths, weaknesses, problems, and needs in order to develop an effective plan of action. Topics include oral and written communications essential for assessment, screening, intervention, client information, and referral. **This course was formerly ALDC 2303.**
- SCWK 2331**     **Abnormal Behavior (3,3,0).** An introduction to the literature concerning maladaptive behavior including characteristics, classification, diagnosis, and treatment modalities. Topics include factors associated with defining and identifying abnormal behavior.



## Economics

**ECON 2301** **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, theory of supply/demand, market institutions, national income accounting, classical/neoclassical philosophy, aggregate supply-aggregate demand analysis, inflation, unemployment, economics investment/growth, and money and banking.



**ECON 2302** **Principles of Economics II (3,3,0).** A micro-economic study of costs and the profit maximizing theory of the firm within the various market structures, and analysis of various selected American economics problems, international economics, and alternate economic systems.

### Electricity-Industrial\*

**ELPT 1419** **Fundamentals of Electricity I (4,2,11).** An introduction to basic direct current (DC) theory including theory and direct current applications.

**ELPT 1420** **Fundamentals of Electricity II (4,2,11).** An overview of the theory and practice of electrical circuits including calculations as applied to alternating and direct current.

**ELPT 1215** **Electrical Calculations (2,4,0).** Introduction to mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, percentages, simple questions, ratio and proportion, unit conversions, and applied geometry.

**ELPT 1411** **Basic Electrical Theory (4,2,11).** An overview of the theory and practice of electrical circuits including calculations as applied to alternating and direct current.

**ELPT 1429** **Residential Units (4,2,11).** Instruction in wiring methods used for single family, two family, and multifamily dwellings.

**ELPT 2215** **Electrical Calculations II (2,4,0).** Further study of mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, ratio and proportion, applied geometry, and utilization of right triangles to calculate electrical values.

**ELPT 1457** **Industrial Wiring (4,2,11).** Instruction in wiring methods used for industrial installations.



- ELPT 2447**     **Electrical Testing and Maintenance (4,2,11).** Skill development in the proper and safe use of electrical power equipment test devices and the interpretation of test results. Topics include protective relay testing and calibration, direct current (DC) testing, insulation power factor testing, and medium voltage switch gear.
- ELPT 1225**     **National Electrical Code I (2,4,0).** An introductory study of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring design, protection, methods, and materials; equipment for general use; and basic calculations.
- ELPT 2405**     **Motors and Transformers (4,2,11).** A study of the principles of operation of single and three-phase motors and transformers. Topics include transformer banking, power factor correction, and protective devices.
- ELPT 2437**     **Electrical Planning and Estimating (4,2,11).** Instruction in preparation of estimates for residential, commercial, and industrial wiring systems. Skill development in a variety of electrical techniques.
- ELPT 2225**     **National Electrical Code II (2,4,0).** In-depth coverage of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring protection and methods, special conditions, and advanced calculations.

\*This is a semester hour program based on 12 week quarters.

### **Electronics Technology**

- CETT 1403**     **DC Circuits (4,3,3).** Fundamental principles of DC electricity, Ohm's Law, Kirchhoff's Law for DC circuits, series and parallel circuits, and basic resistive network theorems including Thevenin. Laboratory experiments verify the properties of DC circuits.
- CETT 1405**     **AC Circuits (4,3,3).** Fundamental principles and vector analysis of AC circuits including inductance, capacitance, reactance, impedance, resonance, transformers, and complex AC circuits. Laboratory experiments verify the properties of AC circuits. Prerequisite: CETT 1403.
- CETT 1425**     **Digital Fundamentals (4,3,3).** A study of SSI combinational logic, which includes numbering systems, base conversion, logic gates, truth tables, logic symbology, Boolean Algebra and minimization techniques. To complement theory, laboratory experiments emphasize the design, operation, and troubleshooting SSI circuits.



- CETT 1429**     **Solid State Devices** (4,3,3). A circuit analysis of the operating characteristics and biasing of various devices used for generation and amplification of signal currents. The study includes diodes, bipolar transistors and field-effect transistors. Prerequisite: CETT 1403.
- CETT 1441**     **Solid State Circuits** (4,3,3). A study of the operating characteristics of amplifiers, oscillators, and pulse-shaping devices. Laboratory experiments investigate the operating dynamics of BJT and FET configurations coupled troubleshooting. Prerequisite: CETT 1429 and CETT 1405.
- CETT 1449**     **Digital Systems** (4,3,3). A study of MSI combinational and sequential logic including flip-flops, counters, registers, coding, multiplexing and arithmetic circuits. To complement theory, laboratory experiments emphasize the operation and troubleshooting of MSI combinational and sequential circuits. Prerequisite: CETT 1425.
- CETT 1457**     **Linear Integrated Circuits** (4,3,3). A study of the operational amplifier, feedback circuits, computations and active filters. Laboratory experiments investigate the operational amplifier's dynamics coupled with troubleshooting. Prerequisite: CETT 1429.
- CPMT 1411**     **Introduction to Computer Maintenance** (4,3,3). A study of the information for the assembly of a microcomputer system. Emphasis on terminology, microprocessor evolution, bus structures, and an introduction to PC hardware coupled with software and hardware diagnostics. Laboratory experiments utilize an A+*Certified* computer maintenance trainer.
- CPMT 1445**     **Computer Systems Maintenance** (4,3,3). Examination of the functions of the components within a computer system. Emphasis on system boards and I/O devices. Laboratory experiments utilize an A+*Certified* computer maintenance trainer. Prerequisite: CPMT 1411.
- CPMT 2445**     **Computer Systems Troubleshooting** (4,3,3). Principles and practices involved in computer system troubleshooting and repair procedures including advanced diagnostic test programs and IC-level troubleshooting. Laboratory experiments utilize an A+*Certified* computer maintenance trainer. Prerequisite: CPMT 1445.
- EECT 2439**     **Communication Circuits** (4,3,3). A study of the transmission and reception of analog and digital communication. Emphases on amplitude, frequency, phase and pulse modulation. Prerequisite: CETT 1457.



- ELMT 2339**     **Advanced Programmable Logic Controllers (3,3,3).** A study of advanced concepts in programmable logic controllers including advanced processors, programming and interfacing techniques, and specialized applications. Laboratory experiments emphasize PLC implementation of programs involving analog devices and data manipulation instructions. The student will describe, demonstrate, and apply intermediate and advanced processors, programming and interfacing techniques, and special applications. Prerequisite: RBTC 1401 (preferred) or practical PLC experience.
- ELMT 2433**     **Industrial Electronics (4,3,3).** A study of devices and circuits used in a process control loop. Emphasis on signal origin and process control elements. Prerequisite: CETT 1449 and CETT 1457.
- RBTC 1401**     **Programmable Controllers (4,3,3).** This course encompasses PLC architecture, ladder diagram formatting, and the programming/editing basic for the Allen-Bradley PLC logic ladder implementation of relay ladder diagrams simulated by discrete devices. Manual controls safeties, program layouts, and sequencer instruction data tables are included.

### **Emergency Medical Technology**

- EMSP 1501**     **EMT-Basic (5,4,4).** Introduction to the level of Emergency Medical Technician (EMT)-Basic. Includes all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. The student will display a working knowledge of clinical information and related topics relevant to the practice of pre-hospital emergency medical care of the EMT-Basic level; demonstrate the ability to competently perform all applicable skills; and exhibit attitudes and behavior consistent with the ethics and professionalism expected of the EMT-Basic. Prerequisites: Current American Heart Association Health Care Provider or American Red Cross Professional Rescuer or equivalent course completion.
- EMSP 1260**     **EMT-Basic Clinical (2,0,6).** A method of instruction providing detailed education, training, workbased experience, and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. Concurrent registration with EMSP 1501.



- EMSP 1338**      **Introduction to Advanced Practice (3,3,1).** An exploration of the foundations necessary for mastery of the advanced topics of clinical practice out of the hospital. At the completion of this module, the student will understand the roles and responsibilities of a paramedic with the EMS system; apply the basic concepts of development, pathophysiology to assessment and management of emergency patients; be able to communicate effectively with patients; and understand the medical/legal and ethical issues relating to EMS practice as well as the issues impacting the well being of the paramedic. Prerequisite: Current EMT-Basic or EMT-Intermediate certification and current A.H.A.BLS Healthcare Provider certification or equivalent course completion. Concurrent registration with EMSP 1356, EMSP 1355, and EMSP 2361.
- EMSP 1356**      **Patient Assessment and Airway Management (3,3,1).** A detailed study of the knowledge and skills required to reach competence in performing patient assessment and airway management. At the completion of this module, the student will be able to take a proper history and perform a comprehensive physical exam on any patient; develop a patient care plan; communicate with others; and establish and/or maintain a patient airway, oxygenate, and ventilate a patient. Concurrent registration with EMSP 1338, EMSP 1355, and EMSP 2361.
- EMSP 1355**      **Trauma Management (3,2,2).** A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with traumatic injuries. At the completion of this module, the student will be able to integrate the pathophysiological principles and assessment findings to formulate a field impression; and implement the treatment plan for the trauma patient. Concurrent registration with EMSP 1338, EMSP 1356, and EMSP 2361.
- EMSP 2361**      **Paramedic Clinical I (3,0,9).** A method of instruction providing detailed education, training, workbased experience, and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. Concurrent registration with EMSP 1338, EMSP 1356, and EMSP 1355.



- EMSP 2348**     **Emergency Pharmacology** (3,3,1). A comprehensive course covering all aspects of the utilization of medications in treating emergency situations. Course is designed to compliment Cardiology, Special Populations, and Medical Emergency courses. The student will display a command of general pharmacological terminology, general drug mechanisms, administration routes and administration procedures, and drug dose calculations. Students will demonstrate understanding for the pharmacodynamics, pharmacokinetics, indications, contraindications, possible side effects, and common drug interactions of a variety of medications used in out-of-hospital medical care. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, and EMSP 2361. Concurrent registration with EMSP 2444, EMSP 2338, and EMSP 2362.
- EMSP 2444**     **Cardiology** (4,3,3). A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with cardiac emergencies. At the completion of this module, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, and EMSP 2361. Concurrent registration with EMSP 2348, EMSP 2338, and EMSP 2362.
- EMSP 2338**     **EMS Operations** (3,2,1). A detailed study of the knowledge and skills necessary to reach competence to safely manage the scene of an emergency. At the completion of this unit, the student will be able to safely manage medical incidents, rescue situations, hazardous materials and crime scenes. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, and EMSP 2361. Concurrent registration with EMSP 2348, EMSP 2444, and EMSP 2362.
- EMSP 2362**     **Paramedic Clinical II** (3,0,9). A method of instruction providing detailed education, training, workbased experience, and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, and EMSP 2361. Concurrent registration with EMSP 2348, EMSP 2444, and EMSP 2338.
- EMSP 2434**     **Medical Emergencies** (4,4,1). A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with medical emergencies. At the completion of this module, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the medical patient. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, EMSP 2361, EMSP 2348, EMSP 2444, EMSP 2338, and EMSP 2362. Concurrent registration with EMSP 2263.



- EMSP 2263**      **Paramedic Clinical III (2,0,7).** A method of instruction providing detailed education, training, workbased experience, and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, and EMSP 2361. Concurrent registration with EMSP 2434.
- EMSP 2330**      **Special Populations (3,3,1).** A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of ill or injured patients in nontraditional populations. At the completion of this module, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for neonatal, pediatric, and geriatric patients, diverse patients, and chronically ill patients. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, EMSP 2361, EMSP 2348, EMSP 2444, EMSP 2338, EMSP 2362, EMSP 2434, and EMSP 2263. Concurrent registration with EMSP 2243.
- EMSP 2243**      **Assessment Based Management (2,2,2).** The capstone course of the EMSP program. Designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. At the completion of this module, the student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for patients with common complaints. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, EMSP 2361, EMSP 2348, EMSP 2444, EMSP 2338, EMSP 2362, EMSP 2434, and EMSP 2263. Concurrent registration with EMSP 2330.
- EMSP 2486**      **Paramedic Internship (4,0,12).** An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and interactions with and among political, economic, environmental, and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. Prerequisites: EMSP 1338, EMSP 1356, EMSP 1355, EMSP 2361, EMSP 2348, EMSP 2444, EMSP 2338, EMSP 2362, EMSP 2434, and EMSP 2263. Corequisites: EMSP 2330 and EMSP 2243.



- EMSP 2135**     **Advanced Cardiac Life Support** (1,0,3). Skill development for professional personnel practicing in critical care units, emergency departments, and paramedic ambulances. Establishes a system of protocols for management of the patient experiencing cardiac difficulties. The student will display a working knowledge of clinical information and related topics relevant to the practice of pre-hospital and hospital personnel in cardiac management; demonstrate the ability to competently perform all applicable skills; and exhibit attitudes and behavior consistent with the ethics and professionalism expected of pre-hospital and hospital personnel. Prerequisite: Current American Heart Association Health Care Provider or American Red Cross Professional Rescuer or equivalent course completion.

## **Engineering**

- ENGR 1301**     **Foundations of Engineering** (3,3,3). Introduction to the profession of engineering and the application of engineering principles to solve design problems. Topics covered include engineering subdisciplines and ethics; use of the computer in problem solving, physical laws, and engineering statistics. Prerequisite: MATH 1314 or permission of the instructor.
- ENGR 1304**     **Engineering Graphics I** (3,2,2). The principles of drafting the theory and practice of Orthographic Projection in the first and third quadrants, size and shape descriptions, geometric constructions, sections, auxiliary projections, revolutions, axonometrics, obliques, surface intersections, dimensioning, and size and geometric tolerancing.
- ENGR 1305**     **Engineering Graphics II** (3,2,2). Descriptive Geometry. An examination of the graphical solution to problems involving points, lines, and planes in space. This will include principal, primary and oblique views, intersections, warped surfaces, and surface developments. Prerequisite: ENGR 1304.
- ENGR 2301**     **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: MATH 2413, and Corequisite: MATH 2414.
- ENGR 2302**     **Engineering Mechanics II (Dynamics)** (3,3,0). Principles of dynamics: Kinematics, Newtons laws of motion, work and energy, impulse and momentum, and periodic motion. Prerequisite: ENGR 2301 or Division approval.



## English

Placement of all beginning freshmen English students will be determined either by ACT, SAT, or English Placement Test scores.

- ENGL 0031 Basic English** (0,3,2). A course, using varied instructional techniques, designed to help students overcome deficiencies in their writing and improve writing skills necessary to pursue college-level work. Emphasis is placed on paragraph writing. In addition, laboratory work is required. Successful completion of the course allows the student to advance to English 0032. Nontransferable and does not count toward an Associate Degree at Texarkana College.
- ENGL 0032 Developmental Writing** (0,3,2). 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. In addition, laboratory work is required. A grade of C is necessary to advance to English 1301. Nontransferable and does not count toward an Associate Degree at Texarkana College.
- ENGL 1301 Composition and Rhetoric I** (3,3,1). An intensive study of writing and reading skills, including research techniques. Prerequisite: a satisfactory score on ACT, SAT, TASP, or English Placement Test, or at least a grade of C in English 0032.
- ENGL 1302 Composition and Rhetoric II** (3,3,1). A continuation of English 1301 with emphasis on reading, critical thinking, research skills, and writing about various genres of literature. Prerequisite: Satisfactory completion of English 1301.
- ENGL 2307 Creative Writing** (3,3,0). Detailed study of the techniques of writing fiction, reading and analysis of contemporary models, and practice writing of fiction. The focus will be on the short story and the novel. Prerequisite: Satisfactory completion of English 1301 and 1302.
- ENGL 2311 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: Satisfactory completion of English 1301 and 1302.
- ENGL 2322 British Literature I** (3,3,0). A general survey of the literature of Britain from the beginning through the eighteenth century, involving chronological study of the principal authors, their works, and the movements pertaining to British literature, with emphasis on writing literary criticism. Prerequisite: Satisfactory completion of English 1301 and 1302.



- ENGL 2323** **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: Satisfactory completion of English 1301 and 1302.
- ENGL 2327** **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: Satisfactory completion of English 1301 and 1302.
- ENGL 2328** **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: Satisfactory completion of English 1301 and 1302.
- ENGL 2332** **World Literature I** (3,3,0). A study of the classics of western literature from Homer through the early Renaissance and the interrelations of the literary form and thought with emphasis on writing literary analysis. Prerequisite: Satisfactory completion of English 1301 and 1302.
- ENGL 2333** **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: Satisfactory completion of English 1301 and 1302.
- ENGL 2352** **Selected Studies in Literature: Short Story** (3,3,0). This course offers an indepth study of the short story with an emphasis on literary analysis and critical study of its structure, form, composition, and evolution over the past 250 years. Students will read a broad sampling of quality literature from American, British, and Continental writers. Prerequisite: Satisfactory completion of English 1301 and 1302.
- ENGL 2353** **Selected Studies in Literature: Literature of the American West** (3,3,0). This course includes intensive reading in the area of literature defined by the geographical definition of the American West. The course focuses on authors, genres, and themes associated with the West and requires appropriate written responses. Writing will emphasize literary analysis and evaluation including research and documentation. Prerequisites: Satisfactory completion of both semesters of Freshman English.



**ENGL 2354** **Selected Studies in Literature: Science Fiction** (3,3,0). This course provides an in-depth study of the Science Fiction genre and its origins, its present-day offerings, and its future as a part of the world's literature. This three-hour sophomore course is designed for the student who has an interest in reading and studying science fiction and needs or wants three hours of sophomore literature credit. Students taking this course must have satisfactorily completed both semesters of Composition and Rhetoric, English 1301 and 1302, or the equivalent from another college or university.

**ENGL 2355** **Selected Studies in Literature: Poetry** (3,3,0). This course offers an in-depth study in the analysis of Poetry, with hopes to instill in the student to desire to read and study the genre further as a result of comprehending it. This three hours sophomore course is designed for the student who has an interest in reading and understanding poetry or needs or wants three hours of sophomore literature credit. Students taking this course must have satisfactorily completed both semester of Composition and Rhetoric, English 1301 and 1302, or the equivalent from another college or university.

**F**

**ENGL 2356** **Selected Studies in Literature: Classical Mythology** (3,3,0). This course provide an in-depth look at Greek and Roman myths that are so much a part of later literature. This three hour sophomore-level course is designed for the student who has an interest in classical myth and needs or wants three hours of sophomore credit. Students taking this course must have satisfactorily completed both semester of Composition and Rhetoric, English 1301 and 1302, or the equivalent from another college or university.

### English as a Second Language

**ESOL 0031** **English for Speakers of Other Languages** (0,3,2). A course designed to improve the English language skills of nonnative speakers of English. The instruction emphasizes vocabulary building, identifying and overcoming deficiencies in grammatical structure, and improving the listening, speaking, and writing skills of nonnative students who intend to pursue college-level studies.

### French

**FREN 1300** **French Conversation** (0,3,2). This course is designed to improve the student's oral communication skills and pronunciation. The study includes audio-lingual activities, basic vocabulary, practice of common idiomatic phrases, and dialogues on topics of daily life situations. This course may not substitute for French 1411 or be counted as part of the core requirements for a baccalaureate degree or majors in French.



- FREN 1310** **French Conversation** (3,3,0). Continuation of French 1300. Additional work and practice in conversation, pronunciation, expressions, and class discussion of varied topics of everyday situations. This course may not substitute for French 1412 or be counted as part of the core requirements for a baccalaureate degree or majors in French.
- FREN 1411** **Elementary French I** (4,3,2). A beginning level course which introduces students to fundamental language skills in listening comprehension, speaking, reading and writing. Study includes basic vocabulary, grammatical structures, and culture of the French-speaking peoples. Two hours a week in laboratory practice required.
- FREN 1412** **Elementary French II** (4,3,2). Continuation of French 1411 with emphasis on communication skills. Two hours a week in laboratory practice required. Prerequisite: French 1411, two units of high school French, or an appropriate score on placement test.
- FREN 2311** **Intermediate French I** (3,3,0). An intermediate level course designed to improve the student's language skills. Review of language structures, greater emphasis on conversation, vocabulary building, reading, guided composition, and culture. Class conducted mostly in French. Prerequisite: French 1412, three units of high school French, or an appropriate score on placement test.
- FREN 2312** **Intermediate French II** (3,3,0). Continuation of French 2311. More advanced study in oral and written expression, reading periodicals and literature. Prerequisite: French 2311.

## Geography

- GEOG 1303** **World Regional Geography** (3,3,0). A study of the major developed and developing regions of the world, with emphasis on an awareness of prevailing world conditions and emerging developments, including the diversity of ideas and practices in various regions. Major topics may include: culture, religion, language, landforms, climate, agriculture, and economic activities. This course was formerly GEOG 1300.

## Geology

- GEOL 1401** **Planet Earth** (4,3,3). Primarily for non-science majors, this course studies the earth as a planetary whole. Topics include the heat budget of the earth and the greenhouse effect; the structure, circulation, and evolution of the atmosphere, oceans, and solid earth; plate tectonics; cycling of elements; short and long-term climate change; global warming and ozone depletion.



**GEOL 1403**     **General Physical Geology** (4,3,3). An investigation into the processes that shape the solid earth, including the formation of minerals and rocks, volcanism, erosion, and sedimentation, mountain building, earthquakes, landform evolution, glaciation, and the motion of the continents.

**GEOL 1404**     **General Historical Geology** (4,3,3). Investigates the rock and fossil record to unravel the history of the continents, oceans, and life on earth. Topics include relative and absolute dating, stratigraphy, the evolution of life, and geologic history with an emphasis on North America. Prerequisite: GEOL 1403 or permission of instructor.

## Government

**GOVT 2304**     **Introduction to Political Science** (3,3,0). An introductory survey of the field of political science. Includes an examination of the basic concepts of politics and political behavior, the history of the discipline, the scope and methods of political inquiry, public policy, political dynamics, and theory and organization of the modern state. This course may not be substituted for GOVT 2305 or 2306.



**GOVT 2305**     **United States Government** (3,3,0). A study of American national government with emphasis on the United States Constitution, Federalism, Congress, the Presidency, and the federal courts. Additional emphasis is placed on bureaucracy, criminal procedure, civil liberties, political parties, and voting behavior. **This course was formerly GOVT 2302.**

**GOVT 2306**     **State and Local Government** (3,3,0). A study of the Texas Constitution and government emphasizing political institutions including: political parties, interest groups, the legislature, the governor, bureaucracy, judiciary, and local government. **This course was formerly GOVT 2301.**

## History

**HIST 1301**     **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 present.

**HIST 2301**     **Survey of Texas History** (3,3,0). This course presents a history of the unique development of Texas and Texans from pre-Columbian times to the present. Topics include Native American cultures, independence and the Texas Republic, Civil War and Reconstruction, the cattle kingdom, the petroleum industry and the rise of the urban-industrial lifestyle. May be substituted for HIST 1301 or 1302.



- HIST 2311** **Survey of Western Civilization (3,3,0).** Historical survey of the origin and development of institutional cultural life from earliest times to present. Movement of the 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.
- HIST 2312**
- HIST 2321** **World Civilizations I (3,3,0).** A survey of ancient and medieval history with emphasis on Asian, African, and European cultures.
- HIST 2322** **World Civilizations II (3,3,0).** The modern history and culture of Asia, Africa, Europe, and the Americas, including recent developments.

### **Journalism**

- COMM 1129** **Journalism Practicum (1,0,5).** Supervised practice and instruction to journalism, advertising sales, newspaper layout, newspaper management, publication. Students will work on the TC News staff. Required for all journalism classes.
- 1130**
- 2129**
- 2130**
- COMM 1307** **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.
- COMM 1316** **News Photography I (3,3,0).** An introductory course for beginners in black and white photography, the course teaches use of 35 mm cameras, accessories and procedure; basic introduction to darkroom techniques; emphasis on photographic techniques used by photojournalists in newspapers and magazines. Students must provide acceptable adjustable 35 mm camera, film, and photo paper for lab use. Prerequisite: COMM 2311 or concurrent enrollment in COMM 2311 or consent of instructor.
- COMM 2305** **Editing and Layout (3,3,0).** This course develops an understanding of the editing and layout process with an emphasis on accuracy and fairness and exposes students to the principles and techniques of design. Students will be members of the TC News staff. Practicum required for all students. Prerequisite: COMM 2311.
- COMM 2309** **News Editing and Copy Reading (3,3,0).** This course is a comprehensive study of copy editing for errors of fact and newspaper style. Headline writing, outline writing and page makeup are also stressed. Students will be members of the TC News staff. Practicum required for all students. Prerequisite: COMM 2311.




**COMM 2311** **News Writing & Reporting I** (3,3,0). This entry level journalism course is a study of the gathering and reporting of news. The whole range of the reporter's work is covered by lecture and actual practice with the students working as reporters for the TC News. This course is a prerequisite for all other journalism courses offered at Texarkana College. Practicum is required.

**COMM 2315** **Reporting II** (3,3,0). Continuation of Journalism 2311 with a comprehensive study of interviewing, writing and reporting the news. Emphasis is placed on more complex stories and more specialized types of stories. Headline writing and proofreading are introduced. Practicum is required. Prerequisite: COMM 2311.

### Quality Management

**BMGT 1301** **Supervision** (3,3,0). A study of the role of the supervisor. Managerial functions as applied to leadership, counseling, motivation, and human skills are examined.

**BMGT 1303** **Principles of Quality Management** (3,3,0). Concepts, terminology, principles, theory, and issues that are the substance of the practice of management.

 **BMGT 1331** **Production and Operations Management** (3,3,0). Fundamentals of the various techniques used in the practice of production management to include location, design, and resource allocation.

**BMGT 1382** **Cooperative Education-Business Administration and Management,**  
**1383** **General** (3,1,15). Career related activities encountered in the student's  
**2382** area of specialization are offered through a cooperative agreement be  
**2383** tween the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary.

**BMGT 2331** **Total Quality Management** (3,3,0). Quality of productivity in organizations. Includes planning for quality throughout the organization, analysis of costs of quality, and employee empowerment.

**HRPO 1311** **Human Relations** (3,3,0). Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment.

**HRPO 2301** **Human Resources Management** (3,3,0). Behavioral and legal approaches to the management of human resources in organizations.



- MRKG 1311** **Principles of Marketing (3,3,0).** Introduction to basic marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research.
- QCTC 1301** **Total Quality Management (3,3,0).** The study of integrating work processes using team participation through employee empowerment and teamwork emphasizing the philosophy of customer service and satisfaction.

### **Mass Communications**

- COMM 1307** **Introduction to Mass Communications (3,3,0).** Study of the media by which entertainment and information messages are delivered. Includes an overview of the traditional mass media; their functions, structures, supports, and influences.
- COMM 1336** **Television Production I (3,3,3).** Study of the artistic and creative processes involved in video and television production. Includes practical (hands-on) experience in both pre and post production of programming for TCTV.
- COMM 1337** **Television Production II (3,3,3).** Advanced application of the techniques and processes used in video and television production. Includes practical (hands-on) experience in production of programming for TCTV. Prerequisite: COMM 1336 or consent of instructor.
- COMM 2303** **Production (3,3,3).** Concepts and techniques of sound production, including the coordinating and directing processes. Hands-on experience with equipment, sound sources, and direction of talent.
- COMM 2311** **New Gathering and Writing I (3,3,3).** Fundamentals of writing news for the mass media. Includes instruction in methods and techniques for gathering, processing, and delivering news in a professional manner.
- COMM 2324** **Practicum in New Media I (3,3,3).** Fundamentals of design and technique used in the production of digital media for the internet, CD-ROM and DVD (Digital Versatile Disc). Prerequisite: COMM 1336, 1337.
- COMM 2325** **Practicum in New Media II (3,3,3).** Practical (hands-on) application of the concepts covered in COMM 2324. Students will be required to design, author and produce an interactive DVD.
- COMM 2332** **Radio/Television News (3,3,3).** Preparation and analysis of news styles for the electronic media.



## Mathematics

- MATH 0031** **Pre-Algebra (3,3,1).** Topics in this course include arithmetic operations on whole numbers, fractions, decimals, real numbers; ratio/proportion, percentages, measurements, interpretation of graphs and statistics, geometry; exponents, algebraic expressions and problem solving. Non-transferable and does not count toward a degree at Texarkana College.
- MATH 0032** **Introduction to Algebra (3,3,1).** Topics in this course include operations on and properties of real numbers, exponents, scientific notation, solving equations and inequalities; problem solving; introduction to coordinate system and graphing; polynomials: operations including factoring, solving quadratic equations by factoring; rational expressions and equations. Non-transferable and does not count toward a degree at Texarkana College. Prerequisite: MATH 0031 or satisfactory placement scores.
- MATH 0033** **Intermediate Algebra (3,3,1).** Topics in this course include factoring; functions and graphs: linear functions, graphs, and algebra of functions; systems of equations in two variables and problem solving; inequalities: linear, absolute value, graphing; exponents and radical: rational exponents, radicals and radical equations, complex numbers; solving and graphing quadratic equations. Nontransferable and does not count toward a degree at Texarkana College. Prerequisite: MATH 0032 or satisfactory placement scores.
- MATH 1314** **College Algebra (3,3,0).** Topics include graphs, functions and their inverses; data analysis and modeling; polynomial and rational functions, roots of polynomial equations, exponential and logarithmic functions; linear and non-linear systems of equations and inequalities, determinants, matrices, binomial theorem, sequences and series, permutations and combinations. Prerequisite: MATH 0033 or satisfactory placement scores.
- MATH 1316** **Plane Trigonometry (3,3,0).** Topics include sets, ordered relations, number intervals, trigonometric functions, radian measure, variations and graphs of the functions, solution of right triangle and applications, trigonometric identities, equations, vector applications, and inverse functions, general triangle and complex numbers. Prerequisite: MATH 0033 or satisfactory placement scores.
- MATH 1324** **Concepts of Math I (3,3,0).** The study of mathematical applications in business, life sciences, 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: MATH 0033 or satisfactory placement scores.



- MATH 1325**     **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 and applications of integration, and indefinite integrals. Prerequisite: MATH 1314 or MATH 1324.
- MATH 1332**     **College Mathematics I (3,3,0).** A knowledge of intermediate algebra is essential. Topics include the mathematics of finance, probability, statistics, logic and reasoning, computer and software, problem solving and geometry. This course does not count towards a mathematics degree. Prerequisite: MATH 0033 or satisfactory placement scores.
- MATH 1342**     **Elementary Statistics (3,3,0).** An introductory course in statistical methods. Topics include collection and display of data, mean, standard deviation and variance, probability including the normal, binomial, and chi-square distributions. Other topics also included are sampling and sampling distributions, confidence intervals, hypothesis testing including non-parametric tests, regression, and analysis of variance. Prerequisite: MATH 0033 or satisfactory placement scores.
- MATH 1350**     **Fundamentals of Mathematics for Teacher Certification I (3,3,0).** *(Formerly MATH 1305 College Mathematics for Teacher Preparation I).* Topics include concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. Special emphasis will be given to terminology, notation, skills, and approaches relevant to the elementary grades and to uses of manipulatives and technology in the classroom. Additional topics are chosen by the instructor for their relevance to the class, the local schools, and modern trends in mathematics. Prerequisite: MATH 1314 College Algebra or the equivalent.
- MATH 1351**     **Fundamentals of Mathematics for Teacher Certification II (3,3,0).** *(Formerly MATH 1306 College Mathematics for Teacher Preparation II).* Topics include concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. Special emphasis will be given to terminology, notation, skills, and approaches relevant to the elementary grades and to uses of manipulatives and technology in the classroom. Additional topics are chosen by the instructor for their relevance to the class, the local schools, and modern trends in mathematics. Prerequisites: MATH 1350, Math 1314 College Algebra or the equivalent.



- MATH 2413**     **Calculus with Analytic Geometry** (4,3,2). This course will include limits, continuity, derivatives, differentiation rules and rates of change, implicit differentiation and related rates, applications of derivatives, applications including analytic geometry—straight lines and conic sections, antiderivatives, definite and indefinite integration, Fundamental Theorem of Calculus, integration by substitution, and numerical integration. A strong algebra and trigonometry background is necessary.
- MATH 2414**     **Calculus II** (4,3,2). Topics covered in this course include differentiation and integration of inverse functions: exponential, logarithmic, and trigonometric; hyperbolic functions; applications of integration: area, volume, arc length, surfaces of revolution, work, fluid pressure and force, moments, centers of mass, and centroids. Students will also study techniques of integration, parametric equations, polar coordinates, indeterminate forms, improper integrals, and infinite sequences and series. Prerequisite: MATH 2413.
- MATH 2415**     **Calculus III** (4,3,2). This course includes the three dimensional analytic geometry and vectors, differentiation and integration of vector valued functions, velocity and acceleration, tangent and normal vectors, arc length and curvature, functions of several variables, partial derivatives. Differentials, differentiating functions of several variables, applications involving functions of several variables, multiple integration and applications, and vector analysis including Green's and Stoke's theorems will also be covered in this course. Prerequisite: MATH 2414.

### Major Ensembles\*

- MUSI 1141**     **Choir** (1,0,3). 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.
- MUSI 1142**  
**2143**  
**2144**
- MUSI 1122**     **Band** (1,0,3). 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.
- MUSI 1123**  
**2122**  
**2123**

**\*Music majors and minors must participate in a major ensemble each semester they are enrolled in the music department.**

## Minor Ensembles

- MUSI 1154** **Vocal Ensemble** (1,3,0). The TC Singers are composed of superior voices selected by the director. This group performs as a single unit as in conjunction with concert choir appearances.
- 1155**  
**2154**  
**2155**
- MUSI 1127** **Stage Band** (1,3,0). Meets regularly through the year and performs standard and special arrangements from the popular and dance idiom.
- 1128**  
**2127** Prerequisite: Satisfactory tryout.  
**2128**

## Music Education

- MUSI 2211** **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 preparatory division must register for this course.**
- MUSI 1300** **Fundamentals of Music** (3,3,2). An elementary course in the fundamentals of harmony/theory as applied and taught in public school classes for the general student body. Emphasis is placed on scales, keys, rhythm, intervals, chords, terms, style, form and body movement.
- MUSI 1301** **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: MUSI 1300.
- MUSI 2166** **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.
- 2167**
- MUSI 1168** **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.
- 2168**
- MUSI 1183** **Class Voice** (2,1,1). This 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.
- 1184**  
**2183**  
**2184**



- MUSI 1115** **Vocal Dictation** (1,1,1). This course will provide for molding the pronunciation of lyrics in the principal singing languages. Emphasis on the international phonetic system will be stressed.
- MUSI 1185** **Class Piano** (2,1,1). This course introduces the beginning student to fundamental keyboard technique. The course is designed for non-music majors 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.
- MUSI 1186**  
**2185**  
**2186**
- MUSI 1281** **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.
- MUSI 1282**  
**2281**  
**2282**

### **Music History and Literature/Appreciation**

- MUSI 1306** **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.
- MUSI 1308** **Music Literature I** (3,3,2). A survey dealing with the principal forms from the Ars Antiqua, Ars Nova, Renaissance, Baroque, and Classic Periods.
- MUSI 1309** **Music Literature II (continued)** (3,3,2). A survey dealing with the principal forms of the large Classic, Romantic, Impressionistic, and Contemporary periods.

### **Music Theater**

- MUSI 1158** **Music Theater** (1,0,3). This course is designed to give the actor and singer practical experience in music theater. A study of 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.
- MUSI 1159**  
**2158**  
**2159**

### **Music Theory**

- MUSI 1311** **Elementary Harmony** (3,3,2). 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 MUSI 0031.

- MUSI 1116 Elementary Sight Singing and Ear Training I (1,1,2).** This course of study includes 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, and harmonic progressions of the principal chords. Keyboard application theory. **This course must be taken in conjunction with MUSI 1311.**
- MUSI 1312 Elementary Harmony II (continued) (1,1,2).** This course of study includes part writing figured bass exercises and harmonic backgrounds of all diatonic triads, the dominant seventh chords and non-harmonic tones. Enlargement of the period in melodic composition. Prerequisite: MUSI 1311 and MUSI 1116.
- MUSI 1313 Recording Studio (3,3,3).** An intensive study of the theory of studio recording, microphone usage and multitrack mix down techniques. Students will produce, engineer, mix, setup and perform in actual multitrack recording sessions. Portfolio samples may be required.
- MUSI 1117 Elementary Sight Singing and Ear Training II (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 theory. **This course must be taken in conjunction with MUSI 1311.**
- MUSI 2311 Advanced Harmony I (3,3,2).** Part-writing of figured diatonic seventh chords and modulations, styles of writing other than chorales. Prerequisite: MUSI 1312 and MUSI 1117.
- MUSI 2116 Advanced Sight Singing and Ear Training III (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: MUSI 1312 and MUSI 1117. **This course must be taken in conjunction with MUSI 2311.**
- MUSI 2312 Advanced Harmony II (3,3,2).** 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 chorale style. Analysis of the larger forms of composition. Prerequisite: MUSI 2311 and MUSI 2116.



**MUSI 2118** **Advanced Sight Singing and Ear Training IV (cont.)** (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: MUSI 2116. **This course must be taken in conjunction with MUSI 2312.**

**MUSI 2313** **Introduction to MIDI** (3,3,3). A basic introductory course to study "Musical Instrument Digital Interface" which is a systems introduction with the MIDI language. The course also teaches popular song writing and jingle writing techniques using MIDI as the main focus.

### Organ

**MUAP 1151** **Applied Organ** (1,1,1). This course is designed for students who are not organ majors. Although this is a less concentrated course than MUAP 1152 2165 2166 - 1266; similar literature will be used.

**MUAP 1165** **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 MUAP 1269. 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 Manual and 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.

**MUAP 2265** **Applied Organ** (2,1,1). This course is designed for the music major with organ as major instrument. It is a continuation of MUAP 1265, 1266 and 2266 with the minimum representative requirements are these:

- Gleason:* Method of Organ Playing  
Pedal Exercises; Pedal Scales  
Composition for Manuals

- Bach:* Preludes and Fugues of appropriate difficulty  
Works from Orgelbuchlein  
Works from Schubler Chorales
- Brahms:* Choral Preludes
- Franch:* Contabile, Piece Heroique  
Words from forerunners of Bach as well as compositions by modern American and foreign composers.

### Piano

- MUAP 1169** **Applied Piano** (1,1,0). 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 a recital at least once each semester. The student shall perform for jury each semester the requested numbers by memory.
- MUAP 1269** **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 a recital at least once each semester. The student shall perform for jury each semester the requested numbers by memory.
- MUAP 2269** **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.122) all major and minor arpeggios in all positions. Bach-Well Tempered Clavier or French Suites; Sonatas by Haydn, Mozart, Beethoven, suitable literature from Chopin, Schumann, Brahms, 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

- MUAP 1173** **Synthesizer** (1,1-2,1). Private lessons in electronic music synthesizer.  
**1174** Will study standard literature such as Cage, Babbitt and Carlos  
**1273** realizations. The student will become familiar with components of the  
**1274** 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. The ability to read music is not  
necessary.
- MUAP 2175** **Synthesizer** (1,1-2,1). Private lessons in electronic music synthesizer. Will  
**2176** study standard literature such as Cage, Babbitt and Carlos realizations. The  
**2275** student will become familiar with components of the music keyboard  
**2276** synthesizer and the results of interaction of oscillators, filters, envelope, ring  
modulator sequencer, and control of all parameters. No prerequisite, open to  
all students. The ability to read music is not necessary.

## Voice

- MUAP 1181** **Applied Voice** (1,1,1). (Non-major) These courses will consist of one  
**1182** half-hour lesson each week with a minimum of four hours practice each  
**2181** week. The student will study the principles of vocal production and pro-  
**2182** gress to exercise, and studies of increased difficulty. Examples from  
standard repertory will be included in the six memorized songs required  
for each semester. Performance for recitals and jury are required for each  
semester as well.
- MUAP 1281** **Applied Voice** (2,1,1). (Voice Major) Two half-hour lessons each week  
**1282** 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 for recitals and jury required each semester.
- MUAP 2281** **Applied Voice** (2,1,1). (Voice Major) Two half-hour lessons each week  
**2282** 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)

- RNSG 1105** **Nursing Skills I**(1,0,3). Study of the concepts and principles essential for demonstrating competence in the performance of nursing procedures. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: BIOL 2401, 2402 and 2420; PSYC 2301 and 2314; ITSW 1191 or any college level computer course; BIOL 1322; ENGL 1301; AHA/BLS-HCP; RNSG 1201, 1309, 1423, 1360, 1347, 1261, 2208, 1262. Corequisites: RNSG 2414 and 2463. (Formerly with NURS 2808).
- RNSG 1201** **Pharmacology** (2,3,0). Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Topics include the roles and responsibilities of the nurse in safe administration of medications with a legal/ethical framework. (Formerly NURS 1201).
- RNSG 1347** **Concepts of Clinical Decision-Making** (3,2,3). Integration of previous knowledge and skills into the continued development of the associate degree nurse as a provider of care, coordinator of care, and member of a profession emphasizing clinical decision-making, knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: BIOL 2401, 2402 and 1322; PSYC 2301 and 2314; ITSW 1191 or any college level computer course; AHA/BLS-HCP. RNSG 1201, 1309, 1423, 1360. Corequisites: ENGL 1306, RNSG 1261, 2208 and 1262. (Formerly NURS 1405 and 1106).
- RNSG 1261** **Clinical Nursing** (2,0,6). Work-based experience and direct patient/client care, generally at a clinical site. Must be taken concurrently with RNSG 1347.
- RNSG 1423** **Introduction to Professional Nursing** (4,3,3). Introduction to the profession of nursing including the roles of the registered nurse with emphasis on the application of a systematic, problem-solving process to provide care to diverse clients across the life span; and including applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: BIOL 2401, 2402; PSYC 2301; ITSW 1191 or any college level computer course; AHA/BLS-HCP. RNSG 1201 and 1309. Corequisites: BIOL 2401 or 2402; BIOL 1322; PSYC 2314, RNSG 1360 (Clinical). (Formerly NURS 1603).
- RNSG 1360** **Clinical Nursing** (3,0,9). Work-based experience and direct patient/client care, generally at a clinical site. Must be taken concurrently with RNSG 1423.



- RNSG 2341** **Advanced Concepts of Clinical Decision-Making** (3,3,0). Application of advanced concepts and skills for development of the associate degree nurses' role in complex client/nursing situations. Focus given to knowledge, judgment, skills, and professional values within a legal/ethical framework. Computer tutorials required. Prerequisites: BIOL 2401, 2402, 1322 and 2420. PSYC 2301 and 2314, ITSW 1191 or any college level computer course; ENGL 1301; SPCH 1315 or 1321; AHA/BLS-HCP. RNSG 1201,1309, 1423, 1360, 1347, 1261, 2208, 1262, 2414, 1105 and 2463. Corequisites: RNSG 2360, 2435, 2361. (Formerly NURS 2609.)
- RNSG 2360** **Clinical Nursing** (3,0,9). Work-based experience and direct patient/client care, generally at a clinical site. Must be taken concurrently with RNSG 2341.
- RNSG 2435** **Integrated Client Care Management** (4,4,0). Application of client assessment skills, critical thinking, and independent nursing interventions to care for diverse clients/families throughout the life span whose health care needs may be difficult to predict. Emphasis on collaborative clinical decision-making, nursing leadership skills, and client management. Topics include the significance of professional development, trends in nursing and health care, and applicable knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: BIOL 2401, 2402, 1322 and 2420. PSYC 2301 and 2314; ITSW 1191 or any college level computer course; ENGL 1301; SPCH 1315 or 1321; AHA/BLS-HCP. RNSG 1201, 1309, 1423, 1360, 1347, 1261, 2208, 1262, 2414, 1105 and 2463. Corequisites: RNSG 2341, 2360, and 2361. (Formerly NURS 2610.)
- RNSG 2361** **Clinical Nursing** (3,0,9). Work-based experience and direct patient/client care, generally at a clinical site. Must be taken concurrently with RNSG 2435.
- RNSG 2208** **Maternal/Newborn Nursing and Women's Health** (2,1,3). Study of concepts related to the provision of nursing care for normal childbearing families and those at risk, as well as women's health issues; competency in knowledge, judgment, skills, and professional values within a legal/ethical framework, including a focus on normal and high-risk needs for the childbearing family during the preconception, prenatal, intrapartum, neonatal, and postpartum periods; and consideration of selected issues in women's health. Prerequisites: BIOL 2401, 2402, 1322; PSYC 2301 and 2314; ITSW 1191 or any college level computer course; AHA/BLS-HCP; RNSG 1201, 1309, 1423, 1360. Corequisites: ENGL 1301; RNSG 1347 and 1261. (Formerly NURS 1407.)
- RNSG 1262** **Clinical Nursing** (2,0,6). Work-based experience and direct patient/client care, generally at a clinical site. Must be taken concurrently with RNSG 2208.

- RNSG 2414 Care of the Client with Complex Health Care Needs (4,4,0).** Application of a systematic problem solving process and critical-thinking skills to provide nursing care to diverse clients/families across the life span with complex health care needs in health maintenance and health restoration. Opportunities to collaborate with members of the multidisciplinary health care team. Topics include the role of the nurse as client advocate as coordinator of care and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: BIOL 2401, 2402, and 2420; PSYC 2301 and 2314; ITSW 1191 or any college level computer course; AHA/BLS-HCP; RNSG 1201, 1309, 1423, 1360 (or 2207), 1347, 1261, 2208, 1262. Corequisites: RNSG 1105 and 2463. **(Formerly NURS 2808.)**
- RNSG 2463 Clinical Nursing (4,0,12).** Work-based experience and direct patient/client care, generally at a clinical site. Must be taken concurrently with RNSG 2414 and 1105.
- RNSG 1309 Introduction to Nursing (3,3,0).** Overview of nursing and the role of the associate degree nurse as a provider of care, coordinator of care, and member of a profession. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework. **(Formerly NURS 1302.)**
- RNSG 2207 Transition to Nursing Practice (2,2,0).** Introduction to selected concepts related to the role of the associate degree nurse as a provider of care, coordinator of care, and member of the profession. Review of trends and issues impacting nursing and health care today and in the future. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: BIOL 2401 or 2402; PSYC 2301; AHA/BLS-HCP. Corequisites: ITSW 1191 or any college level computer course; PSYC 2314. **(Formerly NURS 1202.)**

### Vocational Nursing

- VNSG 1502 Applied Nursing Skills I (5,3,2).** Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education. **(Formerly NUV 181.)**
- VNSG 1420 Anatomy and Physiology for Allied Health (4,4,0).** Introduction to the normal structure and function of the body including an understanding of the relationship of body systems in maintaining homeostasis. **(Formerly NUV 181.)**
- VNSG 1115 Disease Control and Prevention (1,1,0).** Study of the general principles of prevention of illness and disease, basic microbiology, and the maintenance of aseptic conditions. **(Formerly NUV 181.)**



- VNSG 1222 Vocational Nursing Concepts (2,2,0).** Introduction to the nursing profession and its responsibilities and the legal and ethical issues in practice. Concepts related to the physical, emotional, and psychosocial self-care of the learner/professional. **(Formerly NUV 181.)**
- VNSG 1236 Mental Health (2,2,0).** Introduction to the principles and theories of positive mental health and human behaviors. Topics include emotional responses, coping mechanisms, and therapeutic communication. **(Formerly NUV 181.)**
- VNSG 1160 Clinical-Practical Nurse (1,0,4).** Introductory method of instruction providing detailed education, training and work-based experience, and direct client/patient care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external experiences. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education. **(Formerly NUV 181.)**
- VNSG 1400 Nursing in Health and Illness I (4,4,0).** Introduction to general principles of growth and development, primary health care needs of the client across the life span, and therapeutic nursing intervention. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160. **(Formerly NUV 182.)**
- VNSG 1661 Clinical-Practical Nurse (6,0,24).** Continuation of Introductory method of instruction providing detailed education, training, and work-based experience, and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement of responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160. Must be taken concurrently with VNSG 1400. **(Formerly NUV 182.)**
- VNSG 1330 Maternal-Neonatal Nursing (3,3,0).** Utilization of the nursing process in the assessment and management of the childbearing family. Emphasis on the bio-psycho-socio-cultural needs of the family during the phases of pregnancy, childbirth, and the neonatal period, including the abnormal conditions. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160, VNSG 1400, VNSG 1661. **(Formerly NUV 183.)**

- VNSG 1509** **Nursing in Health and Illness II** (5,5,0). Introduction to common health problems requiring medical and surgical interventions. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160 VNSG 1400, VNSG 1661 VNSG 1330, VNSG 1509, and VNSG 2662. (Formerly NUV 183.)
- VNSG 2662** **Clinical-Practical Nurse** (6,0,24). Intermediate method of instruction providing detailed education, training, and work-based experience, and direct patient/client care, generally at the clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160 VNSG 1400, VNSG 1661. Must be taken concurrently with VNSG 1330 and 1509. (Formerly NUV 183.)
- VNSG 1510** **Nursing in Health and Illness III** (5,4,1). Continuation of Nursing in Health and Illness II. Further study of common medical-surgical health problems of the client including concepts of mental illness. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160 VNSG 1400, VNSG 1661 VNSG 1330, VNSG 1509, and VNSG 2662. (Formerly NUV 184.)
- VNSG 1119** **Professional Development** (1,1,0). Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organization, and continuing education. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160 VNSG 1400, VNSG 1661 VNSG 1330, VNSG 1509, and VNSG 2662. (Formerly NUV 184.)
- VNSG 2663** **Clinical-Practical Nurse** (6,0,24). Advanced method of instruction providing detailed education, training and work-based experience, and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Prerequisite: American Heart BLS, Computer Introduction for LVN's, Allied Health Continuing Education, VNSG 1502, VNSG 1402, VNSG 1115, VNSG 1222, VNSG 1236, VNSG 1160 VNSG 1400, VNSG 1661 VNSG 1330, VNSG 1509, and VNSG 2662. Must be taken concurrently with VNSG 1510 and 1119. (Formerly NUV 184.)



## Office Careers\*

- POFT 1127**     **Introduction to Keyboarding** (1,1,5). Skill development in keyboarding with emphasis on alphabet, number, and symbol keys by touch. Skills can be applied to computers, typewriters, and other equipment with keyboards.
- POFT 1429**     **Keyboarding and Document Formatting** (4,1,7). Skill development in the operation of the keyboard by touch applying proper keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents.
- POFT 1309**     **Administrative Office Procedures I** (3,1,7). Study of current office procedures including telephone skills, time management, travel and meeting arrangements, mail processing, and other duties and responsibilities in an office environment.
- POFT 1319**     **Records and Information Management I** (3,1,7). Introduction to basic records and information management. Includes the life cycle of a record, manual and electronic records management.
- POFT 2203**     **Speed and Accuracy Building** (2,1,5). Review, correct, improve, and/or perfect touch keyboarding techniques for the purpose of increasing speed and improving accuracy.
- POFT 2301**     **Document Formatting and Skill Building** (3,1,7). A continuation of keyboarding skills in document formatting, speed, and accuracy. Emphasis on proofreading, editing, following instructions, and keying documents from various copy.
- POFT 1313**     **Professional Development for Office Personnel** (3,1,7). Preparation for the work force including business ethics, teamwork, professional attire, and promotability.
- POFT 1349**     **Administrative Office Procedures II** (3,1,7). Advanced office application with special emphasis on decision making, goal setting, management theories, and critical thinking.
- POFT 2333**     **Advanced Document Formatting and Skill Building** (3,1,7). Study of advanced concepts in a variety of office-simulated correspondence activities with emphasis on organization, prioritizing, decision making, composition, placement, accuracy, and speed development.
- POFT 2321**     **Machine Transcription** (3,1,7). Skill development in mailable business document production using computers and dictation equipment. Skill refinement in grammar and punctuation with emphasis on proofreading and formatting.

- POFT 1231 Business Machine Applications (2,1,5).** Skill development in the operation of machines used in a business environment. Emphasis on the development of skills in using electronic calculators and other office machines such as fax, telephone equipment, and reprographics.
- POFT 1292 Special Topics in Administrative Assistant/Secretarial Science, General (2,1,7).** Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.
- POFT 2687 Internship (6,1,23).** An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to special occupational outcomes. This may be a paid or unpaid experience. This course may be repeated if topics and learning outcomes vary.
- POFT 1492 Special Topics: Medical, Legal, Computerized Accounting, Spreadsheets, Advanced Machine Transcription, and/or Internet Projects. (4,1,5).** Topics addressed in this course will be in the student's specialized areas of interest.

\*Office Careers is a semester-hour program based on 12-week quarters.

### **Office Professional**

- POFT 1329 Keyboarding & Document Formatting (3,3,1).** Skill development in the operation of the keyboard by touch applying proper keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. Using Windows 98. (Formerly OFAD 1311 Elementary Keyboarding.)
- POFT 2301 Document Formatting & Skillbuilding (3,3,3).** A continuation of keyboarding skills in document formatting, speed, and accuracy. Emphasis on proofreading, editing, and following instructions, and keying documents from various copy. Using Windows 98. Prerequisite: POFT 1329 or one year of keyboarding in high school. (Formerly OFAD 1312 Int. Keyboarding.)
- POFT 2333 Advanced Document Formatting & Skillbuilding (3,3,3).** Study of advanced concepts in variety of office-simulated correspondence activities with emphasis on organization, prioritizing, decision making, composition, placement, accuracy, and speed development. Using Windows 98. Prerequisite: POFT 2301 or two years of keyboarding in high school. (Formerly OFAD 2301 Advanced Keyboarding.)



- POFT 1331 Business Machine Application (3,3,0).** Skill development in the operation of machines used in a business environment. Emphasis on the development of skills in using electronic calculators. (Formerly BUSI 1309 Office Machines.)
- POFT 1392 Special Topics in Administrative Assistant/Secretarial Science, General (3,3,0).** Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Prerequisite: POFT 1329 or equivalent.
- POFT 2321 Machine Transcription (3,3,1).** Skill development in mailable business document production using computers and dictation equipment. Skill refinement in grammar and punctuation with emphasis on proofreading and formatting. Prerequisite: POFT 1329- or equivalent. (Formerly OFAD 2303 Machine Transcription.)
- OFAD 2312 Office Practice and Procedures (3,3,0).** Designed for students interested in clerical or secretarial work. Development of an employable personality and proper work and dress habits, office mail, telegrams, shipping service, telephone techniques, receptionist's duties, banking and financial duties, systems of filing, planning for professional future, and an introduction to the electronic office procedures.
- OFAD 2304 Information Processing I (3,3,0).** Development of skill in understanding word processing concepts and development of proficient skills on automated word processing equipment. Using Windows 98. (Formerly Word Processing I.)
- OFAD 2305 Information Processing II (3,3,0).** Continuation of the study of word processing concepts and development of skills on automated word processing equipment. Using Windows 98. Prerequisite: OFAD 2304. (Formerly Word Processing I.)

## P

### Philosophy

- PHIL 1316 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.
- PHIL 1317 The New Testament (3,3,0).** A course designed to introduce the student to the New Testament writings and an appreciation of the life and teachings of Jesus Christ and the Early Christian movement.
- PHIL 1318 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.

- PHIL 2306 Introduction to Ethics (3,3,0).** This course is designed to include study of the major moral theories. Students will have the opportunity to apply these theories to today's most pressing concerns.
- PHIL 2316 Philosophy I (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.

### **Physical Education**

- PHED 1100 Beginner Jazz Dance (1,0,2).** A unique introduction and complete exercise program designed for the dancer and non-dancer alike including warm-up, floor progressions and dance combinations. Great for flexibility, toning, and strengthening every part of the body.
- PHED 1103 Beginner Ballet (1,0,2).** This course will focus on stretching techniques for the upper and lower body as well as basic barre routines. Students will learn to use ballet as an artistic fitness program. The course also includes learning basic floor routines, positions, and proper terms in preparation for performance ballet.
- PHED 1104 Advanced Bowling (1,0,2).**
- PHED 1105 Bowling (1,0,2).**
- PHED 1106 Beginning Tennis (1,0,2).**
- PHED 1107 Weight Training (1,0,2).**
- PHED 1108 Fitness and Weight Control (Women) (1,0,2).** A cardiovascular conditioning program designed to improve muscle tone and maintain a healthy body weight. Activities include lifting weights, Stair Master, running or walking and correct dietary habits.
- PHED 1109 Golf (1,0,2).**
- PHED 1110 Advanced Golf (1,0,2).**
- PHED 1111 Swimming (1,0,2).** A course for beginning swimmers. Designed to overcome fear and acquaint the student with the four basic strokes.
- PHED 1112 Archery and Table Tennis (1,0,2).**



- PHED 1114** **Swimming and Conditioning** (1,0,2). This course includes basic stroke work and is recommended for students who are interested in taking lifeguard, scuba, and sailing courses.
- PHED 1115** **Karate** (1,0,2).
- PHED 1116** **Volleyball** (1,0,2).
- PHED 1121** **Intermediate and Advanced Tennis** (1,0,2).
- PHED 1122** **Basic Foil Fencing** (1,0,2). This course will cover basic to advanced techniques in foil fencing. Appropriate for both the beginner and the more advanced student.
- PHED 1123** **Tae Bo** (1,0,2). This course is an exercise class which emphasizes aerobic conditioning through kickboxing movements.
- PHED 1124** **Rhythmic Aerobics** (1,0,2). Aerobic workouts to allow the student through movement to music to gain the aerobic training effects on the body.
- PHED 1125** **Racquetball** (1,0,2). This course includes the playing and rules of racquetball with emphasis on developmental skills.
- PHED 1126** **Intermediate Ballet** (1,0,2). A continuation of skills learned in Beginner Ballet.
- PHED 1133** **Bench Stepping** (1,0,2). This course is a low impact, high-intensity workout. Cardiovascular fitness is developed through bench step variation exercises. Warm-up and cool down increases joint and muscle flexibility.
- PHED 1134** **Walking for Fitness** (1,0,2). The objective of this course is to design an individualized training program for each student so that walking may become a lifetime activity. Goals of the course include increasing cardiovascular endurance and maintaining a desirable body weight. In addition, students will have the opportunity to develop muscular strength, muscular endurance and flexibility. Three hours of activity each week.
- PHED 1143** **Advanced Tae Bo** (1,0,2).
- PHED 1151** **Scuba Diving** (1,0,2).
- PHED 1152** **Scuba Diving (Advanced)** (1,0,2).

- PHED 1202** **Emergency Water Safety and Lifeguard Training** (2,0,2). This includes Advanced Life Saving, CPR, First Aid, and pool maintenance. (A Red Cross certified lifeguard course).
- PHED 1238** **Fitness, Weight Control and Nutrition (Women)** (2,1,1). This course includes a cardiovascular conditioning program designed to improve muscle tone and maintain a healthy body weight. Foods and/or food products which are desirable for consumption by those desiring a healthy lifestyle and correct dietary habits will be examined. Activities include lifting weights, fitness machines, walking and lecture.
- PHED 2301** **Introduction to Holistic Health** (3,3,0). This is designed to teach students ways to maintain good health throughout their life. It will focus on health, exercise, nutrition, and coping with stress. This course satisfies a requirement for elementary education majors. Lecture class.

### Physics

- PHYS 1401** **General Physics** (4,3,3). Designed primarily for students such as premedical, 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: MATH 1314, MATH 1316, or concurrent enrollment.
- PHYS 1402** **General Physics** (4,3,3). Electricity and magnetism, light, and modern physics. Prerequisite: PHYS 1401 or permission of instructor.
- PHYS 1411** **Introduction to Astronomy I** (4,3,3). A journey through the solar system. Begins with the history of Astronomy and covers such topics as the sun, earth, moon, planets, comets, meteors, and asteroids. Recent developments and discoveries are presented. Star maps, telescopes, and sky observations are stressed in lab.
- PHYS 1412** **Introduction to Astronomy II** (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.
- PHYS 1413** **Introductory Physics** (4,3,3). Topics will include mechanics, properties of liquids and gases, heat, electricity and magnetism, waves, sound, optics, and modern physics with emphasis on medical applications. Prerequisite: MATH 1314 or concurrent enrollment.



- PHYS 1415** **Physical Science I** (4,3,3). A survey of the principles of physics, astronomy, geology, and weather with more emphasis on physics and geology.
- PHYS 1417** **Physical Science II** (4,3,3). A survey of the principles of physics, astronomy, geology, and weather with more emphasis on astronomy and weather. This course may be taken before or after Physical Science I.
- PHYS 2425** **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, thermodynamics, sound and wave motion. Prerequisite: MATH 2413. Corequisite: MATH 2414.
- PHYS 2426** **Technical Physics II** (4,3,3). Topics include electricity, magnetism, light and optics. Prerequisite: PHYS 2425 or permission of instructor. Corequisite: MATH 2415.

### Psychology

- PSYC 0011** **Freshmen Orientation and Adjustment** (0,1,0). This course is designed to serve as a group study approach to student problems. Course content will evolve out of student interests, needs, and problems. Areas of study include adjusting to college, use of library, acquiring basic study skills, improving personality, and 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 prior to the fall semester.
- PSYC 2301** **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.
- PSYC 2308** **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, psychologists, pediatricians, anthropologists, and many others who have devoted themselves to the scientific study of child behavior. Prerequisite: none; PSYC 2301 recommended.
- CDEC 1454** or
- PSYC 2314** **Human Growth and Development** (3,3,0). The study will concern the physical, mental, and emotional characteristics of the individual from conception throughout the lifespan. 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.

- PSYC 2315** **Psychology of Adjustment** (3,3,0). This course is a presentation of psychological principles which are fundamental to personal and social adjustment.
- PSYC 2319** **Social Psychology** (3,3,0). Theories of individual behavior on the social environment are surveyed. Topics include the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Prerequisite: PSYC 2301 or 1301.
- SOCI 2326**

### **Pulp and Paper Technology**

- PPRT 1301** **Introduction to Pulp and Paper Technology** (3,3,0). An overview of the processes involved in the manufacture of paper and the career areas in the pulp and paper industry in the United States.
- PPRT 1311** **Pulp Technologies** (3,3,0). A survey of current technologies utilized in creating pulp for paper products including physical and chemical characteristics of wood and cellulose. Emphasis on the chemical changes in the manufacturing of paper.
- PPRT 1345** **Paper Machines: Wet End Processes** (3,3,0). Instruction in paper machine operations beginning with fiber preparation through the press section and drying processes.
- PPRT 1349** **Washing and Bleaching Technologies** (3,3,0). A continuation of the study of technologies involved in generation of paper pulp. Emphasis on the chemical processes required to complete the pulping process and the chemistry of wood with particular emphasis on polysaccharide relationships.
- PPRT 1391** **Environmental Stewardship and Controls** (3,3,0). A course emphasizing sound environmental practices within the pulp and paper industry. Includes sustainable forestry initiatives (SFI), waste minimization, waste water treatment and air emissions control.
- PPRT 2286** **Internship** (2,0,6). An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience.
- PPRT 2335** **Finished Paper Products Technology (Paper Machine/Dry End Processes)** (3,3,0). Instruction in paper machine operations involved in the production of the finished product including drying, surface treatments, and dry-end operations and tests.



- PPRT 2372 Alkaline Chemical Recovery (3,3,0).** A survey of technologies used to recover spent pulping chemicals and generate steam. Operations of the evaporators, recovery boiler and caustic plant will be examined.

### Reading

- READ 0031 Developmental Reading I (0,3,2).** A course designed to improve reading proficiency necessary to pursue college-level studies through development of the individual student's vocabulary, comprehension, and critical thinking skills. Prerequisite: TASP or ACT score of 13 or below, Nelson-Denny Reading scores of 7.9 or below. Nontransferable and does not count toward an Associate Degree.
- READ 0032 Developmental Reading II (0,3,2).** A course designed to improve reading proficiency necessary to pursue college-level studies through development of the individual student's vocabulary, comprehension, and critical thinking skills. Prerequisite: TASP or ACT score of 14-17, Nelson-Denny Reading scores of 8.0-9.9. Nontransferable and does not count toward an Associate Degree.

### Real Estate

- RELE 1301 Principles of Real Estate (3,3,0).** An overview of licensing as a real estate broker and salespersons, ethics of practice, titles to and conveyancing of real estate, legal description, law of agency, deeds, encumbrances and liens, distinctions between personal and real property, contacts, appraisal, finance and regulations, closing procedures, and real estate mathematics. Also includes federal, state, and local laws relating to housing discrimination, housing credit discrimination, and community reinvestment.
- RELE 1303 Real Estate Practice (3,3,0).** A study of the central purposes and functions of an appraisal, social and economic determinant of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting.
- RELE 1309 Real Estate Law (3,3,0).** Provides a study of legal concepts of real estate, and description, real property right, estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of title.
- RELE 1311 Law of Contracts (3,3,0).** A review of real estate contracts required by Section 6A (3) of the Real Estate License Act with emphasis on general contract law requirements. Also covers the purpose, history, and working process of the Broker-Lawyer Committee. Includes preparation of real estate contract forms with emphasis on the most commonly used forms.

- RELE 1319 Real Estate Finance (3,3,0).** An overview of the U. S. monetary system, primary and secondary money markets, sources of mortgage loan, federal government programs, loan applications, processes and procedures, closing costs, alternative instruments, laws affecting mortgage lending, and the State Housing Agency.
- RELE 1321 Real Estate Marketing (3,3,0).** A study of real estate professionalism and ethics; characteristics of successful salesperson; time management; psychology of marketing; listing procedures; advertising; negotiating and closing financing; and the deceptive trade practice act, consumer protection act, and commercial code.
- RELE 1325 Real Estate Mathematics (3,3,0).** Mathematical logic and basic arithmetic skills including percentages, interest, time-valued money, depreciation, amortization, proration, and estimation of closing statement.
- RELE 2301 Law of Agency (3,3,0).** A study of law of agency including principal-agent and master-servant relationships, the authority of an agent, the termination of an agent's authority, the fiduciary and other duties of an agent, employment law, deceptive trade practices, listing or buying procedures, and the disclosure of an agency.
- RELE 2331 Real Estate Brokerage (3,3,0).** A study of law of agency, planning and organization, operational policies and procedure, recruiting, selection and training of personnel, records and control, and real estate firm analysis and expansion criteria.

### American Sign Language

- AMSL 1301 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.
- AMSL 1302 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\*

- SMER 1291 Special Topics in Small Engine Mechanic and Repairer (2,1,3).** Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.



- SMER 1501** **Outboard Tune-up** (5,1,9). An introductory course in tune up procedures for both two and four stroke outboard motors including analysis, valve train, ignition, fuel, cooling, and drive systems service. Emphasis on appropriate equipment and procedures.
- SMER 1504** **Outboard Service Principles** (5,2,11). Principles of operation of two and four stroke outboard motors and their associated systems. Emphasis on troubleshooting and analysis of faulty systems and their individual components.
- SMER 1525** **Small Engine Electrical Systems** (5,1,9). Theory of operation and test procedures and equipment used in the diagnosis and repair of the various circuits which make up a small engine electrical system.
- SMER 1528** **Small Engine Service Principles** (5,1,9). Principles of operation of two and four stroke small engines and their associated systems. Emphasis on troubleshooting and the analysis of faulty systems and their components.
- SMER 1531** **Small Engine Tune-up** (5,1,9). Tune up procedures for two and four stroke small engines including analysis, valve train, ignition fuel, starter, cutter, and safety compliance systems. Emphasis on the use of appropriate equipment and procedures.
- SMER 1534** **Small Engine Two Stroke Overhaul** (5,1,9). Overhaul procedures for two stroke small engines as used in lawn and garent applications. Emphasis on proper shop procedures for disassembly, inspection, servicing, and assembly of two stroke small engines and their applicable drive systems.
- SMER 1537** **Small Engine Four Stroke Overhaul** (5,1,9). Overhaul procedures for four stroke small engines, transmissions, and transaxles. Emphasis on shop procedures for disassembly, assembly, component inspection, component measurement, component servicing, transmission troubleshooting, transmission inspection, and transaxle inspection.

\*This is a semester hour program based on 12 week quarters.

## Sociology

- SOCI 1301** **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, the major social processes, and analysis of the simpler relations of daily living as illustrative material.

- SOCI 1306** **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 incurred in society. One problem will be selected for intensive study. Prerequisite: SOCI 1301 or sophomore standing.
- SOCI 2301** **Marriage and Family** (3,3,0). A 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.
- SOCI 2326** **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: PSYC 2301 or SOCI 1301.
- PSYC 2319** or
- SOCI 2337** **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.
- CRIJ 1307** or

### Spanish

- SPAN 1300** **Conversational Spanish** (3,3,0). This course is designed to improve the student's oral communication skills and pronunciation. The study includes audio-lingual activities, basic vocabulary, practice life situations. This course may not substitute for Spanish 1411 or be counted as part of the core requirements for a baccalaureate degree or majors in Spanish.
- SPAN 1310** **Conversational Spanish** (3,3,0). Continuation of Spanish 1300. Additional work and practice in conversation, pronunciation, expressions, and class discussion of varied topics of every day situations. This course may not substitute for Spanish 1412 or be counted as part of the core requirements for a baccalaureate degree or majors in Spanish.
- SPAN 1411** **Elementary Spanish I** (4,3,2). A beginning level course which introduces students to fundamental language skills in listening comprehension, speaking, reading and writing. Study includes basic vocabulary, grammatical structures, and culture of the Spanish-speaking peoples. Two hours a week in laboratory practice required.
- SPAN 1412** **Elementary Spanish II** (4,3,2). Continuation of Spanish 1411 with emphasis on communication skills. Two hours a week in laboratory practice required. Prerequisite: Spanish 1411, two units of high school Spanish, or an appropriate score on placement test.



**SPAN 2311 Intermediate Spanish I (3,3,0).** An intermediate level course designed to improve the student's language skills. Review of language structures, greater emphasis on conversation, vocabulary building, reading, guided composition, and culture. Class conducted mostly in Spanish. Prerequisite: Spanish 1412, three units of high school Spanish, or an appropriate score on placement test.

**SPAN 2312 Intermediate Spanish II (3,3,0).** Continuation of Spanish 2311. More advanced study in oral and written expression, reading periodicals and literature. Prerequisite: Spanish 2311.

### Speech

**SPCH 1144 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.

**SPCH 1315 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.

**SPCH 1316 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 discussions and speaking. Prerequisite: Speech 1315.

**SPCH 1321 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. Includes panel and committee discussions, and special occasion speeches.

**SPCH 1342 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.

**SPCH 2341 Oral Interpretations (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\*

- WLDG 1521** **Introduction to Welding Fundamentals** (5,2,13). An introduction to the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy.
- WLDG 1525** **Introduction to Oxy-Fuel Welding and Cutting** (5,3,12). An introduction to oxy-fuel welding and cutting, including history and future in welding, safety, setup and maintenance of oxy-fuel welding, and cutting equipment and supplies.
- WLDG 1528** **Introduction to Shielded Metal Arc Welding (SMAW)** (5,2,13). An introduction to shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.
- WLDG 1530** **Introduction to Gas Metal Arc (MIG) Welding** (5,2,13). A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools/equipment. Instruction in various joint designs.
- WLDG 1534** **Introduction to Gas Tungsten Arc (TIG) Welding** (5,3,12). An introduction to the principles of gas tungsten arc welding (GTAW), setup/use of GTAW equipment, and safe use of tools and equipment. Welding instruction in various positions on joint designs.
- WLDG 1535** **Introduction to Pipe Welding** (5,3,12). An introduction to welding of pipe using the shielded metal arc welding process, including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G welds using various electrodes.
- WLDG 2506** **Intermediate Pipe Welding** (5,2,13). A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Position of welds will be 1G, 2G, 5G, and 6G using various electrodes. Topics covered include electrode selection, equipment setup, and safe shop practices.
- WLDG 2553** **Advanced Pipe Welding** (5,3,12). Advanced topics involving welding of pipe using the shielded metal arc welding process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes.

\*This is a semester hour program based on 12 week quarters.





## INDEX

Absentee Policy .....	33-34
Academic Regulations, General .....	35-36
Accounting .....	132
Administrative Officers, Chairs, Staff .....	8
Admission Requirements/Testing/Graduation .....	25-29
Agricultural Science .....	56, 132-133
Air Conditioning/Refrigeration .....	57, 133-134
Anthropology .....	58, 135
Art .....	59, 60, 135-137
Astronomy .....	197
Athletics & Sports .....	44
Audit Policy .....	48
Auto Body Repair .....	61, 137-138
Automotive Mechanics .....	62, 138-139
Banking and Finance .....	68, 140-141
Behavioral Science .....	63
Biology .....	64, 141-143
Board of Trustees .....	2
Business Administration .....	66, 143-144
Business Marketing .....	67, 144-145
Calendar .....	4-5
Change of Classes .....	34
Cheating Policy .....	34
Chemistry .....	69, 145-146
Child Development .....	70-71, 146-148
CLEP Examinations .....	32
Clubs and Organizations .....	41-44
Computer Technology and Information Systems .....	72-74, 149-153
Core Curriculum .....	30
Correspondence Credit .....	32
Cosmetology .....	75-76, 153-155
Credit by Examination .....	32
Criminal Justice Administration .....	77-78, 155-156
Diesel Mechanics .....	79, 156-157
Disabilities .....	37-38
Drafting Technology .....	80-81, 157-158
Drama .....	82, 159
Drug and Alcohol Abuse Counseling .....	83, 159-161
Economics .....	162
Electricity .....	84, 162-163
Electronics Technology .....	85-86, 163-165
Emergency Medical Technology .....	87-92, 165-169
Engineering .....	93, 169
English .....	170-172
Evening and Continuing Education .....	51-54
Examinations .....	52-55
Faculty .....	9-21
Fees .....	45-47
Financial Assistance .....	50-51
Foreign Language (French or Spanish) .....	94, 172-173, 203-204
General Information .....	22-23
Geography .....	173
Geology .....	173-174
Government .....	95, 174
Grade Reports .....	36
Graduation Requirements .....	28-29
Guarantee .....	28

History .....	96, 174-175
Housing .....	49
Index of Degrees/Certificates .....	6-7
Journalism .....	97, 175-176
Late Registration .....	49
Library Services .....	39
Management .....	98, 176-177
Marketing .....	65-67, 144-145
Mass Communications .....	99, 177
Mathematics .....	100, 178-180
Medical Technology .....	101
Music .....	102-103, 180-186
Non-Credit Courses .....	52-55
Nursing: Associate Degree, Transitional, Vocational .....	104-118, 187-191
Office Careers .....	119, 192-193
Office Professional .....	121, 193-194
Philosophy .....	194-195
Physical Education .....	195-197
Physical Science .....	198
Physics .....	122, 197-198
Pinkerton Center .....	41
Pre Professional Studies .....	123
President's Message .....	3
Probation .....	32
Psychology .....	198-199
Publications, Student .....	44
Pulp and Paper Technology .....	125, 199-200
Radiologic Technology .....	126
Reading .....	200
Re-admission Policy .....	27
Real Estate .....	127, 200-201
Refund Policy .....	47
Rehabilitation Assistance .....	52
Religion .....	194
Respiratory Care Therapist .....	128
Rules and Regulations .....	33-36
Scholarships .....	51-52
Scholastic Honors .....	36
Scholastic Probation/Suspension .....	32
Second Chance Policy .....	33
Sign Language .....	201
Small Engine Repair .....	129, 201-202
Social Science Studies .....	130
Sociology .....	202-203
Speech .....	204
Student Activities .....	40
Student Development Services .....	38
Student Service Fee .....	45
Student Services .....	37-38
Student Support Services/Educational Talent Search .....	40
Suspension .....	32-33
Testing .....	26, 38
Texarkana College & Texas A&M Univeresity-Texarkana	
Cooperative Science Program .....	65
Tuition .....	45
Undergraduate Credit Hour Limitation .....	31
Welding .....	131, 205
Withdrawal from Classes .....	36-37

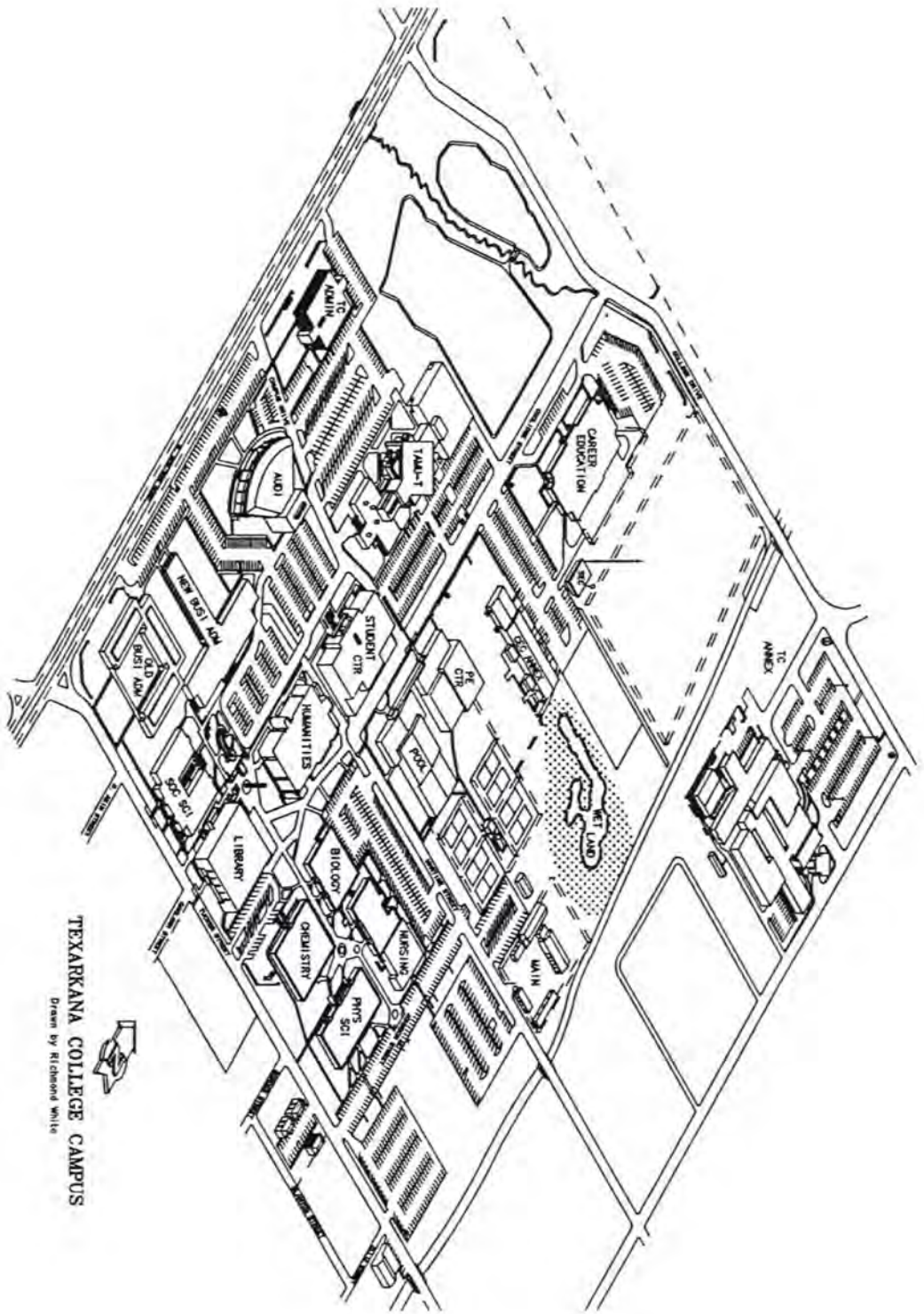












TEXARKANA COLLEGE CAMPUS

Drawn by Richmond White

