

ABDR Autobody Repair

ABDR 1419 Basic Metal Repair 2-7-4
In-depth coverage of basic metal principles and working techniques including proper tool usage and product application.

ABDR 1431 Basic Refinishing 2-6-4
An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts. Recommended prerequisite or co-requisite: ABDR 1419.

ABDR 1441 Structural Analysis and Damage Repair I 2-7-4
Expanded training in the roughing and shaping procedures on automotive sheet metal necessary to make satisfactory body repairs. Emphasis on the alignment of component parts such as doors, hood, front-end assemblies, and deck lids. Recommended prerequisites or co-requisites: ABDR 1419 and 1471.

ABDR 1442 Structural Analysis and Damage Repair II 3-3-4
Continuation of general repair and replacement procedures for damaged structural parts and collision damage. Recommended prerequisites: ABDR 1419, 1441, and 1471.

ABDR 1449 Automotive Plastic and Sheet Molded Compound Repair 2-6-4
A comprehensive course in repair of interior and exterior plastics including the use of various types of adhesives and plastic welding. Recommended prerequisite or co-requisite: ABDR 1419.

ABDR 1471 Advanced Auto Body Welding 2-7-4
This course is designed to provide the student with instruction in the use of that gas and electrical welding and cutting processes required in Auto Collision Repair. Basic gas welding and cutting, GMAW (MIG), resistance spot welding, and plasma arc cutting will be covered. Emphasis will be placed on safety; equipment selection and set up; the design, preparation, and fitting of weld joints; and the application of correct welding procedures to specific repair requirements. Recommended prerequisite or co-requisite: ABDR 1419.

ABDR 1472 Auto Body Glass, Hardware and Trim 2-7-4
This course is designed to provide the student with instruction in the removal, replacement, and service of both stationary and moveable automotive glass as well as related interior and exterior hardware such as manual and power lock mechanisms and regulators. The removal and replacement/repair of exterior and interior trim is also covered. Recommended prerequisite or co-requisite: ABDR 1419.

ABDR 2402 Auto Body Mechanical and Electrical Service 2-7-4
A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting. Recommended prerequisite or co-requisite: ABDR 1419.

ABDR 2435 Structural Analysis and Damage Repair IV 2-6-4
Extension of Structural Analysis and Damage Repair II providing skill development in the auto body application of theories to the repair and replacement of complete body units. Recommended prerequisites: ABDR 1419, 1442 and 1471.

ABDR 2437 Structural Analysis and Damage Repair V 2-7-4
Advanced development in the operation of equipment and the procedures involved in the repair of body structures. Special emphasis on conducting a thorough damage analysis as well as demonstrating proper pulling and anchoring techniques. Recommended prerequisites: ABDR 1419, 1471, and 2435.

ABDR 2449 Advanced Refinishing 2-7-4
Skill development in multi-stage refinishing techniques. Further development in identification of problems and solutions in color matching and partial panel refinishing. Recommended prerequisite: ABDR 1419 and 1431.

ABDR 2488 Internship- Autobody/Collision and Repair Technology/Technician 1-18-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and employer. Recommended prerequisite: Satisfactory completion of all other technical courses in the program.

ACCT Accounting

ACCT 2301 Principles of Financial Accounting 3-0-3
An introduction to accounting concepts and their application in transaction analysis and financial statement preparation; analysis of financial statements; and asset, liability, and equity accounting in proprietorships, partnerships, and corporations.

ACCT 2302 Principles of Managerial Accounting 3-0-3
An introduction to the use of accounting information as an aid to management decision making. Topics include cost behavior, budgeting, responsibility accounting, cost control, and product costing. Prerequisite: ACCT 2301.

ACNT Accounting

ACNT 1311 Introduction to Computerized Accounting 2-4-3
Introduction to utilizing the computer in maintaining accounting records, making management decisions, and processing common business applications with primary emphasis on a general ledger package. Prerequisites: ACNT 1325 or equivalent recommended.

ACNT 1325 Principles of Accounting I 2-4-3
A study of accounting concepts and their application in transaction analysis and financial statement preparation and asset and equity accounting in proprietorships and corporations. Emphasis on accounting cycle for service and merchandising enterprises.

ACNT 1326 Principles of Accounting II 2-4-3
A study of the fundamentals of managerial accounting. Emphasis on accounting for a manufacturing concern, budgeting, planning, management decision making, and analysis of financial reports. Prerequisites: ACNT 1325 or equivalent recommended.

ACNT 1331 Federal Income Tax: Individual 3-0-3
Basic instruction in the tax laws as currently implemented by the Internal Revenue Service providing a working knowledge of preparing taxes for the individual.

AERM Aviation Maintenance Technology

Not offered in Texas

AERM 1203 Shop Practices-G 2-2-2

An introduction to the correct use of hand tools and equipment and precision measurement; identification of aircraft hardware; and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.

AERM 1205 Weight and Balance-G 2-2-2

An introduction to Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight and balance calculations, and appropriate maintenance record entries.

AERM 1208 Federal Aviation Regulations-G 2-2-2

A course in the use and understanding of the Federal Aviation Administration and aircraft manufacturers' publications, forms, and records; and the exercise of mechanic privileges within prescribed limitations.

AERM 1210 Ground Operations-G 2-2-2

An introductory course in fuels, servicing methods and procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

AERM 1243 Instruments and Navigation/ Communications-G 2-1-2

A study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations.

AERM 1254 Aircraft Composites-A 2-2-2

A study of the inspection and repair of composite, fiberglass, honeycomb, and laminated structural materials including doors, windows, bonded structures, and interior furnishings.

AERM 1314 Basic Electricity-G 2-4-3

A study of aircraft electrical systems and their requirements including the use of ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions.

AERM 1340 Aircraft Propellers-P 2-4-3

Fundamentals of construction of propellers. Skill development in inspection, servicing, and repair of fixed-pitch, constant-speed, and feathering propellers and governing systems. Instruction in removal, balancing, and installation of propellers.

AERM 1357 Fuel Metering and Induction System-P 2-4-3

A study of fuel metering and induction systems used on reciprocating and turbine engines including fuel metering systems, carburetors, induction systems, heat exchangers, and cooling systems.

AERM 1444 Aircraft Reciprocating Engines-P 3-4-4

A study of reciprocating engines and their development, operating principles, and theory. Instruction in engine instruments, lubricating, and exhaust systems.

AERM 1445 Airframe Electrical Systems-A 3-4-4

A study of airframe electrical systems including installation, removal, disassembly, and repair of electrical components and related wiring.

AERM 1449 Hydraulic, Pneumatic, and Fuel Systems-A 3-4-4

Skill development in inspecting, servicing, and maintaining aircraft fluid systems including hydraulics, pneumatics, and fuel. Application of basic concepts through detailed maintenance procedures.

AERM 1452 Aircraft Sheet Metal-A 2-6-4

A course in inspection and repair of sheet metal structures including forming, lay out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners.

AERM 1456 Aircraft Power Plant Electricity 3-4-4

Theory, operation, and maintenance of powerplants including electrical, ignition, starting, and fire protection systems.

AERM 2231 Airframe Inspection-A 2-2-2

A study of the materials and procedures for completing a One Hundred Hour Inspection as per Federal Aviation Regulations and manufacturers' service information.

AERM 2341 Power Plant Auxiliary Power Units-P2-3-3

General principles of auxiliary power unit (APU) and powerplant systems and components.

AERM 2351 Aircraft Turbine Engine Overhaul-P 2-4-3

Topics address inspection, disassembly, reassembly, and replacement of gas turbine engines, sections, and components and operational troubleshooting and analysis.

AERM 2370 A&P Mechanic General Course 3-0-3

A course intended to prepare experienced aircraft mechanics to successfully complete the written, oral and practical exams for certification by the Federal Aviation Administration as Aviation Maintenance Technician. In-depth coverage of topics for A&P certification will include maintenance publications, FAA Regulations, weight & balance determination, blueprints, diagrams, corrosion control, basic electricity, aircraft materials and hardware, basic math and physics, basic aerodynamics and aircraft inspection fundamentals.

AERM 2371 Aircraft Airframe Course 3-0-3

A course intended to prepare experienced aircraft mechanics to successfully complete the written, oral and practical exams for certification by the Federal Aviation Administration as an Airframe Maintenance Technician. An in-depth coverage of topics pertaining to Airframe certification to include inspection, fabrication and repair of aircraft structures and components; application of aircraft finishes; sheet metal and composite structures; fuel systems; instrumentation; hydraulics; pneumatics and airframe electrical systems.

AERM 2372 Aircraft Power Plants and Systems 3-0-3

A course intended to prepare experienced aircraft mechanics to successfully complete the written, oral and practical exams for certification by the Federal Aviation Administration as a Powerplant Maintenance Technician. An in-depth coverage of topics pertaining to Power plant certification to include proper technique and procedures for maintaining, servicing, overhaul and inspections of both reciprocating and turbine engines. Other subjects to be covered include engine electrical, fuel, oil, cooling and propeller subsystems.

AIRP Aviation Science see also AVIM

AIRP 1305 Aircraft Science 3-0-3

An introduction to the study of basic sciences in the aeronautical field as they may be applied to theoretical and practical application in aircraft construction and design.

ANTH Anthropology

ANTH 2301 Physical Anthropology 3-0-3
Principles of physical anthropology, human evolution, race, heredity, the organic basis of culture, and cultural history through the Paleolithic stage.

ANTH 2302 Introduction to Archeology 3-0-3
Overview of human origins and biocultural adaptations. Introduces methods and theory in the excavation and interpretation of material remains of past cultures.

ANTH 2346 General Anthropology 3-0-3
Study of human beings, their antecedents and related primates, and their cultural behavior and institutions. Introduces the major sub-fields: physical and cultural anthropology, archeology, linguistics, and ethnology.

ANTH 2351 Cultural Anthropology 3-0-3
Study of human behavior (nations and societies) the world over, comparing and describing their cultural patterns. An introduction to the various theories and anthropologists is reviewed as well as the relationship of Cultural Anthropology to the other social sciences (Psychology, Sociology, History, etc.).

ARTC Graphics and Printing *see also GRPH*

ARTC 1313 Digital Publishing I 2-4-3
The fundamentals of using digital layout as a primary publishing tool and the basic concepts and terminology associated with topography and page layout.

ARTC 2313 Digital Publishing II 2-4-3
Layout procedures from thumbnails and roughs to final comprehensive and printing; emphasis on design principles for the creation of advertising and publishing materials, and techniques for efficient planning and documenting projects. Recommended prerequisite: ARTC 1313

ARTC 2348 Digital Publishing III 2-4-3
A project based page layout course from conception to completion addressing design problems, preflight of files, color separations, and trapping techniques. Recommended prerequisite: ARTC 2313

ARTS Arts

ARTS 1303 Art History I 3-0-3
This course is a survey of the major and minor arts from prehistoric times to the 14th century. Prerequisite: None

ARTS 1304 Art History II 3-0-3
This course is a survey of the major and minor arts from the 14th century to the present. Prerequisite: None.

ARTS 1311 Design I 2-4-3
This course gives basic instruction in the elements and principles of design, with emphasis on the study of form and color theory. It is a study of design in two-dimensional formats. Prerequisite: None

ARTS 1312 Design II 2-4-3
This course gives basic instruction in the principles and elements of design as applicable to three-dimensional design problems. Prerequisite: None.

ARTS 1316 Drawing I 2-4-3
This course involves a study of the basic drawing skills including both abstraction and expressive drawing in charcoal, pencil, pen, wash, conte, and mixed media. Prerequisite: None

ARTS 1317 Drawing II 2-4-3
This course continues the development of skills, application of drawing media, and personal expression explored in Drawing I. Prerequisite: ARTS 1316.

AUMT Automotive Service and Repair

AUMT 1405 Introduction to Automotive Technology 3-3-4
An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance.

AUMT 1407 Automotive Electrical Systems 2-7-4
An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of batteries, charging and starting systems, and electrical accessories. Emphasis on electrical schematic diagrams and service manuals. Recommended prerequisites or co-requisites: AUMT 1405 and 2305.

AUMT 1410 Automotive Brake Systems 2-6-4
Operation and repair of drum/disc type brake systems. Emphasis on safe use of modern equipment. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. Recommended prerequisite or co-requisite: AUMT 1405.

AUMT 1416 Automotive Suspension and Steering Systems 2-6-4
A study of automotive suspension and steering systems including tire and wheel problem diagnosis, component repair, and alignment procedures. Recommended prerequisite or co-requisite: AUMT 1405.

AUMT 1419 Automotive Engine Repair 3-3-4
Fundamentals of engine operation, diagnosis and repair including lubrication systems and cooling systems. Emphasis on overhaul of selected engines, identification and inspection, measurements, and disassembly, repair, and reassembly of the engine. Recommended prerequisites: AUMT 1405, 2305 and 2434.

AUMT 1445 Automotive Heating and Air Conditioning 2-6-4
Theory of automotive air conditioning and heating systems. Emphasis on the basic refrigeration cycle and diagnosis and repair of system malfunctions. Covers EPA guidelines for refrigerant handling and new refrigerant replacements. Recommended prerequisites: AUMT 1405, 1407, 1472 and 2437.

AUMT 1471 Automotive Fuel Systems 2-7-4
This course provides the student with a working knowledge of automotive fuel systems. Carburetors, fuel pumps, filter systems, air fuel ratios, electronic fuel injection and computer controlled systems, and exhaust emission systems will be covered. The student will troubleshoot, diagnose, repair and adjust these systems. Recommended prerequisites: AUMT 1405, 1407, 1472, 2305 and 2437.

AUMT 1472 Automotive Computer Systems 2-7-4
This course provides the student with a working knowledge of automotive computer systems. It includes principles of operation, components and function, tools and test equipment, diagnosis, and service and repair of automotive computerized systems. Recommended prerequisites: AUMT 1405, 1407, 2437.

AUMT 2305 Theory of Automotive Engines 2-2-3
Fundamentals of engine operation and diagnosis including lubrication and cooling systems. Emphasis on identification of components, measurements, inspections, and repair methods. Recommended prerequisite or co-requisite: AUMT 1405.

AUMT 2413 Automotive Drive Train and Axles 2-6-4

A study of automotive clutches, clutch operation devices, manual transmissions, transaxles, and differentials with emphasis on the diagnosis and repair of transmissions and drive lines. Recommended prerequisite or co-requisite: AUMT 1405.

AUMT 2425 Automotive Automatic Transmission and Transaxle 2-6-4

A study of the operation, hydraulic principles, and related circuits of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and proper repair techniques. Recommended prerequisite or co-requisite: AUMT 2413.

AUMT 2434 Automotive Engine Performance Analysis II 2-7-4

Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems; and proper use of advanced engine performance diagnostic equipment. Recommended prerequisites: AUMT 1407, 1471, 1472, 2305, and 2437.

AUMT 2437 Automotive Electronics 3-3-4

Topics address electrical principles, semiconductor and integrated circuits, digital fundamentals, microcomputer systems, and electrical test equipment as applied to automotive technology. Recommended prerequisites: AUMT 1405 and 1407.

AUMT 2488 Internship - Automobile/Automotive Mechanics Technology/Technician 1-18-4

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and employer. Recommended prerequisite: Satisfactory completion of all other technical courses in the programs.

AVIM Aviation Science see also AIRP**AVIM 2331 Airline Management 3-0-3**

An examination of the organization, operation, and management of airlines. Topics include financing, aircraft selection, route feasibility studies, load factors, and marketing.

AVNC Aviation Maintenance Technology see also AERM**AVNC 2337 Landing Gear, Hydraulic, and Fuel Systems-A 2-3-3**

Advanced concepts of commercial fuel and hydraulic systems, landing gear, pneumatic systems, and safety.

BCIS Computer Science see also COSC**BCIS 1405 Business Computer Applications 3-3-4**

Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the internet.

BMGT Business Administration and Management see also BUSG, HRPO and MRKG**BMGT 1301 Supervision 3-0-3**

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 Management 3-0-3

Concepts, terminology, principles, theory, and issues that are the substance of the practice of management.

BMGT 1325 Office Management 3-0-3

Systems, procedures, and practices related to organizing and planning office work, controlling employees' performance, and exercising leadership skills.

BMGT 2370 Management Applications I 1-5-3

A management laboratory that emphasizes management decision-making skills that are necessary for the modern manager to successfully deal with resource problems in the work place and career field. The course is designed for students desiring to further their management training by applied learning techniques utilizing decision-making case studies, computer-assisted models, or other instructional techniques. It serves as a program Capstone for those students whose situation precludes an internship. The course may be repeated (if topics and learning outcomes vary). Prerequisite: Consent of the Department Chair.

BMGT 2371 Management Applications II 1-5-3

A management laboratory that emphasizes management decision-making skills that are necessary for the modern manager to successfully deal with resource problems in the work place and career field. The course is designed for students desiring to further their management training by applied learning techniques utilizing decision-making case studies, computer-assisted models, or other instructional techniques. It serves as a program Capstone for those students whose situation precludes an internship. Prerequisite: BMGT 2370 and Consent of the Department Chair.

BMGT 2488 Internship - Business Administration and Management, General 1-18-4

A basic, intermediate, or advanced type of non-health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the faculty or the work supervisor. An internship may be a paid or unpaid learning experience. Prerequisite: Consent of the Department Chair.

BMGT 2489 Internship - Business Administration and Management, General 1-18-4

A basic, intermediate, or advanced type of non-health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the faculty or the work supervisor. An internship may be a paid or unpaid learning experience. Prerequisites: BMGT 2488 and Consent of the Department Chair.

BUSG Business Administration and Management see also BMGT, HRPO and MRKG**BUSG 1315 Small Business Operations 3-0-3**

Central Campus Only. A course in the unique aspects of managing a small business. Topics address management functions including how managers plan, exercise leadership, organize, and control the operations. Members of the Students in Free Enterprise (SIFE) organization that participate during the entire training program can be awarded credit for this course with the approval of the SIFE Faculty Advisor.

BUSG 1370 Small Business Accounting 3-0-3

A course designed to introduce small business owners to basic accounting/financial information necessary to the successful operation of a business. Topics covered include, but are not limited to, cost behavior, cost-volume-profit relationships, budgeting, relevant cost, pricing decisions, payroll accounting and taxes.

BUSG 1371 Entrepreneurship and Business Plan Development 3-0-3

Involves the development and presentation of a plan to create or expand a business. It provides the student with an opportunity to develop and demonstrate a mastery of the essential competencies required for business opportunity analysis, the development of a marketing plan, and the development of a business financial plan. Students will prepare a business plan for a business that they want to develop or expand.

BUSG 2305 Business Law/Contracts 3-0-3

Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency.

BUSG 2309 Small Business Management 3-0-3

A course on how to start and operate a small business. Topics include facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.

BUSI Business Administration and Management**BUSI 1301 Business Principles 3-0-3**

Introduction to the role of business in modern society. Includes overview of business operations, analysis of the specialized fields within the business organization, and development of a business vocabulary.

BUSI 1307 Personal Finance 3-0-3

Personal and family account budgets, budgetary controls, bank accounts, charge accounts, borrowing, investing, insurance, standards of living, renting, home ownership, wills, and trust plans.

BUSI 1311 Salesmanship 3-0-3

Principles of personal salesmanship including methods and tasks applicable to a wide variety of industries and commercial settings.

BUSI 2301 Business Law 3-0-3

Principles of law which form the legal framework for business activity.

CBFM Maintenance Technology see also CNBT, ELPT, MBST, PFPB, and WDWK**CBFM 1334 Interior and Exterior Painting and Refinishing 2-4-3**

Introduction to interior and exterior painting and refinishing for commercial and residential applications. Recommended prerequisite or co-requisite: CRPT 1429.

CBFM 2487 Internship–Building/Property Maintenance and Manager 1-18-4

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and employer. Recommended prerequisite: Satisfactory completion of all other technical courses in the program.

CDEC Early Childhood Professions

*All CDEC courses require a lab except CDEC 1195.

CDEC 1195 Special Topics in Child Care 1-0-1

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. This course has different topics and may be repeated.

CDEC 1303 Family and the Community 2-2-3

A study of the relationship between the child, the family, the community, and early childhood educators, including a study of parent education, family and community lifestyles, multi-culture instruction, child abuse, and current issues.

CDEC 1311 Introduction To Early Childhood Education 2-2-3

An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, and current issues.

CDEC 1313 Curriculum Resources for Early Childhood Programs 2-2-3

Fundamentals of curriculum design and implementation in developmentally appropriate programs for young children.

CDEC 1317 Child Development Associate Training I 2-2-3

Based on the requirements for the Child Development Associate (CDA) National Credential. Three of the 13 functional areas of study include family, program management and professionalism. Topics on CDA overview, general observation skills, and child growth and development overview.

CDEC 1318 Nutrition, Health, and Safety 2-2-3

A study of nutrition, health, safety, and related activities, including skill development in management of issues, guidelines, and practices in nutrition, as well as community health, hygiene, safety, and legal implications. Integration of these principles apply to a variety of settings.

CDEC 1319 Child Guidance 2-2-3

An exploration of common behavior problems of young children in an early childhood setting. Emphasis on positive guidance techniques for effective behavior management. Practical application through direct participation in an early childhood setting.

CDEC 1321 The Infant and Toddler 2-2-3

A study of appropriate infant and toddler (birth to 3 years) programs, including an overview of development, quality caregiving routines, appropriate environments, materials and activities, and teaching/guidance techniques.

CDEC 1335 Early Childhood Development: 3-5 Years 2-2-3

This course covers the principles of normal growth and development from three to five years. Emphasis is on physical, emotional, and social development.

CDEC 1340 Instructional Techniques for Children with Special Needs 2-2-3

Exploration of development and implementation of curriculum for children with special needs. The focus is on how to adapt curriculum activities for children with special needs.

CDEC 1354 Child Growth & Development 2-2-3

A study of the principles of normal child growth and development from conception to adolescence. Focus on physical, cognitive, social, and emotional domains of development.

CDEC 1356 Emergent Literacy for Early Childhood 2-2-3

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based, integrated curriculum.

CDEC 1357 Math & Science for Early Childhood 2-2-3

An exploration of principles, methods, and materials for teaching young children math and science concepts through discovery and play.

CDEC 1358 Creative Arts for Early Childhood 2-2-3

An exploration of principles, methods, and materials for teaching young children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.

CDEC 1359 Children with Special Needs 2-2-3

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, educational intervention, available resources, referral processes, and the advocacy role and legislative issues.

CDEC 1371 Physical Development and Disorder in Children 2-2-3

This course is designed for the paraprofessional working in integrated early childhood settings. Roles and responsibility of the paraprofessional, including IEP and ISFP lesson plan teaching strategies, and hands-on training in physical management and care skills of the child with special needs are emphasized. Instruction in basic sign language, and an overview of current learning technologies to assist the child with disabilities, is included. Emphasis is placed on methods and materials for promoting activities of daily living.

CDEC 1391 Special Topics in Family Day Care Homes 2-2-3

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. The focus is on setting up a FDCH and activities for children.

CDEC 1393 Special Topics in Family Living & Parenthood 2-2-3

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.

CDEC 2322 Child Development Associate Training II 2-2-3

A continuation of the study of the requirements for the Child Development Associate (CDA) National Credential. The six functional areas of study include safe, healthy, learning environment, self, social, and guidance.

CDEC 2324 Child Development Associate Training III 2-2-3

A continuation of the study of the requirements for the Child Development Associate (CDA) National Credential. The four functional areas of study are creative, cognitive, physical, and communication.

CDEC 2326 Administration of Programs for Children I 2-2-3

A practical application of management procedures for early care and education programs, including a study of operating, supervising, and evaluating programs. Topics on philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication.

CDEC 2328 Administration of Programs for Children II 2-2-3

An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs.

CDEC 2341 The School Age Child 2-2-3

A study of appropriate age (5 to 13 years) programs, including an overview of development, appropriate environments, materials and activities, and teaching/guidance techniques.

CDEC 2384 Cooperative Education in Child Development 1-14-3

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the 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. This course may be repeated if topics and learning outcomes vary. Includes a lecture component.

CETT Computer Electronics Technology see also CPMT, EECT, ELMT, INTC and ITCC

CETT 1403 DC Circuits 3-3-4

A study of the fundamentals of direct current including Ohm's law, Kirchoff's laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements.

CETT 1405 AC Circuits 3-3-4

A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. Prerequisite: CETT 1403.

CETT 1421 Electronics Fabrication 3-3-4

A study of electronic circuit fabrication techniques including printed circuit boards, wire wrapping, bread boarding, and various soldering techniques.

CETT 1425 Digital Fundamentals 3-3-4

An entry level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combinational logic. Emphasis on circuit logic analysis and troubleshooting digital circuits.

CETT 1429 Solid State Devices 3-3-4

A study of diodes and bipolar semiconductor devices, including analysis of static and dynamic characteristics, bi techniques, and thermal considerations of solid state devices. Prerequisite or co-requisite: CETT 1405.

CETT 1441 Solid State Circuits 3-3-4

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis. Prerequisite: CETT 1429.

CETT 1449 Digital Systems 3-3-4

A course in electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counters, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits. Prerequisites CETT 1425 and CETT 1429.

CETT 1491 Special Topics in Computer Engineering Technology/Technician 3-3-4

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. This course was designed to be repeated multiple times to improve student proficiency. Prerequisites CETT 1429 and CETT 1449.

CETT 1509 DC-AC Circuits 4-3-5

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

CETT 2248/2249 Research and Project Design 2-0-2
Principles of electrical/electronic design encompassing schematics wiring diagrams, materials lists, operating characteristics, completion schedules, and cost estimates. Prerequisite: CETT 1491

CETT 2445 Color Television Repair 3-3-4
An advanced study of television theory and basic repair including television receiver tuning system, remote control, I-F amplifiers, automatic gain control and video amplifiers, television power supplies, and deflection circuits. Prerequisite CETT 1425 and CETT 1429

CETT 2489 Internship-Computer Engineering Technology/Technician 1-18-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

CHEF Hospitality Management see also HAMG, IFWA, PSTR, RSTO and TRVM

CHEF 1301 Basic Food Preparation 1-8-3
A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism.

CHEF 1305 Sanitation and Safety 3-0-3
The fundamentals of sanitation practices, laws, methods, and techniques of food handling for protection, safety, and accident prevention. Upon completion of this course, the student will have sufficient knowledge to pass the Educational Institute of National Restaurant Association (NRA) certification sanitation examination.

CHEF 1341 American Regional Cuisine 2-4-3
A study of the development of regional cuisine in the United States with emphasis on the similarities in production and service systems. Application of skills to develop, organize, and build a portfolio of recipe strategies and production systems. Prerequisite: CHEF 1301.

CHEF 1345 International Cuisine 2-4-3
The study of classical cooking skills associated with the preparation and service of international and ethnic cuisine. Topics include similarities between food production systems used in the United States and other regions of the world. Prerequisite: CHEF 1301.

CHEF 1410 Garde Manger 2-6-4
A study of specialty foods and garnishes. Emphasis on design, techniques, and display of fine foods. Subject includes history, soup, salads, cured and smoked foods, sausage, terrines, pates, galantines, hors d'oeuvres and appetizers. Prerequisite: CHEF 1301.

CHEF 2301 Intermediate Food Preparation 1-8-3
Continuation of previous food preparation course. Topics include the concept of pre-cooked food items, as well as scratch preparation. Covers full range of food preparation techniques. Prerequisite: CHEF 1301.

CHEF 2302 Saucier 2-3-3
Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with a variety of foods. Prerequisite: CHEF 1301.

CHEF 2332 Buffet Theory and Production 2-4-3
Advanced concepts in the construction of inedible display items. Emphasis on buffet production, presentation, and service. The student will produce tallow, butter, and ice sculptures, and organize a buffet layout. Prerequisite: CHEF 1301.

CHLT Mental Health Services See also CMSW, DAAC and PSYT

CHLT 1309 Community Ethics 3-0-3
Discussion of the role of ethics as it pertains to health care and community settings including ethical decision-making teamwork and the impact of illness on individual and social settings.

CJCR Criminal Justice See also CJLE, CJSA and SLPS

CJCR 1011 Basic Certification for Correctional Officers (1st of 2 courses) 160 clock hours
Preparation for certification required for employment with the Corrections Division of the Texas Department of Criminal Justice. Must include the objectives developed by the Corrections Division.

CJCR 1012 Basic Certification for Correctional Officers (2nd of 2 courses) 40 clock hours
Preparation for certification required for employment with the Corrections Division of the Texas Department of Criminal Justice. Must include the objectives developed by the Corrections Division.

CJCR 1304 Probation and Parole 3-0-3
A survey of the structure, organization, and operation of probation and parole services. Emphasis on applicable state statutes and administrative guidelines.

CJCR 1307 Correctional Systems and Practices 3-0-3
Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.

CJCR 1391 Special Topics in Corrections/Correctional Administration 3-0-3
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. Prerequisites: CRIJ 1301/CJSA1322 and CRIJ 2301/CJCR 2324 or CRIJ 2313/CJCR 1307 and consent of the Department Chair.

CJCR 1400 Basic Jail Course 4-1-4
Provides instruction in human relations, observation, evaluation of prisoners, booking procedures, classification, mug shots, fingerprinting, strip searches, meals, medical services, visitation, inmates rights and privileges, detention areas, key, knife and tool control, disturbances, riots, fire procedures, and release procedures. Taught in accordance with the current TCLEOSE instructor guides provided by the Commission for course #1005.

CJCR 2324 Community Resources in Corrections 3-0-3
An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

CJCR 2325 Legal Aspects of Corrections 3-0-3
A study of the operation, management, and legal issues affecting corrections. Analysis of constitutional issues involving rights of the convicted, as well as civil liability of correctional agencies and staff.

CJCR 2466 Practicum (or Field Experience) Corrections/Correctional Administration 1-27-4
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Prerequisite: Consent of the Department Chair.

MTMS 2272 Management and Learning Strategies 2-0-2
A course for leaders who want to explore further into the arena of training in organizations, including needs assessment, instruction techniques, and evaluation procedures. Also addressed is training for career changes, cross training, and the implications of fair labor standards.

MTMS 2370 Advanced Leadership 3-0-3
Advanced management study with an in-depth look at the differences and similarities of leadership and management. This course includes all elements of the management function, leadership styles, and communication.

MTMS 2371 Management Problems 3-0-3
Case study approach in practical application of management theory to the everyday problems of managers. Study groups work out their own solutions and exchange ideas with other groups in presentation and critique forums.

MTMS 2372 Ethics in Management 3-0-3
The purpose of this course is to study the major ethics theories and their relationship to business management. The course provides actual case studies in which ethical principles are used in solving today's business management problems.

PFPB Maintenance Technology see also CBFM, CNBT, CRPT, ELPT, MBST and WDWK

PFPB 2409 Residential Construction Plumbing I 3-3-4
Skill development in the procedures and techniques employed by a plumber in the rough-in and top-out stages of a new home or the remodeling of an older home. Recommended prerequisite or co-requisite: CRPT 1429.

PFPB 2445 Residential Construction Plumbing II 3-3-4
In-depth instruction in the setting of residential bathroom and kitchen plumbing fixtures. Recommended prerequisite: PFPB 2409.

PHED Physical Education

PHED 1100	Football and Basketball	0-3-1
PHED 1101	Softball	0-3-1
PHED 1102	Beginning Badminton	0-3-1
PHED 1103	Beginning Bowling	0-3-1
PHED 1104	Soccer	0-3-1
PHED 1106	Beginning Swimming	0-3-1
PHED 1107	Beginning Tennis	0-3-1
PHED 1108	Beginning Golf	0-3-1
PHED 1110	Karate I	0-3-1
PHED 1114	Volleyball	0-3-1
PHED 1115	Basketball	0-3-1
PHED 1116	Fitness Walking	0-3-1
PHED 1118	Jogging	0-3-1
PHED 1119	Racquetball	0-3-1
PHED 1120	Body Building	0-3-1
PHED 1123	Advanced Bowling	0-3-1
PHED 1124	Advanced Swimming	0-3-1
PHED 1125	Intermediate Tennis	0-3-1
PHED 1126	Advanced Golf	0-3-1
PHED 1129	Advanced Badminton	0-3-1
PHED 1131	Aerobics	0-3-1
PHED 1133	Weight Training	0-3-1
PHED 1136	Lifetime Fitness	0-3-1
PHED 1140	Karate II	0-3-1
PHED 1141	Intermediate Swimming	0-3-1
PHED 1142	Beginning Ballet	0-3-1

PHED 1143	Jazz Dance	0-3-1
PHED 1144	Yoga I	0-3-1
PHED 1145	Jujutsu	0-3-1
PHED 1146	Indoor Cycling	0-3-1
PHED 1147	Kickboxing/Aerobics	0-3-1
PHED 1153	Lifeguard Training	0-3-1

PHED 1130 Physical Conditioning 0-3-1
A course which introduces the student to the health-related components of physical fitness. Emphasis is on developing a personal fitness program based on sound physiological principles.

PHED 1138 Rhythmic Aerobics 0-3-1
This course is designed to improve cardiovascular conditioning through the use of musical movement. Both low-impact aerobic dance and step-aerobics will be used to improve cardiorespiratory functioning.

PHED 1151 Scuba Diving 0-3-1
PADI open-water, level-one certification may be earned.

PHED 1152 Scuba Diving II 0-3-1
Advanced open-water certification may be earned.

PHED 1158 Aquatic Fitness 0-3-1
This course is designed to promote fitness through the use of water-related activities compatible with a pool environment. Emphasis is on water resistance exercises, lap swimming, and a variety of aquatic games. The class is open to both swimmers and non-swimmers.

PHED 1159 Water Aerobics 0-3-1
This course is designed to promote cardiorespiratory conditioning through active participation in a wide variety of activities such as water walking, jogging, and rhythmic aerobics, and water resistance exercise. The course is open to both swimmers and non-swimmers.

PHED 1160 Beginning Casting and Angling 0-3-1
This course will include the fundamentals of bait casting, spinning, and spin casting. This course covers basic knowledge and understanding of angling techniques and concepts.

PHED 1301 Introduction Physical Fitness and Sport 3-0-3
A course which introduces the student to the fields of health, physical education, and recreation. Emphasis on the scope and organization of professional activities, opportunities and qualifications of the professional physical educator.

PHED 1304 Personal/Community Health I 3-0-3
A fundamental course in principles and problems of healthy living. Emphasis on current information and research as it applies to individuals' daily lives.

PHED 1306 First Aid 3-0-3
Health, knowledge and practice with regard to individual and group welfare; personal hygiene; community health problems; communicable disease control; and health organizations. Instruction in American National Red Cross first aid methods for emergency treatments of injuries and sudden illness. American Red Cross certification in Community CPR and Standard First-Aid Responding to Emergencies may be earned.

PHED 1308 Sports Officiating I 3-0-3
Theory and practice in techniques of officiating.

PHED 1321 Coaching/Sports/Athletics I 3-0-3
Techniques and theories underlying the coaching of men's and women's sports. Special emphasis upon AIDS, equipment, organization, and administration of the program.

PHED 2155 Water Safety 0-3-1
 Participation and instruction in advanced aquatic activities. Prerequisite: Demonstrated swimming skills.

PHIL Philosophy

PHIL 1301 Introduction to Philosophy 3-0-3
 A general introduction to critical and reflective thinking as applied to the basic problems of existence and the meaning of human life and institutions; study of methods and types of evidence utilized by authority, intuition, revelation, reason and scientific methods, and a study of the nature of philosophy, including its relation to religion, science, and art.

PHIL 1304 Introduction to World Religions 3-0-3
 A survey course dealing with the origins, tenets, and development of the major world religions. Deductive method used to understand religion as a phenomenon in man's life. Discussion of Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

PHIL 1316 History of Religions I 3-0-3
 In a historical survey of major religions, this course focuses on the history and literature of Ancient Judaism during the Old Testament period emphasizing its development of social, political, and religious institutions and ideas.

PHIL 1317 History of Religions II 3-0-3
 In a historical survey of major religions, this course focuses on the history and literature of Early Christianity during the New Testament period emphasizing its origin, development, and expansion of religious institutions and ideas.

PHIL 2303 Introduction to Logic 3-0-3
 Nature and methods of correct reasoning, deductive proof, inductive proof, fallacies, and arguments.

PHIL 2306 Introduction to Ethics 3-0-3
 Study of basic principles of the normal life, with critical examination of traditional and current theories of the nature of goodness, happiness, duty, and freedom.

PHIL 2307 Introduction to Social and Political Philosophy 3-0-3
 Critical examination of the major philosophical theories concerning the organization of societies and the role and scope of government.

PHYS Physical Science

PHYS 1305 Survey of Physics 3-0-3
 A survey of the fundamental principles of physics designed to acquaint students with the basic concepts of classical and modern physics, which are the foundation of everyday phenomena. This course is only available, under contract, to the Navy Pace Campus.

PHYS 1311 Survey of Astronomy 3-0-3
 A non-mathematical approach to the solar system. Beginnings of astronomy, motions of celestial bodies, members of the solar system, atoms and light are studies. Only offered as a telecourse.

PHYS 1405 Elementary Physics I 3-3-4
 A survey of the fundamental principles of physics designed to acquaint students with the basic concepts of classical and modern physics which are the foundation of everyday phenomena. Offered at C&I locations only.

PHYS 1411 Introductory Astronomy I 3-2-4
 This course is an introduction to Astronomy. The approach is very qualitative, but simple mathematics skills are required. The course is designed to explain the origin of the Solar System including the Sun and its nine planets, and smaller bodies - satellites (moon) orbiting the planets, asteroids, and comets. The students are also exposed to the basic idea of the function of a telescope. Planetarium and Observatory are used extensively. Methods of instruction include practical laboratory experiments, application of modern technology, and guided discussions. The course is structured around the lecture-lab format (i.e., depending on the topic, it may be necessary to do a hands-on activity before lecturing on the concepts). The class meets twice a week, three hours per day. Prerequisite: None.

PHYS 1412 Introductory Astronomy II 3-2-4
 This course is designed to give an overview of the visible universe. The objective throughout this course is to explain how astronomers know the many curious things they have learned about our universe. It brings the universe alive, in a sense, by showing the drama of the birth, evolution, and death of stars. What is the universe? Did the universe have a beginning? Will the universe last forever? These cosmological questions are answered in a qualitative way. The chances of life elsewhere in the universe, and how we might know about it are discussed. Planetarium and Observatory are used extensively. Methods of instruction include practical laboratory experiments, application of modern technology, and guided discussions. The course is structured around the lecture-lab format (i.e., depending on the topic, it may be necessary to do a hands-on activity before lecturing on the concept). The class meets twice a week, three hours per day. Prerequisite: None.

POFI Office Technology see also POFM and POFT

POFI 1301 Computer Applications I 2-4-3
 Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures.

POFI 1349 Spreadsheets 2-4-3
 In-depth coverage in the use of a spreadsheet software focusing on business applications. Introduction to a computer application course or equivalent recommended.

POFI 1481 Cooperative Education - Business/Office Automation/Technology/Data Entry 1-21-4
 Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Department Approval required.

POFI 2301 Word Processing 2-4-3
 In-depth coverage of word processing software focusing on business applications. Prerequisites: Keyboarding proficiency recommended.

POFI 2331 Desktop Publishing for the Office 2-4-3
 In-depth coverage of desktop publishing terminology, text editing, and use of design principles to create publishing material using word processing desktop publishing features. Emphasis on layout techniques, graphics, multiple page displays, and business applications. Keyboarding and word processing skills or concurrent enrollment in word processing course recommended.

POFI 2340 Advanced Word Processing 2-4-3
 Advanced applications in merging, macros, graphics, and desktop publishing. Includes extensive formatting for technical documents. Emphasis on business applications. Prerequisites: Keyboarding and word processing skills recommended.

**POFI 2386 Internship - Business/Office Automation/
Technology/Data Entry 2-7-3**

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of first year Office Technology courses recommended.

**POFI 2387 Internship - Business/Office Automation/
Technology/Data Entry 2-7-3**

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of second year Office Technology courses recommended.

**POFI 2481 Cooperative Education - Business/Office
Automation/Technology/Data Entry 1-21-4**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Prerequisite: POFI 1481 or equivalent. Departmental approval required.

POFT Office Technology see also POFI and POFM**POFT 1301 Business English 2-4-3**

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. Keyboarding skills recommended.

POFT 1309 Administrative Office Procedures I 2-4-3

Study of current office procedures, duties, and responsibilities applicable to an office environment. Keyboarding skills or current enrollment in a keyboarding course required.

**POFT 1319 Records and Information
Management I 2-4-3**

Introduction to basic records and information management. Includes the life cycle of a record, manual and electronic records management, and basic filing procedures and rules. Keyboarding skills or other computer literacy course recommended.

**POFT 1325 Business Math and Machine
Applications 2-4-3**

Skill development in the use of electronic calculators and business mathematical functions. Emphasis on business problem-solving skills using spreadsheet software and/or electronic calculator/keyboard.

POFT 1329 Beginning Keyboarding 2-4-3

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 1349 Administrative Office Procedures II 2-4-3

Advanced office application with special emphasis on decision making, goal setting, management theories, and critical thinking. Concurrent enrollment in or completion of second year office technology courses recommended.

**POFT 1481 Cooperative Education - Administrative
Assistant/Secretarial Science,
General 1-21-4**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Department approval required.

**POFT 1482 Cooperative Education - General Office/
Clerical and Typing Services 1-21-4**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Department approval required.

**POFT 2312 Business Correspondence and
Communication 2-4-3**

Development of writing and presentation skills to produce effective business communications. Prerequisites: Keyboarding and document formatting skills recommended.

POFT 2333 Advanced Keyboarding 2-4-3

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. Keyboarding and word processing skills recommended.

**POFT 2386 Internship - Administrative Assistant/
Secretarial Science, General 2-7-3**

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of first year Office Technology courses recommended.

**POFT 2387 Internship - Administrative Assistant/
Secretarial Science, General 2-7-3**

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of second year Office Technology courses recommended.

**POFT 2388 Internship - General Office/Clerical and
Typing Services 2-7-3**

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of first year Office Technology courses recommended.

**POFT 2389 Internship - General Office/Clerical and
Typing Services 2-7-3**

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of second year Office Technology courses recommended.

POFT 2481 Cooperative Education - Administrative Assistant/Secretarial Science, General 1-21-4

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Departmental approval required.

POFT 2482 Cooperative Education - General Office/Clerical and Typing Services 1-21-4

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Departmental approval required.

PSTR Hospitality Management see also CHEF, HAMG, IFWA, RSTO and TRVM**PSTR 1301 Fundamentals of Baking 2-4-3**

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the use of proper flours.

PSTR 2331 Advanced Pastry 2-4-3

A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques. Prerequisite: PSTR 1301.

PSYC Psychology**PSYC 2301 General Psychology 3-0-3**

Basic principles of human experience and behavior involving biological, environmental and sociological studies. An overview course including an introduction to the major studies of psychology.

PSYC 2308 Child Psychology 3-0-3

The purpose of this course is to develop an understanding of children and to engender a real interest in them. Consideration is given to the human organism as it develops physically, mentally, emotionally, and socially from birth through adolescence.

PSYC 2314 Life Span Growth and Development 3-0-3

This course will study the relationship of the physical, emotional, social and mental factors of growth and development of children and adults through the life span.

PSYC 2315 Psychology of Adjustment 3-0-3

A study of psychological concepts and principles related to healthy personality and social adjustments.

PSYC 2316 Psychology of Personality 3-0-3

The study of various approaches to determinants, development, and assessment of personality. Prerequisite: PSYC 2301.

PSYT Mental Health Services see also CHLT, CMSW and DAAC**PSYT 1309 Health Psychology 2-2-3**

Exploration of behavioral medicine and the interdependence of mind, body, and spirit. Topics include stress and its effect on body systems, mind/body interactions, and techniques for improving and maintaining health.

PSYT 1313 Psychology of Personal Adjustment 3-0-3

This course is designed to assist the student in the development of personal, social, and work adjustment skills.

PSYT 1329 Interviewing and Communication Skills 2-4-3

Development of interviewing and communication skills in professional relationships.

PSYT 1345 Principles of Behavior Management and Modification 2-2-3

The study of behavior management and cognitive theories and techniques with emphasis on their applications. Recommended prerequisite: PSYC 2301.

PSYT 2303 Social Psychology 2-2-3

A study of social perception, social influence, and social relations on individual and group interactions

PSYT 2321 Crisis Intervention 2-2-3

A study of the principles and theories of assisting the individual in a crisis situation. Topics include coping skills to increase potential reinstatement of equilibrium to an individual's lifestyle and suicide prevention.

PSYT 2331 Abnormal Psychology 2-2-3

The study of the theories and processes involved in the diagnosis and treatment of mental disorders. Recommended prerequisite: PSYC 2301

RELE Real Estate**RELE 1303 Real Estate Appraisal 3-0-3**

A study of the central purposes and functions of an appraisal, social and economic determinants of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting.

RELE 1311 Law of Contracts 3-0-3

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. Includes the elements of a contract, offer and acceptance, the statute of frauds, specific performance and remedies for breach, unauthorized practice of law, commission rules relating to use of adopted forms and owner disclosure requirements. This course meets the Texas Real Estate Licensing Act (TRELA) requirement for a core course on Real Estate contract law.

RELE 1315 Property Management 3-0-3

A study of the role of the property manager, landlord policies, operational guidelines, leases, lease negotiations, tenant relations, maintenance, reports, habitability laws, and the Fair Housing Act.

RELE 1325 Real Estate Mathematics 3-0-3

Mathematical logic and basic arithmetic skills including percentages, interest, time-valued money, depreciation, amortization, proration, and estimation of closing statement.

RELE 1406 Real Estate Principles (RELE 1301) 4-0-4

An overview of licensing as a real estate broker and salesperson, ethics of practice, titles to and conveyancing of real estate, legal descriptions, law of agency, deeds, encumbrances and liens, distinctions between personal and real property, contracts, 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. This course meets the Texas Real Estate Licensing Act (TRELA) requirements for a core course on Real Estate principles.

RELE 2301 Law of Agency 3-0-3
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. This course meets the Texas Real Estate Licensing Act (TRELA) requirement for a core course on Real Estate Agency Law.

RELE 2488 Internship- Real Estate 1-18-4
A basic, intermediate, or advanced type of non-health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the faculty or the work supervisor. An internship may be a paid or unpaid learning experience. Prerequisites: RELE 1311, 1406, 2301, and consent of the Department Chair.

RELE 2489 Internship- Real Estate 1-18-4
A basic, intermediate, or advanced type of non-health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the faculty or the work supervisor. An internship may be a paid or unpaid learning experience. Prerequisite: RELE 2488 and consent of the Department Chair.

RNSG Nursing

RNSG 1209 Introduction to Nursing 2-0-2
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 with a legal/ethical framework. The use of medical terminology and study and test-taking skills for technical courses and computer competency are included. The concepts of communications, caring, community and critical thinking are used throughout the course. Prerequisite: Admissions to Central Texas College.

RNSG 1301 Pharmacology 3-0-3
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 within a legal/ethical framework. The concepts of communication, caring, community, and critical thinking will be included throughout the course. Prerequisites: Admission to Central Texas College.

RSTO Hospitality Management see also CHEF, HAMG, IFWA, PSTR and TRVM

RSTO 1204 Dining Room Service 1-3-2
Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel.

RSTO 1221 Menu Management 2-0-2
A study of the food service principles involved in menu planning, layout, and evaluation for a variety of types of facilities and service methods. Emphasis on analysis of menu profitability, modification, commodity use, and other activities generated by the menu.

RSTO 1301 Beverage Management 3-0-3
A study of the beverage service of the hospitality industry including spirits, wines, beers, and non alcoholic beverages. Topics include purchasing, resource control. Legislation, marketing, physical plant requirements, staffing, service, and the selection of wines to enhance foods. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 1313 Hospitality Supervision 3-0-3
Fundamentals of recruiting, selection, and training of food service and hospitality personnel. Topics include job descriptions, schedules, work improvement, motivation, and applicable personnel laws and regulations. Emphasis on leadership development. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 1325 Purchasing for Hospitality Operations 3-0-3
Study of purchasing and inventory management of foods and other supplies to include development of purchase specifications, determination of order quantities, formal and informal price comparisons, proper receiving procedures, storage management, and issue procedures. Emphasis on product cost analysis, yields, pricing formulas, controls, and record keeping at each stage of the purchasing cycle. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 2301 Principles of Food and Beverage Controls 3-0-3
A study of financial principles and controls of food service operation including review of operation policies and procedures. Topics include financial budgeting and cost analysis emphasizing food and beverage labor costs, operational analysis, and international and regulatory reporting procedures. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 2307 Catering 2-2-3
Principles, techniques, and applications for both on-premises, off-premises, and group marketing of catering operations including food preparation, holding, and transporting techniques.

RSTO 2380 Cooperative Education - Food and Beverage/Restaurant Operations Manager 1-16-3
An intermediate or advanced course with lecture and work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. Indirect supervision is provided by the work supervisor while the lecture is provided by the college faculty or by other individuals under the supervision of the educational institution. Cooperative education may be a paid or unpaid learning experience.

RSTO 2405 Management of Food Production and Service 2-4-4
A study of quantity cookery and management problems pertaining to commercial and institutional food service, merchandising and variety in menu planning, and customer food preferences. Includes laboratory experiences in quantity food preparation and service.

SLPS Criminal Justice see also CJCR, CJLE and CJSA

SLPS 2488 Internship-Security and Loss Prevention Services 1-18-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Consent of the Department Chair.

SMER Small Gas Engine

SMER prefix courses are not offered on the Texas Campus.

SMER 1372 Shop Organization and Management 3-0-3

This course is designed to provide the student with an understanding of small engine repair business management. Areas of study include customer relations, warranty provisions, service, salesmanship, organization and shop lay-out, and the financial and operational aspects of managing a small engine repair business. Recommended prerequisite: Sophomore standing.

SMER 1404 Marine Equipment Service Principles 3-3-4

Principles of operation of two and four stroke marine engines and associated systems. Emphasis on troubleshooting and analysis of faulty systems and their individual components. Recommended prerequisites: SMER 1471 and SMER 1428.

SMER 1428 Small Engine Service Principles 3-3-4

Principles of operation of small engines and associated systems. Emphasis on troubleshooting and the analysis of faulty systems and their components. Recommended prerequisite or co-requisite: SMER 1471.

SMER 1431 Small Engine Tune Up 3-3-4

Tune up procedures for small engines including analysis, valve train, ignition fuel, starter, cutter, and safety compliance systems. Emphasis on the use of appropriate equipment and procedures. Recommended prerequisites: SMER 1471 and SMER 1428.

SMER 1434 Small Engine Two-Stroke Overhaul 3-3-4

Overhaul procedures for two-stroke small engines as used in lawn and garden applications. Emphasis on proper shop procedures for overhaul of two-stroke small engines and their applicable drive systems. Recommended prerequisites: SMER 1431, SMER 1471 and WLDG 1425.

SMER 1437 Small Engine Four-Stroke Engine/ Transmission 3-3-4

Overhaul procedures for four-stroke small engines, transmissions, and transaxles. Emphasis on shop procedures for overhaul, transmission troubleshooting, transmission inspection, and transaxle inspection. Recommended prerequisites: SMER 1428 and SMER 1434.

SMER 1471 Small Gas Engine Fundamentals 3-3-4

A study of the fundamental principles and operation of the two- and four-stroke air-cooled engine. Testing and maintenance procedures are performed on the ignition, compression, fuel, starting and lubrication systems of 2-HP and 8-HP engines. Recommended prerequisite or co-requisite: DEMR 1401, or AUMT 1405.

SMER 1473 Large Air-Cooled Engines 3-3-4

This course is designed to provide the student with an understanding of the theory and operating principles of large air-cooled engines used in lawn mowers, RV, and generator applications. Single- and twin-cylinder engines will be included. Emphasis will be placed on inspection, testing, diagnosing, and repair/overhaul procedures. Recommended prerequisites: SMER 1428 and SMER 1471.

SOCI Sociology

SOCI 1301 Introduction to Sociology 3-0-3

The study of human society, human behavior and personality as a product of group life, community organization, social change and current social problems.

SOCI 1306 Social Problems 3-0-3

A study of identification and analysis of contemporary social problems and development of criteria for evaluating these issues for social betterment.

SOCI 2301 Marriage and The Family 3-0-3

A study of problems in courtship, marriage, and family living as they relate to the social structure of American society.

SOCI 2319 Minority Studies I 3-0-3

The historical, economic, social, and cultural development of minority groups. May include African-American, Mexican-American, Asian-American, and Native-American issues.

SOCW Mental Health Services

SOCW 2361 Introduction to Social Work 3-0-3

Development of the philosophy and practice of social work in the United States, survey of the fields and techniques of social work.

SOCW 2362 Social Welfare as a Social Institution 3-0-3

Introduction to the study of the modern social work, the underlying philosophy and ethics of social work, and the major divisions and types of social work together with their methods and objectives.

SPAN Spanish

SPAN 1411 Beginning Spanish I 4-2-4

The study of basic Spanish grammar with the development of frequently used vocabulary. This course develops students' speaking, listening, reading and writing skills so they will be able to express their own ideas and interact with others. Some culture points are integrated to introduce students to the everyday lives of Spanish speakers in the twenty-one countries of the Spanish speaking world.

SPAN 1412 Beginning Spanish II 4-2-4

The study of basic Spanish grammar and vocabulary development continued from the SPAN 1411 curriculum. Prerequisite: SPAN 1411 with a "C" or above or a "passing" score on the CTC Spanish placement exam.

SPAN 2311 Intermediate Spanish I 3-0-3

The study of grammar and vocabulary with emphasis on conversation and writing. This course will introduce students to Spanish culture and history as well as Latin American culture and history. Prerequisites: SPAN 1411 and SPAN 1412 with a "C" or above or two years of Spanish at an accredited high school and a "high passing" score on the CTC Spanish placement test.

SPAN 2312 Intermediate Spanish II 3-0-3

The continuation of SPAN 2311. Emphasis on complex grammar, composition and conversation about Spanish American topics. Prerequisite: SPAN 2311 with a "C" or above or "the highest passing" score on the CTC Spanish placement test.

SPCH Speech

SPCH 1144 Forensic Activities I 1-0-1

Study and practices of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC's speech team.

SPCH 1145 Forensic Activities II 1-0-1

Study and practices of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC's speech team.

SPCH 1315 Public Speaking 3-0-3

Course encompasses both theory and practice of communicating with others and includes research, composition, organization, and delivery of speeches for various purposes and occasions.

SPCH 1318 Interpersonal Communications 3-0-3
Theory, examples, and participation in exercises to improve effective one-to-one and small group communication.

SPCH 1321 Business and Professional Speaking 3-0-3
Theories and skills of speech communication as applied to business and professional situations. Includes participating in an interview, preparing a resume and cover letter, engaging in problem-solving discussions, and delivering public speeches.

SPCH 2144 Forensic Activities III 1-0-1
Study and practices of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC's speech team.

SPCH 2145 Forensic Activities IV 1-0-1
Study and practices of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC's speech team.

SPCH 2341 Oral Interpretation 3-0-3
Study and practice in the principles of oral reading of literature. Stresses analyzing good literature and recreating the logical and emotional content for an audience. Also includes group oral interpretation.

TECA Early Childhood Professions

TECA 1303 Family, School and Community 2-2-3
A study of the relationship between the child, the family, the community, and early childhood educators, including a study of parent education, family and community lifestyles, child abuse, multicultural instruction techniques, and current issues.

TECA 1311 Educating Young Children 2-2-3
An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, and current issues.

TECA 1318 Wellness of the Young Child 2-2-3
A study of nutrition, health, safety, and related activities, including skill development in management of issues, guidelines, and practices in nutrition, as well as community health, hygiene, safety, and legal implications. Integration of these principles applied to a variety of settings.

TECA 1354 Child Growth & Development 2-2-3
A study of the principles of normal child growth and development from conception to adolescence. Focus on physical, cognitive, social, and emotional domains of development.

TRVM Hospitality Management see also CHEF, HAMG, IFAW, PSTR and RSTO

TRVM 1300 Introduction to Travel and Tourism 3-0-3
An overview of the travel industry. Emphasis on travel careers and the impact of tourism on society.

TRVM 1313 Ticketing Forms and Procedures 2-2-3
A study of manual travel agency operations and basic hands-on computerized reservations techniques in manual travel agency operations; emphasis on making air, hotel, tour and cruise reservations; writing itineraries; reading and interpreting brochures; and ticketing rules, credit card sales, ticket refunds, exchanges, and re-issues. Topics include building a simple Passenger Name Record on an airline computer reservation system, accessing availability, fares, and miscellaneous related information.

TRVM 2301 Introduction to Convention/Meeting Management 3-0-3

Overview of the meetings and convention industry and the various aspects and skills involved in planning and managing meetings and conventions. Emphasis on types of meetings, meeting markets, industry suppliers, budget and program planning, site selection and contract negotiations, registration and housing, food and beverage requirements, function and meeting room setup, and audiovisual requirements. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

TRVM 2305 Travel Industry Management 3-0-3

The preparation for mid-management positions in the travel and tourism industry. Topics include business organization, Airline Reporting Corporation requirements and regulations, bookkeeping requirements, equipment decisions and airline computer system affiliation, as well as staff development and employee relations, experiential team building applications, and the interviewing process.

TRVM 2366 Practicum - Travel and Tourism 1-20-3

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 for pay or no pay. This course may be repeated if topics and learning outcomes vary. Prerequisites: TRVM 1300 and TRVM 1313.

WLDG Welding

WLDG 1413 Introduction to Blueprint Reading for Welders 3-3-4

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes, including systems of measurements and industry standards. Interpretation of plans and drawings used by industry. Recommended prerequisite or co-requisite: WLDG 1423.

WLDG 1423 Welding Safety, Tools, and Equipment 3-3-4

An introduction to welding careers and safety practice, including welding safety; OSHA and the Hazardous Communication Act; Material Safety Data Sheets (MSDS); basic mathematics; measuring systems; shop operations; use and care of precision measuring tools; and the use and care of the hand and power tools. Instruction on various types of welding equipment and processes, basic welding gases, fluxes, rods, electrodes, symbols, and blueprints.

WLDG 1425 Introduction to Oxy-Fuel Welding and Cutting 3-3-4

An introduction to oxy-fuel welding and cutting, including history and future in welding, safety, set up and maintenance of oxy-fuel welding, and cutting equipment and supplies. Recommended prerequisite or co-requisite: WLDG 1423.

WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW) 3-3-4

An introduction to shielded metal arc welding process. Emphasis is placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions. Recommended prerequisite or co-requisites: WLDG 1423 and WLDG 1425.

WLDG 1430 Introduction to Gas Metal Arc (GMAW) Welding 3-3-4

A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools and equipment. Instruction in various joint designs. Recommended prerequisites: WLDG 1423 and WLDG 1428.

WLDG 1434 Introduction to Gas Tungsten Arc (GTAW) Welding 3-3-4

An introduction to the principles of gas tungsten arc welding (GTAW) setup and use of GTAW equipment, and safe use of tools and equipment. Welding instruction in various positions on joint designs. Recommended prerequisites: WLDG 1423 and WLDG 1428.

WLDG 1435 Introduction to Pipe Welding 3-3-4

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G using various electrodes. Recommended prerequisite: WLDG 1457.

WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW) 3-3-4

A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. Recommended prerequisite: WLDG 1428.

WLDG 2406 Intermediate Pipe Welding 3-3-4

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. Recommended prerequisite: WLDG 1435.

WLDG 2413 Intermediate Welding Using Multiple Processes 2-7-4

Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes: oxy-fuel gas cutting and welding, shielded metal arc welding, gas metal arc welding, flux-cored arc welding, gas tungsten arc welding or any other approved welding process. Recommended prerequisite: Consent of Welding Instructor or Department Chair.

WLDG 2435 Advanced Layout and Fabrication 3-3-4

A continuation of the Intermediate Layout and Fabrication course which covers production and fabrication of layout tools and processes. Emphasis on application of fabrication and layout skills. Recommended prerequisite: Satisfactory completion of all WLDG courses in the program except WLDG 2488.

WLDG 2439 Advanced Oxy-Fuel Welding and Cutting 3-3-4

A study of all position welding on ferrous and nonferrous metals using oxyacetylene welding process including welding and cutting, brazing, and soldering operations. Recommended prerequisite: WLDG 1423 and WLDG 1425.

WLDG 2443 Advanced Shielded Metal Arc Welding (SMAW) 3-3-4

Advanced topics based on accepted welding codes. Training provided with various electrodes in shielded metal arc welding processes with open V-groove joints in all positions. Recommended prerequisite: WLDG 1423 and WLDG 1457.

WLDG 2447 Advanced Gas Metal Arc (GMAW) Welding 3-3-4

Advanced topics in GMAW welding, including welding in various positions and directions. Recommended prerequisite: WLDG 1430.

WLDG 2451 Advanced Gas Tungsten (GTAW) Welding 3-3-4

Advanced topics in GTAW in various positions and directions. Recommended prerequisite: WLDG 1434.

WLDG 2453 Advanced Pipe Welding 3-3-4

Advanced topics involving welding of pipe using the shielded metal arc welding process. Topics include electrode selection, equipment set up, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes. Recommended prerequisite: WLDG 2406.

WLDG 2488 Internship - Welder/Welding Technologist 1-18-4

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Recommended prerequisite: Satisfactory completion of all other technical courses in the program.