2026-2027 COLLEGE CATALOG: COURSE DESCRIPTIONS

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ADV and ADVR Course Descriptions

The following is a list of the course descriptions for all ADV and ADVR courses currently offered at the college.

ADV 100 INTRODUCTION TO ADVENTURE RECREATION (3 CREDITS)

Description: This course will provide the student with an introduction to various skills in the adventure recreation field. It is intended as an introductory course for dual enrollment of students currently enrolled in participating secondary school programs related to adventure recreation. To earn credit for this course, students will have received a grade of "B" or above and demonstrated a basic understanding of outdoor leadership skills including wilderness navigation, outdoor cooking, group dynamics, group facilitation, and trip planning.

Corequisites: None
Prerequisites: None

ADV 105 INTRODUCTION TO SEA KAYAKING (3 CREDITS)

Description: This course is designed to introduce students to the basics of paddle sports and will focus on sea kayak and lake kayak safety. Students will learn the basics of boat design, basic paddling skills and safety considerations for paddling on fresh- and salt-water environments. The course will include a kayak safety rescue clinic as well as basic waterway navigation. This course is a pre-requisite for the sea kayak guide course. Maintaining a reasonable level of physical fitness and enthusiasm for the outdoors is essential.

Corequisites: None
Prerequisites: None

ADV 112 INTRODUCTION TO SAILING (1 CREDIT)

Description: Sailing will provide the student with instruction in basic sailing nomenclature and skills. Experience will be in small sloop-rigged dinghies and/or gaff-rigged catboats. Actual sailing time will include both lake and ocean time. The curriculum will be based on US Sailing's standard small boat sailing certification program. Appropriate level of physical fitness is recommended.

Corequisites: None
Prerequisites: None

ADV 114 ROPES COURSE FACILITATION (2 CREDITS)

Description: Students will learn to use and facilitate activities on both low and high elements on a ropes course to discover the importance of using initiatives to achieve group goals. Students will learn course design, safety and belay techniques, appropriate programming techniques, and facilitation techniques specific to ropes courses. This course is aligned with the standards published by the Associate for Challenge Course Standards. Participants may be eligible to receive certification as a Level 1 Challenge Course Practitioner through the ACCT. Students will work in teams to develop and facilitate a half-day ropes course program for a specific group. Appropriate fitness, clothing, and an adventurous spirit are required.

Corequisites: None
Prerequisites: None

ADV 115 OUTDOOR LEADERSHIP (3 CREDITS)

Description: This course is an introduction to the development, acquisition, and application of outdoor leadership skills and knowledge. This course provides an introduction to the theories of leadership; group dynamics and human relationships used in outdoor recreation; and experiential education delivery systems. The diversity of employment and career opportunities in both the public and private sectors will be explored.

Corequisites: None
Prerequisites: None

ADV 119 WILDERNESS EXPEDITION SKILLS I (4 CREDITS)

Description: This course will utilize classroom lectures, guest speakers, and extensive outdoor expeditions to expose students to various activities in the adventure recreation field. Students will participate in two expeditions led by professional guides, allowing them the opportunity to experience various guiding methods, styles, and techniques. Activities will include sea kayaking, backpacking, backcountry camping, and other activities. Appropriate fitness, clothing, and an adventurous spirit are pre-requisites for this course. This course will involve two mandatory overnight weekend expeditions. Students in this course must also be concurrently or previously enrolled in ADV105 or have received approval from the instructor.

Corequisites: None
Prerequisites: ADV 105 or instructor permission

ADV 121 WILDERNESS EXPEDITION SKILLS II (4 CREDITS)

Description: This course will utilize classroom lectures, guest speakers, and extensive outdoor expeditions to expose students to various activities in the adventure recreation field. Students will participate in three expeditions led by professional guides, allowing them the opportunity to experience various guiding methods, styles and techniques. Activities may include winter camping and travel, rock climbing, and white-water canoeing. Appropriate fitness, clothing, and an adventurous spirit are pre-requisites for this course. This course will involve three mandatory overnight weekend expeditions.

Corequisites: None
Prerequisites: ADV 119 or instructor permission

ADV 125 TOURISM APPLICATION SEMINAR (3 CREDITS)

Description: This course provides an introduction to the background, history, basic elements, scope, impacts and potential of the tourism industry from regional, national and international perspectives. Topics include an overview of industry sectors; interrelationships among sectors; terminology and definitions; history and development of tourism; economic, social, cultural and environmental issues; opportunities and impacts related to tourism; and tourism markets and products. The course includes specific overviews of ecotourism, adventure tourism, and cultural and heritage tourism. The future of the tourism industry is examined in the context of the global marketplace and current trends, issues and innovations.

Corequisites: None
Prerequisites: None

ADV 130 MAP AND COMPASS (1 CREDIT)

Description: This course is the first of a three-course series that teaches the skills necessary to locate one's geographical position on land or sea. ADV130 will address the basics of map and compass. Topics covered include reading and understanding topographic maps and map symbols; magnetic needle compass anatomy; taking compass bearings; and traveling and navigating with map and compass over land.

Corequisites: None
Prerequisites: None

ADV 131 NAUTICAL NAVIGATION (1 CREDIT)

Description: This course is the second of a three-course series that teaches the skills necessary to locate one's geographical position on land or sea. Through studying the science of coastal

navigation, students will learn the mapping features unique to nautical charts and navigation techniques utilized at sea. Students will learn the methods and theory behind coastal navigation, dead reckoning, piloting, and calculating set and drift. Students will apply these learned skills through field time on a schooner if also enrolled in ADV111.

Corequisites: None
Prerequisites: ADV130 or with instructor permission

ADV 141 THE MAINE ENVIRONMENT I (1.5 CREDITS)

Description: Using both an indoor and outdoor classroom setting, this course will provide the student with a practical knowledge of the natural environment in Maine during the summer and fall seasons and as such emphasizes direct observation and interpretation of terrestrial, marine, and aquatic organisms in their natural habitats. This course includes identification of common plants and animals found in Maine and promotes understanding of the relationships between physical factors such as weather, climate, ocean tides, and the life histories of organisms. Note: this course is offered only during the fall semester and utilizes a combination of lectures and field investigations on multi-day outdoor experiences.

Corequisites: ADV119
Prerequisites: None

ADV 142 THE MAINE ENVIRONMENT II (1.5 CREDITS)

Description: Using both an indoor and outdoor classroom setting, this course will provide the student with a practical knowledge of the natural environment in Maine during the winter and spring seasons and as such emphasizes direct observation and interpretation of terrestrial, marine, and aquatic organisms in their natural habitats. This course includes identification of common plants and animals found in Maine and promotes understanding of the relationships between physical factors such as weather, climate, geology, and the life histories of organisms. Note: this course is offered only during the spring semester and utilizes a combination of lectures and field investigations on multi-day outdoor experiences.

Corequisites: ADV121 or instructor approval
Prerequisites: ADV141 or instructor approval

ADV 150 MAINE GUIDE HUNTING PREPARATION (3 CREDITS)

Description: Topics covered include hunter safety and hunter safety instructor course, first aid, orienteering competency, identification and use of firearms, and hunting and trapping rules.

Corequisites: None
Prerequisites: ADV115 and ADV121 or with instructor permission

ADV 160 MAINE GUIDE FISHING PREPARATION (3 CREDITS)

Description: This course is designed to give participants the training necessary to pass the Registered Maine Guide test for fishing and to pass the watercraft operator's license test. Some of the topics covered include first aid, navigation, local fishing methods, water survival skills, fly tying demonstrations and identification, fishing and watercraft rules and regulations, and game fish identification.

Corequisites: None
Prerequisites: ADV115 and ADV121 or with instructor permission

ADV 165 FRESHWATER FISHING (3 CREDITS)

Description: This comprehensive course will introduce the student to the ecological and economic importance of freshwater sport fishing in Maine while introducing technical skills related to the sport of fishing including ice fishing, lake and stream fishing, and fly fishing. The course includes both classroom lessons and field time spent on rivers, lakes, and streams. Fishing equipment is provided, although proper outdoor clothing is required. All participants need to purchase a Maine fishing license.

Corequisites: None
Prerequisites: None

ADV 170 MAINE GUIDE RECREATIONAL PREPARATION (3 CREDITS)

Description: This is an introductory course for those interested in pursuing guiding opportunities. This course will concentrate on the first aid, canoeing, and safety information needed to pass the Registered Maine Guide test. Other study areas will include guide responsibilities, study tips, and the application processes. Discussion of the required steps for obtaining certifications in hunting, fishing, sea kayaking and salt-water fishing will also be studied.

Corequisites: None
Prerequisites: ADV115 and ADV121 or with instructor permission

ADV 175 PRACTICUM IN ADVENTURE RECREATION (3 CREDITS)

Description: The practicum is a practical application of skills formally learned in courses throughout the Adventure Recreation and Tourism program curriculum. Students are required to research, apply for, and secure a practicum or internship position with an appropriate entity within the Adventure Tourism industry for 280 hours (8 weeks at 35 hours per week) to be approved by the student's advisor. The diversity of employment and career opportunities in both the public and private sectors will be explored. Upon return to WCCC in the fall semester, students will make a formal presentation of their experience to receive credit.

Corequisites: None
Prerequisites: None

ADV 180 COAST GUARD LICENSE PREPARATION (3 CREDITS)

Description: This course is a captain's license preparatory guide for all those desiring to sit for the master and mate operator licenses up to 100 gross (six and above passenger licenses). It includes international and inland rules of the road, general navigation, deck general safety, coast guard rules and regulations for inspected vessels, sail and auxiliary sail, and practical chart navigation.

Corequisites: None
Prerequisites: ADV115 and ADV121 or with instructor permission

ADV 185 OUTDOOR RECREATIONAL EQUIPMENT MAINTENANCE AND REPAIR (3 CREDITS)

Description: This course allows the student to learn equipment maintenance and repair techniques related to the outdoor recreation industry. Content is delivered through lecture and lab experiences, allowing students to demonstrate competency at maintaining and repairing a variety of equipment both in the front country and in the backcountry.

Corequisites: None
Prerequisites: None

ADV 190 RECREATION VEHICLE OPERATIONS AND MAINTENANCE (3 CREDITS)

Description: This course will cover off-road applications of bicycles, 2-, 3- and 4-wheel all-terrain vehicles and snowmobiles. It will focus on proper application of equipment, applicable vehicle laws and regulations, environmentally conscious off-road use and user safety under all

applications. Vehicle maintenance and both preventative and emergency repair will be emphasized.

Corequisites: None
Prerequisites: ADV115 or with instructor permission

ADV 200 PERSONAL PADDLE CRAFT (4 CREDITS)

Description: This course will involve the students in more intensive application, safe use and maintenance of kayaks, canoes, and inflatable vessels, including flat water and ocean use. User safety and emergency procedures will be emphasized. Integration of the Maine guide recreational procedures and certification preparation will be included in this course.

Corequisites: None
Prerequisites: ADV121 or instructor permission. Familiarity with use of the above craft and an appropriate level of physical fitness is recommended.

ADV 205 PCIA CLIMBING WALL INSTRUCTOR CERTIFICATION (1 CREDIT)

Description: Course provides instructors and potential instructors with an in depth and standardized understanding of the skills essential to teaching climbing in an indoor setting. It is the first step in a sequential approach to professional climbing instructor development. The course reinforces the importance of teaching technically accurate information and debunks many common climbing myths. The course emphasizes the presentation of sound fundamental skills to climbing gym participants, the formation of risk assessment and risk management skills and basic problem-solving skills such as belay transitions and on wall coaching and assist techniques. Participants will be assessed on both their core knowledge and their ability to effectively teach and coach related skills.

Corequisites: None
Prerequisites: ADV121 and belay certification or with instructor permission

ADV 207 ADVANCED PADDLING SKILLS (3 CREDITS)

Description: This course delivers instruction in advanced canoeing and sea kayaking skills. Utilizing lecture, pool sessions, and open water environments, students will learn solo and tandem canoe skills consistent with the American Canoe Association level IV program for moving water up to class IV. Students will also learn advanced skills related to coastal sea kayaking in adverse conditions such as heavy weather, surf, and current. This course requires the student to be in excellent physical condition.

Corequisites: None
Prerequisites: ADV115 and ADV121 or with instructor permission

ADV 211 SAILING (3 CREDITS)

Description: This course will provide the student with instruction in basic sailing skills including both dinghy sailing, keelboat sailing, navigation, communication, and passage making. Experience will be in small sloop-rigged dinghy sailboats and larger keelboats and actual sailing time will include both lake and ocean time. The curriculum is based on the US Sailing certification program and Coast Guard navigation and sail endorsement preparation. Students will have the opportunity to satisfy the requirements for the US Sailing Small Boat Sailing and Keelboat Sailing certifications.

Corequisites: None
Prerequisites: ADV121 or with instructor permission

ADV 220 MOTOR BOAT OPERATION (2 CREDITS)

Description: This course will cover the operation and use of outboard, inboard, jet ski/jet powered, and stern drive propelled vessels. Both single- and twin-screw applications will be covered. Vessel handling, safety, and routine maintenance will be covered in each category, as vessels are available.

Corequisites: None
Prerequisites: ADV121 or with instructor permission. Familiarity with use of the above craft and an appropriate level of physical fitness is recommended.

ADV 226 ADVENTURE PROGRAMMING (3 CREDITS)

Description: This course will allow students the experience of being outdoor leaders through planning and guiding extensive outdoor expeditions that explore Maine, New England, and/or elsewhere. Students will also participate in excursions led by professional guides, allowing them the opportunity to critique various guiding methods, styles, and techniques. Activities may include canoeing, kayaking, sailing, backpacking and other activities. Appropriate fitness, clothing, and a willingness to have fun are pre-requisites for this course. This course will involve mandatory overnight weekend expeditions.

Corequisites: None
Prerequisites: ADV121 or with instructor permission

ADV 230 SCUBA (3 CREDITS)

Description: Learn to dive today. This course leads to PADI (Professional Association of Diving Instructors) open water dive certification and dive master certification, the most widely recognized and respected diving certification in the world. Within a few days, students will be enjoying the underwater world. Locations of course(s) to be announced due to facilities required.

Corequisites: None
Prerequisites: None

ADV 241 ADVANCED WINTER SKILLS (2 CREDITS)

Description: This course allows students the opportunity to develop advanced winter skills specific to outdoor recreation including backcountry skiing, ice climbing, and mountaineering and provides content through both lecture and field experiences. Students will be involved in a multi-day winter expedition in a mountain environment and have the opportunity to receive certificate for Level I training from the American Institute for Avalanche Research and Education (AIARE). This course is physically demanding and requires the student to be in excellent physical condition.

Corequisites: None
Prerequisites: ADV121 or with instructor permission

ADV 250 CAPSTONE PROJECT (3 CREDITS)

Description: This course is a semester-long project that will be the culmination of the student's learning experiences in the Adventure Recreation and Tourism program at WCCC. Students will use this project to help organize and develop a small tourism-based business through which they will offer many tours, activities, and events. For this project, students are to fully develop, plan, market, promote, and deliver one of these products.

Corequisites: None
Prerequisites: All course work in core or with instructor permission

ADV 260 FOUNDATIONS OF OUTDOOR THERAPY (3 CREDITS)

Description: This course will introduce the student to the fundamental concepts of both adventure-based and wilderness-based therapy. Through both classroom (30 hours) and field session (30 hours), the student will demonstrate a basic understanding of how the use of apparent risk and the natural world can be utilized to help people heal. This course utilizes an

experiential approach and involves the use of WCCC's ropes course and may include overnight wilderness experiences.

Corequisites: None
Prerequisites: A sense of adventure and an open mind

AQU and AQUA Course Descriptions

The following is a list of the course descriptions for all AQU and AQUA courses currently offered at the college.

AQU 101 INTRODUCTION TO AQUACULTURE (3 CREDITS)

Description: Introduction to Aquaculture will introduce the basic principles and practices of aquaculture from local, national, and international perspectives. Students will gain a basic understanding of the parameters that contribute to a successful aquafarm, and factors controlling the growth and development of the aquaculture industry. This course covers many of the topics found in the Maine Aquaculture Association's Occupational Standards for entry-level aquaculture positions.

Corequisites: None
Prerequisites: None

AQUA 102 INTRODUCTION TO BASIC AQUACULTURE SKILLS (1 CREDITS)

Description: The objective of this course is experiential, hands-on training of basic aquaculture skills that are listed within the Maine Aquaculture Association's Occupational Standards for entry-level aquaculture positions.

Corequisites: None
Prerequisites: None

AQU 111 BASIC PRINCIPLES OF AQUACULTURE (4 CREDITS)

Description: The objective of this course is to introduce basic principles of aquaculture. Students will be introduced to environmental, social, and economic aspects of each of the four sub-sectors, including topics such as site selection, feeding and nutrition, reproduction, breeding, disease and biosecurity, aquaculture systems, and husbandry. The course covers Shellfish, fin fish, algae, and RAS aquaculture.

Corequisites: None
Prerequisites: None

AQU 112 EXPLORING AQUACULTURE CAREERS (3 CREDITS)

Description: The objective of this course is to raise awareness of careers within aquaculture, and pathways towards these careers. Students will visit a range of aquaculture operations and become familiar with different roles and responsibilities. This may include visiting shellfish, algae and fin fish hatcheries, land-based recirculating aquaculture operations, marine-based fin fish and shellfish operations, processing facilities, research facilities. We will meet with people in a broad range of careers including farming/production, biotechnology, processing, distribution and transport, gear/equipment manufacturing, veterinarians and aquatic animal health, feed production, entrepreneurship, sales, advocacy, education, policy and regulation, research, engineering, food science, and more.

Corequisites: None
Prerequisites: None

AQUA 120 MAINE'S AQUACULTURE WORKFORCE: AN IN-DEPTH STUDY (3 CREDITS)

Description: This intensive 8-week course offers students the opportunity to explore workforce characteristics and careers in aquaculture through guided research, case studies, and real-world engagement with aquaculture businesses. Students will analyze career pathways, sustainability issues, and technological innovations while conducting an in-depth investigation of at least one aquaculture operation.

Corequisites: None
Prerequisites: None

AQU 211 PRINCIPLES OF AQUATIC ANIMAL HEALTH, NUTRITION, & DISEASE MANAGEMENT (3 CREDITS)

Description: In this course students will be introduced to and discuss the basic concepts of fish health, nutrition, and disease management for shellfish and fin fish aquaculture. Students will be introduced to basic nutritional and disease terminology; explore changing health and nutritional requirements through the life cycles of common aquaculture species; be introduced to the composition and development of fish diets; gain a basic understanding of the fish immune system and its development; be introduced to common diseases; and explore the anatomy and the function of different organs as related to health, nutrition, and disease.

Corequisites: None
Prerequisites: AQU 111 or with instructor permission

AQU 212 PRINCIPLES OF BIOSECURITY (1 CREDITS)

Description: Biosecurity in aquaculture consists of practices that minimize the risk of introduction and spread of an infectious disease among the animals and/or plants on a farm and the risk that diseased animals or infectious agents will leave a facility and spread to other farms, into the wild, and into other susceptible species. Students will learn the principles of biosecurity, examine biosecurity risks for different production system types, explore examples of biosecurity management, and will develop a simple biosecurity plan.

Corequisites: None
Prerequisites: None

AQU 214 APPLIED TECHNIQUES IN AQUACULTURE (8 CREDITS)

Description: Applied techniques in aquaculture explores the theory and practice of various species and system design and function in aquaculture. This is an intensive, "hands-on" class with advanced laboratory learning experiences and field components. Topics include reproductive biology, anatomy, techniques, on-growing in the marine environment, case studies, farm site selection and leasing permitting requirements, as well as biofilters and nitrification processes, aeration and oxygenation, fine and dissolved solids removal, planning and building recirculating systems, and production considerations focusing on both shellfish, fin fish, macroalgae, and RAS aquaculture.

Corequisites: None
Prerequisites: AQU 211 and BIO 213

AQU 215 FIELD EXPERIENCES IN AQUACULTURE (3 CREDITS)

Description: Field Experiences in Aquaculture Internship is a method of integrating classroom theory with practical experience through a work situation. This internship provides practical, hands-on experience at an industry partner location. Students will be required to complete a minimum of 50 hours of field experience and may be paid or unpaid.

Corequisites: None
Prerequisites: AQU 111 or with instructor permission

AQU 225 ENVIRONMENTAL ETHICS FOR THE BLUE ECONOMY (3 CREDITS)

Description: This interdisciplinary course explores environmental ethics as applied to the Blue Economy, with a focus on sustainability, marine resource use, coastal development, and ocean governance. Students will examine real-world dilemmas through ethical theories and explore challenges faced by industries such as aquaculture, shipping, offshore energy, and tourism.

Corequisites: None
Prerequisites: None

ART and ARTS Course Descriptions

The following is a list of the course descriptions for all ART and ARTS courses currently offered at the college.

ART 100 INTRODUCTION TO ART: THE VISUAL EXPERIENCE (3 CREDITS)

Description: The pervasiveness of the visual experience in contemporary life is indisputable. Through slide/power point lectures, hands-on visual training exercises, and directed studio art projects, this course guides students in developing the varied literacies needed to engage in their visual world and to acquire the language to communicate their visual experiences. Emphasis will be on in-depth analysis of individual works of art and hands-on exercises in a series of in-context assignments. Students will be introduced to art from the position of the observer, the artist, the scholar, and the critic; will become familiar with the techniques of architecture, painting, drawing and sculpture; will gain an understanding of the concepts that connect the progression of ideas in artistic communication and expression from the ancient world to modern times through a brief survey of art from its beginnings to present day; and will gain an understanding of the creative process and personal expression.

Corequisites: None
Prerequisites: None

ART 103 PRINTMAKING (3 CREDITS)

Description: This is a studio course which provides a fundamental theoretical and technical approach to printmaking. After initial overview of tools, technical language, and history, most of the remaining class time is spent actually making prints, with ongoing guidance and critique of works in progress and weekly group critique and discussion of finished works. Students will complete this course with a basic understanding of and competent with the skills, both visual and manual, involved in making prints and printing plates.

Corequisites: None
Prerequisites: None

ART 105 DRAWING FOR BEGINNERS (3 CREDITS)

Description: This course will explore the practical and technical basics of drawing. Through lecture and hands-on drawing exercises, students will sharpen their powers of perception, develop practical drawing skills and learn about different approaches, techniques and drawing

media. The focus will be on the studio setting, but some classes will be held outdoors as weather permits. Class sessions will focus on still life, landscape and the model. The goal of this course is for students to gain an understanding of the basic principles of design and the concepts of shape, value, lines, texture, and perspective.

Corequisites: None
Prerequisites: None

ART 201 MIXED MEDIA ARTWORK (3 CREDITS)

Description: The course examines the nature of the creative process in both drawing and painted media for intermediate and advanced students who have acquired basic representational drawing skills. Emphasis is on the materials of art and structural principles such as color, form, and design. Students will participate in a series of studio and Plein Air experiences with a variety of art media and personal interests to produce finalized artworks. Upon successful completion of the course, the student should be able to: Create finished personal artworks suitable for framing and exhibition in a fall semester group show at the college. Expand and further develop personal visual skills and interests in artistic themes with a variety of art media. Learn from the instructor and course participants in art materials handling practice and techniques.

Corequisites: None
Prerequisites: ART 105 or Portfolio Submission

ASTR Course Descriptions

The following is a list of the course descriptions for ASTR courses currently offered at the college.

ASTR 100 INTRODUCTION TO ASTRONOMY (3 CREDITS)

Description: This introductory astronomy course explores the vast expanse of the universe, from our Sun and solar system to distant galaxies and nebulae. Through a combination of classroom discussions, hands-on laboratory work, and direct astronomical observations, students will develop a foundational understanding of celestial phenomena, astronomical measurement techniques, and the tools used to study the cosmos. Students will learn how to identify constellations, stars, and planets, track the daily and seasonal motions of celestial objects, and use a telescope and star maps and star charts to navigate the night sky. Observational sessions—conducted either at the instructor's observatory or on campus—will provide students with the opportunity to view celestial objects firsthand and apply measurement techniques used by astronomers. This course is ideal for students of all backgrounds who are curious about the night

sky and the science behind what we observe. No prior experience in astronomy or physics is required. Maine Aquaculture Association's Occupational Standards for entry-level aquaculture positions.

Corequisites: None
Prerequisites: None

BIO and BIOL Course Descriptions

The following is a list of the course descriptions for all BIO and BIOL courses currently offered at the college.

BIO 112 MARINE BIOLOGY (4 CREDITS)

Description: A survey of marine environments and their biotic communities with emphasis on the natural history of marine organisms.

Corequisites: None
Prerequisites: None

BIO 114 INTRODUCTION TO WATER QUALITY & WATER CHEMISTRY IN AQUACULTURE (2 CREDITS)

Description: This course introduces students to the basic principles of water quality and water chemistry and how they affect open and closed aquaculture systems. Students will gain an understanding of the chemical properties of marine and fresh water and the impacts on farmed species when water quality becomes out of balance. Specific water quality parameters covered include pH, salinity, temperature, nutrients, dissolved oxygen, microbes, and pollutants. Students will become proficient with tools and instruments commonly used to measure water quality conditions on farm sites.

Corequisites: None
Prerequisites: None

BIO 120 GENERAL BIOLOGY WITH LAB (4 CREDITS)

Description: This course introduces students to the concepts and principles of the chemical basis of life; organic molecules; cell structure; function and structure of living organisms including nutrition, digestion, and circulation; regulation in organisms including hormonal, nervous systems, senses, muscles and movement.

Corequisites: None
Prerequisites: C or better in high school biology

BIO 130 HUMAN ANATOMY AND PHYSIOLOGY (4 CREDITS)

Description: This introductory one-semester course is designed to provide students with the fundamental concepts of human anatomy and physiology. The sequence of topics includes an orientation to the human body, basic chemistry, cells and tissues, organ systems, special senses and blood. The activity-based labs, using models, slides, and prepared specimens, are designed to explore lecture topics.

Corequisites: None
Prerequisites: None

BIO 213 APPLIED MARINE BIOLOGY IN AQUACULTURE (3 CREDITS)

Description: Students will advance the knowledge gained from BIO 112 to further their understanding of the natural history and biology of key commercially important species in Maine. This will include the comparative natural history and biology and the influence of biology and natural history on the choice and design of production systems across shellfish, fin fish, and macroalgae.

Corequisites: None
Prerequisites: BIO 112 or with instructor permission

BIO 220 MICROBIOLOGY WITH LAB (4 CREDITS)

Description: This course is a basic introduction to the science of microbiology. The student should develop a broad understanding of both theoretical and laboratory aspects of the science. Specific topics to be covered include general characteristics of bacteria, viruses, protozoa, and fungi; disease transmission; immunology; epidemiology; and microbial control. The student will have the opportunity to practice techniques for specimen collection, culturing, staining, and microscopic observation of representative species.

Corequisites: None
Prerequisites: BIO 225 or with instructor permission

BIO 225 ANATOMY AND PHYSIOLOGY I WITH LAB (4 CREDITS)

Description: This course is designed to prepare students for a career in the allied health sciences. Topics include structure levels, anatomical positions and cavities, skeletal and muscular systems, and nervous system. The intent of this approach is to allow the student to develop a concise understanding of how each system of the body functions and interacts. The concepts covered in the lecture course are explored in greater detail in lab. Model, prepared slides, and preserved specimens will all be used to enhance instruction.

Corequisites: None
Prerequisites: Those who have not successfully completed a high school or college lab-based biology course, within the past five years, are recommended to take biology prior to this course. An introductory know of both applied biochemistry and biology is essential for course success.

BIO 235 ANATOMY AND PHYSIOLOGY II WITH LAB (4 CREDITS)

Description: This course is a continuation of BIO 225. Topics include neural, sensory, circulatory, urinary, lymphatic, digestive, endocrine, and reproduction systems; and fluids, electrolytes and acid-base control. The intent of this approach is to allow the student to develop a concise understanding of how each system of the body functions and interacts. The concepts covered in the lecture course are explored in greater detail in lab. Models, prepared slides and preserved specimens will all be used to supply the student with a detailed view of the anatomy of the body.

Corequisites: None
Prerequisites: BIO 225

BUS and BUSN Course Descriptions

The following is a list of the course descriptions for all BUS and BUSN courses currently offered at the college.

BUS 110 INTRODUCTION TO BUSINESS (3 CREDITS)

Description: This course will survey the business management functions found in modern organizational environs to provide a foundation for understanding the interrelations of the various facets of business organizations.

Corequisites: None
Prerequisites: None

BUS 132 BUSINESS LAW (3 CREDITS)

Description: This course is an examination of legal obligations and rights in the business community. Areas covered are contract law, computer law, financial crimes, environmental law, international law, discrimination and sexual harassment, family law, and ethics.

Corequisites: None
Prerequisites: None

BUS 140 ACCOUNTING PRINCIPLES (3 CREDITS)

Description: This course concentrates on the business of business — how accounting contributes to effective management while providing the students with a strong basic knowledge of accounting terms, concepts, and procedures. This course introduces basic accounting principles and procedures as it progresses through the accounting cycle for both a service-based and a merchandising business. Students become familiar with basic financial reports such as the balance sheet, income statement, statement of owner's equity, and statement of cash flows. Focus is on accounting procedures and theory. The overall objective is to provide the student with a sound basic understanding of the concepts, procedures, and terminology of accounting and the ability to analyze and interpret financial data and apply internal controls.

Corequisites: None
Prerequisites: None

BUS 160 ENTREPRENEURSHIP AND NEW VENTURE PRACTICE (3 CREDITS)

Description: This course is designed to bring out the required attributes of an entrepreneur. It begins by discussing the characteristics and personality of successful entrepreneurs, then provides information on becoming an entrepreneur, types of ownership, the importance of developing a business plan, marketing a business, hiring and managing a staff, and financing, protecting and insuring the business. Entrepreneurship class members will consider business-planning, self-assessment, idea generation, and operating strategies required to set up small business. The business planning process includes opportunity recognition, concept development, feasibility analysis, and the business plan. Students will be introduced to the skills and strategies relevant for start-up and early-stage entrepreneurs.

Corequisites: None
Prerequisites: None

BUS 176 QUICKBOOKS COMPUTERIZED ACCOUNTING (3 CREDITS)

Description: QuickBooks Online Computerized Accounting emphasizes the operation of computerized accounting systems from manual input forms. Topics include equipment use, general ledger, accounts receivable and payable, payroll, cash management, and financial reports. All assignments involve theoretical and technical application. Students will integrate managerial aspects of accounting by performing financial analyses and comparisons from computer generated financial reports. Students will plan, setup, maintain, and analyze a new or existing business as a final project.

Corequisites: None

Prerequisites: None

BUS 205 BUSINESS COMMUNICATIONS (3 CREDITS)

Description: This course covers various types of business reports and communications with emphasis on preparation, collection of data, organization, style and format. A brief review of composition techniques and standard usage are included. Emphasis is placed on appropriate formats for business communications including grammatical style, clarity, and conciseness of message.

Corequisites: None
Prerequisites: ENG 101 passed with a C or better

BUS 215 BUSINESS MANAGEMENT (3 CREDITS)

Description: This course studies small business management, organization, forms of ownership and the process of starting a small business. Students should have successfully completed two semesters within the Business Management program or obtain permission of instructor.

Corequisites: None
Prerequisites: BUS 110 and BUS 140 passed with a C or better or with instructor permission

BUS 218 BUSINESS FINANCE (3 CREDITS)

Description: The study of financing a small business, including seeking and obtaining financing, calculating start-up costs, financial sources, personal financial statements, and equity vs. debt financing

Corequisites: None
Prerequisites: BUS 110 and BUS 140 passed with a C or better or with instructor permission

BUS 230 SUPERVISORY MANAGEMENT (3 CREDITS)

Description: This course describes the scope of managerial work and discusses the roles and responsibilities of a supervisor. The student recognizes the strengths of a supervisor such as technical competence, individual energy, and the ability to have a good relationship with and motivate others. Other pertinent and current topics that are covered are human relations skills, developing positive assertiveness, effective team building, sexual harassment, staffing, training, ethics in business, and conflict resolution. Students will work in assigned teams with their selected supervisor/team leader to complete practical group projects.

Corequisites: None
Prerequisites: None

BUS 240 ADVERTISING AND MARKETING (3 CREDITS)

Description: This course provides a detailed study of marketing, pricing, promoting, distribution, and the role of advertising in the marketing of goods and services. The types of advertising media, how advertising is created, agency functions and regulatory aspects of advertising are covered.

Corequisites: None
Prerequisites: None

BUS 242 INTERNATIONAL MARKETING (3 CREDITS)

Description: International Marketing examines marketing concepts within the context of the global marketplace. Driven by the key marketing functions identified in the National Marketing Education Standards, serves as a multimedia resource for a one-semester course. Using numerous real-life examples, International Marketing provides industry-specific examples to master international economics, promotion, technology, and professional sales. Topics cover the economic impact of international marketing on local, state, national, and global economies. Students will conduct marketing research to determine an international market need and then develop a plan for an international venture.

Corequisites: None
Prerequisites: None

BUSN 245 THE DIGITAL BUSINESS TOOLKIT (3 CREDITS)

Description: This course provides students with the essential skills and knowledge to develop effective digital strategies for businesses, combining website design, social media marketing, and artificial intelligence (AI) tools. Students will learn to utilize design principles and web development tools to create visually appealing and functional websites tailored to business needs. Through hands-on projects, they will craft compelling social media marketing campaigns that align with business goals, audience engagement, and brand positioning. The course also introduces AI-driven solutions for business optimization. Throughout the course, ethical and legal considerations in website management, social media marketing, and AI implementation will be examined to ensure compliance with industry standards and regulations. By the end of the course, students will be equipped with the skills to develop and execute data-driven, AI-enhanced digital marketing strategies that drive business growth and success.

Corequisites: None
Prerequisites: None

BUS 248 BUSINESS COOPERATIVE INTERNSHIP (3 CREDITS)

Description: The cooperative internship program is designed to provide practical experience that cannot be obtained in the classroom. The student will design a personal profile, learn career skills, develop performance objectives, and acquire work adjustment skills. The student will evaluate his/her job progress and transfer skills obtained during the experiential learning experience to permanent employment. A formal evaluation of the cooperative education experience is required.

Corequisites: None
Prerequisites: Students should have successfully completed a minimum of 30 credits or permission from the instructor.

BUS 255 INTERNATIONAL BUSINESS (3 CREDITS)

Description: This course aims to enhance the global perspective of small business managers. It covers the legal, cultural, economic, and political factors in operating an international business.

Corequisites: None
Prerequisites: None

CHY and CHEM Course Descriptions

The following is a list of the course descriptions for all CHY and CHEM courses currently offered at the college.

CHY 110 FUNDAMENTALS OF CHEMISTRY WITH LAB (4 CREDITS)

Description: Stressing the basic principles and concepts of chemistry, this course is designed as an elective for non-science majors or as an introductory course for those who have not studied chemistry and plan to take other science courses. Laboratory work is designed to illustrate topics discussed in class.

Corequisites: None
Prerequisites: None

CMJ and CJUS Course Descriptions

The following is a list of the course descriptions for all CMJ and CJUS courses currently offered at the college.

CMJ 101 INTRODUCTION TO CRIMINAL JUSTICE (3 CREDITS)

Description: This course is designed to provide an overview of the legal system in America, including the history and evolution of law enforcement and the criminal law, to the present status of the criminal justice system. Topics discussed will include the purposes and goals of the criminal justice system; the history and evolution of the criminal law and the legal process; the role of law enforcement in a democratic society; the balancing of individual rights versus the protection of society; the manner in which the criminal justice system confronts terrorism; and the development and current status of justice policy. The course will examine in significant detail the three primary components that comprise the criminal justice system: law enforcement, adjudication, and corrections. Juvenile justice and its purposes and goals will also be discussed

Corequisites: None
Prerequisites: None

CMJ 102 INTRODUCTION TO CONSERVATION LAW ENFORCEMENT (3 CREDITS)

Description: This course is designed to introduce the student to the profession of conservation law enforcement. Topics will span an overview of the legal system in America, including the history and evolution of law enforcement and the criminal law, to the present status of the criminal justice system, wildlife and environmental law enforcement, parks and recreation law enforcement and the balancing of individual rights versus the protection of society. The relationship between law enforcement and natural resource management and public and community relations will also be discussed.

Corequisites: None
Prerequisites: None

CMJ 110 INTRODUCTION TO CORRECTIONS (3 CREDITS)

Description: This course is designed to provide an overview of the historical background of corrections. Topics discussed will include: the goal and purposes of corrections; the various past and current philosophies of corrections; the concepts and issues that determine the necessity for the development of the Maine Correctional Standards; the legal issues in corrections; the principles and issues of the Constitutional Law as it pertains to the 1st, 4th, 8th, and 14th Amendments and the rights of inmates; the structure and functions of incarceration; Probation and Parole Agencies, Management and treatment programs; and the differences between.

Corequisites: None
Prerequisites: None

CMJ 115 PROBATION AND PAROLE (3 CREDITS)

Description: In this course students will be introduced to probation and parole in the criminal justice system. Students will learn about the history of probation and parole and the differences between them. Students will learn theory and practices of probation and parole and will look at special issues and the future of probation and parole.

Corequisites: None
Prerequisites: None

CMJ 122 CRIMINAL LAW & REPORT WRITING I (3 CREDITS)

Description: This course deals with the application and philosophy of criminal law, with a focus on the applicability of the statutory law. The goals and purposes of the criminal justice system will be examined. The formulation of the substantive law and limitations on that authority will be studied.

Corequisites: None
Prerequisites: None

CMJ 201 CIVIL LIBERTIES (3 CREDITS)

Description: This course examines the constitutional aspects of the American criminal justice process, including search and seizure, arrest, interrogation, trial and appeal.

Corequisites: None
Prerequisites: None

CMJ 204 VICTIMOLOGY (3 CREDITS)

Description: This course presents a comprehensive and balanced exploration of victimology, a vital new and, at times, controversial branch of criminology. This course examines the victims' plight and is careful to place statistics from the FBI's Uniform Crime Reports and Bureau of Justice Statistics National Crime Victimization in context. This course systematically investigates how victims currently are handled by the criminal justice system, analyzes the goals of the victims' rights movement, and discusses what the future is likely to hold. Also discussed will be human trafficking, crimes on campus, identity theft, stalking, motor vehicle theft and prisoners attacked behind bars.

Corequisites: None
Prerequisites: None

CMJ 210 THE JUVENILE JUSTICE SYSTEM (3 CREDITS)

Description: This course will examine the Juvenile Justice system in America, including its history, philosophy and development, along with future challenges the system must confront. The rights of Juveniles in the American Juvenile Justice System will be thoroughly explored and discussed. Differences between the adult criminal system and juvenile offender treatment will be analyzed. The problems facing youth as well as the impact of cultural, sociological and other forces will be examined. Other societies' treatment of youthful offenders will be compared and contracted with the American system. Appropriate punishment of juvenile offenders, including community programs and institutionalization, will be studied. The class will explore in depth the challenges facing the juvenile justice system and discuss ways in which the system might be improved and advanced. Other modalities such as outside speakers, films and/or field trips may be utilized during the course to assist students in more fully integrating the concepts explored.

Corequisites: None
Prerequisites: None

CMJ 212 CRIMINAL INVESTIGATION AND REPORT WRITING II (3 CREDITS)

Description: This course is designed to teach students proper methods in which to prepare a case for possible court presentation. Included in the course will be appropriate information gathering techniques, report writing, and pre-court preparation. Proper courtroom procedures, witness styles and behavior will also be discussed.

Corequisites: None
Prerequisites: None

CMJ 220 POLICE OPERATIONS (3 CREDITS)

Description: This course is concerned with providing the student with an understanding of the role police play in today's society.

Corequisites: None
Prerequisites: None

CMJ 224 BASIC SEARCH AND RESCUE (3 CREDITS)

Description: This course is an introduction to search and rescue operations and will introduce the student to basic search and rescue techniques. Most of the course will be hands on work with map, compass, and GPS. Students will learn basic search and rescue terminology. Students will learn the importance of triage, SAR communications, and modes of extraction. Students will be

expected to participate in mock search and rescue scenarios and will prove their ability to function on a volunteer search and rescue team.

Corequisites: None
Prerequisites: None

CMJ 225 RACE AND ETHNICITY ISSUES IN LAW ENFORCEMENT (3 CREDITS)

Description: The course examines the impact of cultural diversity on law enforcement to include a discussion of cultural awareness, bias, prejudice, training, recruitment and cross-cultural communication. Police challenges in engaging with specific racial/ethnic groups are examined, to include Asian/Pacific Americans, African Americans, Latino/Hispanic Americans, Arab Americans, Native Americans and others. Homeland security concerns, racial profiling and hate crimes are also addressed.

Corequisites: None
Prerequisites: None

CMJ 245 CRIMINOLOGY (3 CREDITS)

Description: This course will define crime and evaluate the various ways crime is measured. Students will be provided with an overview of the more popular criminological theories, emphasizing the biological, psychological, and sociological schools of thought. In addition, crime control and prevention strategies as they relate to each theory will be examined in terms of theory, practice and effectiveness.

Corequisites: None
Prerequisites: None

CMJ 250 CRIMINALISTICS (3 CREDITS)

Description: This class examines the techniques of crime scene investigation. Once potential evidence has been identified at a crime scene it must be secured, documents and properly collected. The student will learn basic evidence collection techniques. The course will include lecture and actual crime scene search and evidence collection. The laboratory analysis of the following will be covered: glass, soil, organic and inorganic substances, hairs, fibers, paint, drugs, poison, arson and explosive evidence, serology, DNA, fingerprints, firearms, tool impressions, miscellaneous impressions, photography, document and voice examinations. Emphasis is added pertaining to the challenges that “Special Victims” present to investigators.

Corequisites: None
Prerequisites: None

CMJ 251 CRIMINAL JUSTICE TECHNICAL SKILLS (3 CREDITS)

Description: In this course students will work scenarios to improve critical thinking and decision-making skills. Students will assume the roles of Law Enforcement Officers and develop the following skill set; critical thinking, decision making, command presence, de-escalation, communication, interview and interrogation, use of force, search and seizure, physical restraint and control, vehicle stops, surveillance, crime scene processing, and leadership.

Corequisites: None
Prerequisites: Permission from the instructor is needed for admittance to this class

CMJ 253 FARO CERTIFICATION (3 CREDITS)

Description: This class examines the techniques of crime scene investigation. Once potential evidence has been identified at a crime scene it must be documented. The student will use the FARO Scanner and Scene on the computer to accurately scan and produce a computer 3D documentation of the scene. Testing is conducted online through FARO Technologies.

Corequisites: None
Prerequisites: Permission from the instructor is needed for admittance to this class

CMJ 255 CORRECTIONS MANAGEMENT (3 CREDITS)

Description: This course will cover the various phases of administration as they relate to corrections. Three basic stages are covered: executive, mid management, and like operations. Each of these levels will be discussed as they relate to institutions, community-based institutions, and the operation of probation and parole. Problems and their possible solutions will be covered for each division of corrections.

Corequisites: None
Prerequisites: None

CMJ 297 CRIMINAL JUSTICE INTERNSHIP (3 CREDITS)

Description: In this course, a student is placed with a criminal justice agency and is supervised by the criminal justice internship coordinator. To participate in the internship, students must have completed at least two semesters and be in their second year at WCCC. Students must have a minimum 2.5 grade point average.

Corequisites: None
Prerequisites: None

COM and COMM Course Descriptions

The following is a list of the course descriptions for all COM and COMM courses currently offered at the college.

COM 200 ENVIRONMENTAL INTERPRETATION (3 CREDITS)

Description: This course will provide an overview of interpretation of the natural environment and its important role in sharing outdoor educational experiences with the public and enhancing the quality of recreational experiences and programs offered by parks and recreation agencies. Examples of innovative and successful interpretive and environmental education programs will be described and discussed.

Corequisites: None
Prerequisites: ENV 110 or with instructor permission

CPT and COMP Course Descriptions

The following is a list of the course descriptions for all CPT and COMP courses currently offered at the college.

COMP 140 DIGITAL FLUENCY FOR THE MODERN WORKPLACE (3 CREDITS)

Description: This introductory course provides a foundation in essential digital skills needed for success in today's workplace. The course will begin with the basics of creating, organizing, and managing digital files, ensuring you understand how to navigate and utilize computer systems effectively. Students will learn about common hardware and software and create visually appealing and well-formatted documents and presentations. Students will also discover the power of spreadsheets for basic data analysis, learning how to summarize and visualize information. Finally, the concept of collaborative digital workspaces will be covered, demonstrating how teams can work together effectively on projects using shared online resources. This course emphasizes hands-on practice and real-world application in a professional setting.

Corequisites: None
Prerequisites: None

CPT 123 ELECTRONIC SPREADSHEET (3 CREDITS)

Description: This course begins by introducing students to spreadsheet applications using Microsoft Excel. Spreadsheet basics will be taught that can be applied to any spreadsheet software with which the student may be confronted. The student will progress from introductory

to the advanced features of Microsoft Excel. The student will learn to create charts, protect worksheets, create templates and outlines, create and edit graphic objects, create and filter lists, embed and share data, create and execute macros, create hyperlinks and utilize Excel's advances data analysis tools. Using spreadsheet programs to manage numerical and financial data and to analyze and evaluate information in business applications is emphasized. (Creating financial statements, preparing budgets, managing inventory, analyzing cost flow, etc.) Upon successful completion of this course, students are prepared for Microsoft Office User Specialist (MOUS) Expert Level certification. Students will demonstrate knowledge of understanding of business spreadsheet applications by completing a practical business spreadsheet as a final project.

Corequisites: None
Prerequisites: COMP 140 or permission from instructor

DRG and AEDD Course Descriptions

The following is a list of the course descriptions for all DRG and AEDD courses currently offered at the college.

DRG 124 PRINT READING, SKETCHING, AND INTRO TO CAD (3 CREDITS)

Description: This course provides instruction in the basics of technical drawings, sketching, mechanical print reading and an introduction to Computer-Aided Drafting using industry standard software. Students will create drawings, both on paper and through the use of the CAD software, that are particular to their chosen trade.

Corequisites: None
Prerequisites: None

DRG 126 ARCHITECTURAL DRAFTING AND CAD (3 CREDITS)

Description: This course provides instruction in the basics of technical floor plan drawings, sketching, architectural print reading and an introduction to Computer-Aided Drafting using industry standard software. Students will create drawings, both on paper and through the use of the CAD software, that are particular to all facets of home construction.

Corequisites: None
Prerequisites: None

ECE and ECED Course Descriptions

The following is a list of the course descriptions for all ECE and ECED courses currently offered at the college.

ECE 100 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3 CREDITS)

Description: This course provides an overview of the field of early childhood education, including historical and contemporary influences along with major theories of development and learning. Students will become familiar with the core considerations of developmentally appropriate practice (DAP). The National Association of Education of Young Children (NAEYC) Professional Standards and Competencies and Code of Ethical Conduct. Students will explore the role of the teacher in building relationships with children, families and communities in a diverse society.

Corequisites: None
Prerequisites: None

ECE 104 PROFESSIONAL DEVELOPMENT IN EARLY CHILDHOOD EDUCATION (3 CREDITS)

Description: Each student will create a professional portfolio by presenting each of the six NAEYC professional development standards and identifying related competencies for early childhood educators. The portfolio is designed to prepare the student to develop the capacity to understand, reflect upon, and integrate the professional standards into practice for work with, and on behalf of, young children and their families.

Corequisites: None
Prerequisites: ECE 100 or by permission

ECE 185 OBSERVATION AND ASSESSMENT IN EARLY CHILDHOOD (3 CREDITS)

Description: This course is designed to explore how to conduct observation and assessment of young children. The course will further provide the student with the knowledge and skills to interpret and use the information gained to plan activities that are responsive to and supportive of children's learning and development. Students will have the opportunity to engage in assessment processes through means of classroom observations, providing each student with a stronger understanding of child development skills. Students learn about and explore a variety of assessments to gather and share information on each child's skills, abilities, interests and needs, birth through age 8.

Corequisites: None
Prerequisites: None

ECE 197 FIELD EXPERIENCE IN EARLY CHILDHOOD EDUCATION (100 HOURS) (3 CREDITS)

Description: This 100-hour field experience is intended to involve students with practical experience in observing, teaching, and participating with young children in an early childhood setting (ages 0-8). The experience will be supervised by one or more cooperating teacher/providers and coordinated by the college supervisor. The student will encounter as many actual teaching experiences as possible in a semester and will gradually be given more responsibilities.

Corequisites: None
Prerequisites: ECE 100, ECE 185, PSY 190 or by permission

ECE 210 CHILD GUIDANCE AND DISCIPLINE (3 CREDITS)

Description: This course will discuss the differences between punishment and discipline and techniques for guiding children. Topics will include positive reinforcement, redirection of negative behavior, setting and enforcing limits, and the natural and logical consequences of a child's choices. Students will also learn techniques for self-control and stress management and develop an understanding that discipline develops from a respect for the dignity of the child.

Corequisites: None
Prerequisites: None

ECE 230 CURRICULUM IN EARLY CHILDHOOD EDUCATION (BIRTH TO THREE YEARS) (3 CREDITS)

Description: This course will provide an in-depth study into the development of curriculum for infants and toddlers. Topics include the diverse approaches to infant-toddler rearing and the very early years as a crucial time when basic patterns of living and learning are set. The course focuses on the needs of infants, toddlers, parents, and caregivers through age-appropriate scheduling, assessment of individual development and long-range planning. Students will develop creative instructional materials and will evaluate and utilize commercially developed products.

Corequisites: None
Prerequisites: None

ECE 235 CURRICULUM IN EARLY CHILDHOOD EDUCATION (AGES 3-8) (3 CREDITS)

Description: Emphasis will be on the development of curriculum and materials for the pre-school and primary age child. Focus will be on integrative curriculum through art, music, movement, math, social studies, science, and drama. Students will design and participate in activities using multiple intelligences and the project approach.

Corequisites: None
Prerequisites: None

ECO and ECON Course Descriptions

The following is a list of the course descriptions for all ECO and ECON courses currently offered at the college.

ECO 200 MACROECONOMICS (3 CREDITS)

Description: This course examines the allocation of scarce resources and the economic reasoning used by people as consumers, producers, savers, investors, workers, voters, and government agencies. Key elements include the study of scarcity, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade.

Corequisites: None
Prerequisites: None

ECO 201 MICROECONOMICS (3 CREDITS)

Description: This course covers microeconomics the market structure of firms operating in competition and monopoly, labor markets and unions, income distribution, current economic problems, international economic, and alternative economic systems.

Corequisites: None
Prerequisites: None

EDU and EDUC Course Descriptions

The following is a list of the course descriptions for all EDU and EDUC courses currently offered at the college.

EDU 103 INTRODUCTION TO EDUCATION, SCHOOL, AND COMMUNITY (3 CREDITS)

Description: This course is designed as an introduction to the field of education and the influences of school and community on our educational system. Students will be introduced to the teaching profession, will explore current issues in education, and will actively discover a variety of resources available to educators.

Corequisites: None
Prerequisites: None

EDU180 CHILDREN'S LITERATURE (3 CREDITS)

Description: Emphasis will be placed on creating a learning environment that encourages children to develop an interest in reading and literature. Experiences will include the evaluation, selection and presentation of age-appropriate reading materials, and strategies such as creative dramatics, poetry and finger play to foster an interactive and communication-rich environment filled with oral and written resources.

Corequisites: None
Prerequisites: None

EDU 210 GUIDED SELF-STUDY IN EDUCATION (100 HOURS) (3 CREDITS)

Description: As an alternative for self-directed students, students have the opportunity to do a self-guided, self-study project, subject to the approval of the department chair. The project is to be in an area of education chosen by the student. It must have effective application in the classroom, school or district. The project's subject and an initial outline of the plan are to be presented to the department chair for approval.

Corequisites: None
Prerequisites: None

EDU 215 LEARNING AND THE BRAIN (3 CREDITS)

Description: This course is an overview of the human brain and a study of how recent advances in technology and brain research are revolutionizing our understanding of how the brain learns. Students will learn to develop and implement strategies to enhance student learning by teaching with the brain in mind.

Corequisites: None
Prerequisites: None

EDU 226 TEACHING, LEARNING, AND TECHNOLOGY (3 CREDITS)

Description: This course is an overview of educational technologies designed to enhance the abilities of students to effectively use technology in educational settings. The use of technology for differentiated learning styles of students will be emphasized. Students will evaluate and use online resources effectively.

Corequisites: None
Prerequisites: None

EDU 245 ASSESSMENT AND RESPONSE TO INTERVENTION (RTI) (3 CREDITS)

Description: This course will provide learners with the skills needed to effectively understand and apply the use of assessment and Multitiered Support Systems (MTSS) within the classroom. Learners will gain an understanding of the MTSS structure and its use. They will be able to define the different types of assessment, such as formative and summative, and know which ones to use, and when.

Corequisites: None
Prerequisites: None

EDUC 255 METHODS OF INSTRUCTION FOR ALL STUDENTS: SPECIAL PROJECTS (3 CREDITS)

Description: This course is designed to guide students in preparing to teach a variety of subject matter at the middle and high school levels and to support the attainment of a wide repertoire of researched-based teaching and learning strategies. The emphasis will be on content, methodology and process and will increase student knowledge of instructional methods and pedagogical content knowledge. Planning for instruction that is differentiated as well as incorporating science-based practices such as Universal Design for Learning will be explored. Current issues in education as well as 21st century technology will be covered. Special project assignments will be adapted to provide the student with multiple opportunities to respond to the prompts in consideration of the subject matter and level at which they will be teaching within the 6-12 grade range and the instructor will provide MDOE with documentation of the focus of your study in the course.

Corequisites: None
Prerequisites: None

EDU 275 MULTIPLE INTELLIGENCES (3 CREDITS)

Description: This course is an in-depth examination of Howard Gardner's theory of Multiple Intelligences and of the many kinds of abilities and many ways learners demonstrate potential. The emphasis of the course will be on understanding the multiple ways people learn and designing lessons to accommodate each student's individual strengths.

Corequisites: None
Prerequisites: None

EDU 280 INTERNSHIP IN EARLY CHILDHOOD EDUCATION, ELEMENTARY OR HIGH SCHOOL (6 CREDITS)

Description: The early childhood internship is intended to involve students with practical experience in observing, teaching, one-on-one assistance and participating with young children in early childhood or education settings for a minimum of 200 hours throughout 15 weeks. The experience will be supervised by one or more cooperating teacher/providers and by the college supervisor. The student will encounter as many actual guidance/teaching/tutoring experiences as possible in a semester.

Corequisites: None
Prerequisites: ECE Majors: CEC 100, ECE 185, PSY 190, ECE 197, EDU Majors: EDU 103, PHY 190

EDUC 285 STUDENT TEACHING IN SECONDARY EDUCATION (GRADES 6-12) (12 CREDITS)

Description: A field experience in a secondary classroom (Grades 6–12) where teacher candidates gradually assume full teaching responsibilities. Candidates demonstrate content knowledge, instructional planning, classroom management, and reflective practice under the guidance of a cooperating teacher and university supervisor. This course is designed for individuals with non-education Bachelor's degrees who wish to become certified to teach in the State of Maine.

Corequisites: None
Prerequisites: Passing scores on required certification exams (e.g., Praxis) where required, approved background check, and Bachelor's degree.

EIT and ELEC Course Descriptions

The following is a list of the course descriptions for all EIT and ELEC courses currently offered at the college.

EIT 180 PROGRAMMABLE LOGIC CONTROL I (3 CREDITS)

Description: An introduction to Programmable Logic Controllers (PLCs) including hardware, number systems, the fundamentals of logic and the basics of PLC programming. Students will start with a review of mechanical and electronic inputs and outputs to the PLC and covering hardware, software, and ladder logic programming. Allen-Bradley MicroLogix PLCs are used with RS Logix 500 programming software. Process Control systems and industrial networks are introduced. Labs use PLC application trainers, miniature machine trainers as well as software simulators.

Corequisites: None
Prerequisites: TEC 151

EIT 225 INDUSTRIAL INSTRUMENTATION, AUTOMATION, AND PROCESS CONTROL (3 CREDITS)

Description: The course is designed to give a student or electrician knowledge of industrial instrumentation. Process measurements of Pressure, Flow, Level, Density, Humidity, and Temperature are covered. The different types of transmitters, final control elements, controllers and transducers are included as well as converting from analog to digital and digital to analog. Automatic control theory includes on-off, PID, cascaded and feed forward control. Documentation includes ISA symbols, SAMA symbols, P&IDs and Loop sheets. Labs include control tuning with miniature machines as well as simulation software which provide insight into industrial process control.

Corequisites: None
Prerequisites: TEC 151

EIT 240 PROGRAMMABLE LOGIC CONTROL II (3 CREDITS)

Description: This course uses the large tag-based Programmable Automation Controllers (PAC). Allen-Bradley Control Logic hardware with RS Logix 5000 software is used. The course included advanced PLCs, processors, programming terminals and peripherals. PLC communications includes topology, industrial networks, process automation protocols and industrial control system protocols. Installation and maintenance of the PACs are covered as well as an introduction to Distributed Control Systems (DCS). The emphasis is on tag-based ladder logic programming, data handling and program control instructions. Labs use PLC application trainers, miniature machine trainers as well as software simulation.

Corequisites: None
Prerequisites: EIT 180

EIT 250 INDUSTRIAL ELECTRICAL TROUBLESHOOTING (3 CREDITS)

Description: This course covers the fundamentals of installing, programming and troubleshooting of digital and analog PLC modules. Troubleshooting principles include both electrical motor starters and Programmable Logic Controller (PLC) systems. Troubleshooting uses multimeters, specialized test instruments and oscilloscopes. PLC and electrical safety in troubleshooting are emphasized. The PLC part of the course uses Allen-Bradley products from Rockwell Automation. Content includes PLC hardware, electrical circuits, programming instructions, system interfacing, installation and startup as well as troubleshooting. Troubleshooting methods for the PLCs uses both hardware and software. Analog principles and device installation, programming and troubleshooting are included. Troubleshooting of hydraulic and pneumatic systems are included. Electrical troubleshooting trainers are used with fault switches to set short circuit or open circuit faults in the trainer for realistic hands on experience.

Corequisites: None
Prerequisites: TEC 151

EMS and EMST Course Descriptions

The following is a list of the course descriptions for all EMS and EMST courses currently offered at the college.

EMS 113 EMERGENCY MEDICAL TECHNICIAN-INTERMEDIATE (6 CREDITS)

Description: A 240-hour course that builds on the knowledge and skills acquired in the basic EMT course, this intermediate program covers physiology of the respiratory and cardiovascular systems, airway assessment and management, recognition and management of shock, and cardiac disorders. The course is open to currently licensed basic EMTs who are recommended by their ambulance or rescue services. Clinical experience will include time in cardiac care units, an operating room to perform endotracheal intubation and peripheral IV insertions. This is a state-approved training program following state and national guidelines and curriculum. Upon successful completion of all parts of the course, the student is eligible for the State of Maine written and practical licensing examinations for advanced EMT-intermediate.

Corequisites: None
Prerequisites: None

EMS 114 WILDERNESS ADVANCED FIRST AID (1.5 CREDITS)

Description: This course is an entry-level course designed for professionals working in significantly remote settings for days or weeks. Wilderness Advanced First Aid is comprehensive

medical training designed for remote professionals or wilderness leaders who venture into remote and challenging environments. Wilderness medicine differs significantly from standard first aid courses and other training that are oriented toward urban environments. This course teaches how to manage medical emergencies when hospitals and rescue services may not be available for an extensive time period and prepares students for emergency situations that involve prolonged patient care, severe environments, and improvised equipment. Successful completion of this course may lead to certification from Wilderness Medical Associates in Wilderness Advanced First Aid (WAFA) or Wilderness First Aid (WFA).

Corequisites: None
Prerequisites: ADV 119

EMS 115 WILDERNESS FIRST RESPONDER (3 CREDITS)

Description: This course differs significantly from conventional EMS courses and other programs that are oriented towards the urban environment. In this course, the student will learn to deal with medical emergencies when help is miles away and dialing 911 is not an option. The student will prepare for emergency situations that involve prolonged patient care, severe environments, and improvised equipment. Wilderness First Responder is the definitive medical training course for all outdoor leaders and enthusiasts.

Corequisites: None
Prerequisites: Student must be at least 16 years of age to participate in this course; 16-17-year-olds must provide written proof of parental consent.

EMS 116 WILDERNESS FIRST RESPONDER BRIDGE (1.5 CREDITS)

Description: The WFR Bridge course upgrades the Wilderness Advanced First Aid certification to a Wilderness First Responder (WFR) credential. This course must be taken within 3 years of receiving the WMA International WAFA certification or an equivalent from another provider. The WFR is the definitive medical training course for all outdoor professionals and enthusiasts. This course may be used as a recertification for those holding a current WFR certification or equivalent from another provider whose original WFR training was at least 64 hours in length. Current WMA International Wilderness EMTs may also use this course to recertify the wilderness portion of their certification. Successful completion of this course may lead to certification from Wilderness Medical Associates.

Corequisites: None
Prerequisites: EMS 115

EMS 201 FUNDAMENTALS OF EMS (3 CREDITS)

Description: Introduces the student to the role of the Advanced Life Support Provider. Topics covered include roles and responsibilities of ALS providers, medical terminology, self-care, and initial patient stabilization and management. Students will learn how to obtain a history and perform a physical assessment on a patient.

Corequisites: None
Prerequisites: None

EMS 202 CARDIAC/RESPIRATORY EMERGENCIES (3 CREDITS)

Description: Provides an in-depth study of the respiratory and cardiovascular system. In the lab, students will learn advanced airway skills, perfect ventilation techniques, and perform basic cardiac rhythm interpretation. An introduction to the pathophysiology and management of cardiovascular and respiratory disorders will be provided. This course serves as a core course for the EMT-Intermediate (AEMT) licensure.

Corequisites: None
Prerequisites: None

EMS 205 EMT SKILLS SEMINAR (2 CREDITS)

Description: This course serves two major purposes. First, it serves as a refresher for those currently licensed Advanced EMTs wishing to become paramedics. Second, it is a required course for students who seek to be licensed at the Advanced EMT (AEMT) level. Students will review and practice all intermediate/advanced EMT skills in an interactive seminar format. The course includes multiple case studies, interactive lab sessions, and creative teaching methods. The course concludes with mandatory skills tests to assure mastery of the topics covered in the AEMT curriculum.

Corequisites: None
Prerequisites: None

EMS 206 EMT CLINICAL PRECEPTORSHIP AND FIELD INTERNSHIP (3 CREDITS)

Description: This course provides students the opportunity to apply the didactic knowledge and skills developed in the classroom, in the pre-hospital and clinical setting. Students partner with pre-hospital providers at local ambulance services and clinical preceptors in various healthcare settings to develop skills in clinical decision-making, electrocardiology, and management of acute

and chronic disease. This clinical experience focuses in the skills needed to function at the Intermediate/AEMT level.

Corequisites: None
Prerequisites: None

ENG and ENGL Course Descriptions

The following is a list of the course descriptions for all ENG and ENGL courses currently offered at the college.

ENG 101 COLLEGE COMPOSITION (3 CREDITS)

Description: This course provides an introduction to academic writing. Students will study and practice standard rhetorical modes through frequent writing assignments and critical analysis of reading selections. This course emphasizes writing as a process of drafting, revising, rewriting, and proofreading. It also provides an introduction to information literacy. Students will study and practice locating, evaluating, integrating, and documenting sources in MLA style.

Corequisites: None
Prerequisites: None

ENG 107 SPEECH (3 CREDITS)

Description: This oral communication course offers experience in the selection and organization of speech content, audience analysis, and delivery. Classroom experience emphasizes preparation and delivery of informative and persuasive speeches, as well as other types of oral presentations.

Corequisites: None
Prerequisites: None

ENG 111 COLLEGE COMPOSITION WITH LAB (3 CREDITS)

Description: This course provides an introduction to academic writing. Through frequent writing assignments, students will study and practice several academic genres, analyzing how purpose, audience, and context shape research, strategies for organization, and language usage. Critical analysis of reading selections will reinforce students' rhetorical awareness. This course emphasizes that writing is a flexible, collaborative process that is informed by feedback and reflection. It also provides an introduction to information literacy. Students will study and practice locating, evaluating, integrating, and documenting sources in MLA style. ENG 111

includes an additional two hours of supplemental instruction each week that allows for more time with the instructor and/or working in a writing lab.

Corequisites: None
Prerequisites: Placement into ENG 111 will be determined by departmental measures.

ENG 203 SPECIAL TOPICS IN LITERATURE (3 CREDITS)

Description: This course varies each semester. It focuses on a given author, literary genre or motif. Each course will study a variety of representative works of literature on the special topic. Some of the topics have included Shakespeare, Mark Twain, King Arthur, and Maine poetry. Students can take multiple versions of this course for credit because the topics differ.

Corequisites: None
Prerequisites: None

ENG 208 CREATIVE WRITING (3 CREDITS)

Description: This course will serve as an introduction to the writing of poetry, fiction, and creative non-fiction. Students will study the literary techniques and forms central to each of these genres and then apply them to produce original manuscripts. In addition, students will read and discuss exemplary texts from published writers. Students will also learn to critique their own work and the work of others through in-class workshops.

Corequisites: None
Prerequisites: ENG 101/ENG 111 passed with a C or better, or satisfactory scores on the reading and writing placement tests.

ENG 209 SHAKESPEARE (3 CREDITS)

Description: This course is an introductory analysis of Shakespeare's dramatic and poetic works. Key themes and scenes, as well as language use, will be assessed as they connect to the social context of that time and also to contemporary culture and current issues. Additionally, film and theatrical productions will be viewed for several dramatic works to study the translations of Shakespeare's text to visual media.

Corequisites: None
Prerequisites: ENG 101/ENG 111 passed with a C or better, or satisfactory scores on the reading and writing placement tests.

ENG 210 TECHNICAL WRITING (3 CREDITS)

Description: This course provides students with workplace communication skills regularly used in industry and trade professions. Students will focus on various writing situations common in industry and choose suitable organization, development, and presentation methods, which could include memo, letter, informal/formal reports, instructions and technical graphics. Students will also practice job procurement skills and presenting technical information orally. Since this course is taught in a computer lab, students should have adequate internet and computer skills.

Corequisites: None
Prerequisites: ENG 101/ENG 111 passed with a C or better

ENG 212 INTRODUCTION TO LITERATURE (3 CREDITS)

Description: This course introduces students to the principal literary genres, including epic and lyric poetry, the short story, the novel, and drama, with attention to textual analysis, literary terminology, and critical research. Students will prepare oral and written class presentations.

Corequisites: None
Prerequisites: ENG 101/ENG 111 passed with a C or better

ENG 214 LITERATURE AND FILM (3 CREDITS)

Description: This course examines the relationship between film and literary text (novels, short stories and plays) and analyzes how narrative is interpreted and re-interpreted through fiction and cinematic techniques. Students will explore how a director translates a writer's story using the tools of film to create a distinct and unique visual narrative. Just like critically reading a novel, students will learn how to critically read a film and use this knowledge to interpret and evaluate both artistic modes and how they inter-relate and how they diverge.

Corequisites: None
Prerequisites: ENG 101/ENG 111 passed with a C or better

ENG 215 CONTEMPORARY AMERICAN FICTION (3 CREDITS)

Description: In this course, students will read and study a selection of recent American fiction, from 1945-present. They will consider and discuss contemporary short stories and novels as individual texts, as well as in relation to one another. They will also analyze the texts within the context of contemporary American culture, politics, history, and identity, including issues related to race, class, gender, ethnicity, religion, and sexuality. Students will focus on reading the texts critically and actively, learning the language and framework of literary analysis. Students will

study the history and evolution of the novel, along with the formal and stylistic considerations that novelists take into account while writing their texts.

Corequisites: None
Prerequisites: ENG 101/ENG 111 passed with a C or better, or satisfactory scores on the reading and writing placement tests.

ENV and ENVR Course Descriptions

The following is a list of the course descriptions for all ENV and ENVR courses currently offered at the college.

ENV 110 FIELD NATURAL HISTORY (4 CREDITS)

Description: This is a course that will emphasize field and laboratory studies of the diversity and richness of habitats found in Maine. Examination of the interplay between living and non-living systems within fresh water, marine and terrestrial environments will be the focus of these studies. Students will appropriately use basic field and laboratory equipment to conduct environmental investigations and write suitable technical (lab) reports regarding their investigations.

Corequisites: None
Prerequisites: None

ENV 135 WILDLIFE AND FISHERIES MANAGEMENT (3 CREDITS)

Description: This course introduces students to current wildlife techniques including creature survey methods, data collection and analysis practices, estimation of abundance, capturing and tagging, identification, aging, habitat evaluation, and scientific investigation.

Corequisites: None
Prerequisites: None

ENV 140 RECREATIONAL AND ENVIRONMENTAL LAND MANAGEMENT (3 CREDITS)

Description: This class will explore the proper management of sustainable landscapes while balancing and protecting wildlife habitat while offering the public access to safe, affordable, and healthy ways to experience and appreciate nature. This class will teach an understanding of the need to contribute to the economic well-being of communities through conservation and providing many economic benefits to communities derived from outdoor recreation. This class

combines lectures along with outdoor lab. The outdoor lab will include trail building, maintenance, and design.

Corequisites: None
Prerequisites: None

FYE and CLGE Course Descriptions

The following is a list of the course descriptions for all FYE and CLGE courses currently offered at the college.

FYE 100 FIRST YEAR EXPERIENCE (3 CREDITS)

Description: Students will actively and deliberately engage in the requirements of their transition into college. This seminar focuses on how to succeed. It will facilitate a strong start, empower with necessary skills and awareness, chart a path toward achievement of goals, and direct students toward supports as needed. Particular attention will be paid to navigating the college environment, expectations of the institution, individual learning style, career development, academic strategies, community building, time management and time theft.

Corequisites: None
Prerequisites: None

GET and TECH Course Descriptions

The following is a list of the course descriptions for all GET and TECH courses currently offered at the college.

GET 199 GENERAL TECHNOLOGY (MAXIMUM 24 CREDITS)

Description: Prior Learning – Portfolio Assessment

Recognition is granted of appropriate and significant prior learning and its credit relationship to degree requirements. Knowledge and skills (not chronological experience) acquired prior to matriculation are systematically identified and documented in a portfolio, which is assessed by the college, and credit is awarded.

Corequisites: None
Prerequisites: ENG101 and Portfolio Development Instruction passed with a C or better.

HIS and HIST Course Descriptions

The following is a list of the course descriptions for all HIS and HIST courses currently offered at the college.

HIS 112 AMERICAN HISTORY TO RECONSTRUCTION (3 CREDITS)

Description: This course will cover the United States from its first inhabitants to European exploration, settlement, the Revolution, Independence, and the creation of a new nation. They will explore concepts of Sectionalism, political parties, Jacksonian democracy, Age of Reform, westward expansion, the impending crisis, Civil War and reconstruction. Students will be introduced to major political, economic, military, social, and cultural developments from earlier beginnings to reconstruction.

Corequisites: None
Prerequisites: None

HIS 113 AMERICAN HISTORY FROM RECONSTRUCTION (3 CREDITS)

Description: This course will study the United States from the reconstruction period to the present. Topics will include growth of the West and South. The Machine Age, the Progressive Era, World War I, the roaring 20s, depression, recovery, reform, World War II, the Cold War, reform and conflict of the 1960s and the 1970s, the Reagan Era, post Reagan up to current events. The student will be exposed to concepts of U.S./foreign relations and will be introduced to the major political, economic, military, social, and cultural developments of this period including developing an understanding of the new global economy and its relationship to the U.S.

Corequisites: None
Prerequisites: None

HIS 115 MAINE HISTORY (3 CREDITS)

Description: Students will become aware of the aspects of Maine's past, and present, that are unique to New England and the State. We will examine the history of Maine's communities and economies and rediscover how the production of its most lucrative commodities translated to changes over time. Maine history is also used as a microcosmic example to identify, clarify, and explain the problems and themes of national history and the impact of national events on individual states. This course uses historical inquiry and introduces research through source analysis and archival examination.

Corequisites: None
Prerequisites: None

HIS 117 WORLD HISTORY TO 1715 (3 CREDITS)

Description: Within the time frame, particular emphasis will be placed on the ideas, institutions, and cultural heritage of civilization, as well as a more traditional focus on political events. Emphasis will be placed on the following key themes: the political, philosophical, and cultural legacies of ancient Greece and Rome; the origins and beliefs of Judaism and Christianity; Medieval society and institutions; the Renaissance and Reformation; European exploration and colonization; the emergence of capitalism; the English Revolution; Constitutionalism and Absolutism; the Scientific Revolution and the Enlightenment.

Corequisites: None
Prerequisites: None

HIS 119 WORLD HISTORY FROM 1715 TO PRESENT (3 CREDITS)

Description: Within the time frame, particular emphasis will be placed on the ideas, institutions, and cultural heritage of the West, as well as more traditional focus on political events. Emphasis will be placed on the following key themes: the legacy and meaning of the American and French Revolutions, the Industrial Revolution, the ideologies of 19th and 20th century Europe, imperialism, and decolonization; the origin and impacts of the two world wars and postwar superpower relations.

Corequisites: None
Prerequisites: None

HIS 122 HISTORY OF COMMERCIAL FISHING IN MAINE (3 CREDITS)

Description: This course is designed to give a broad background in Maine history. Maine history is used as a microcosmic example to identify, clarify, and explain the problems and themes of national history. At the same time, students will become aware of the aspects of Maine's past that are unique to New England and to the state.

Corequisites: None
Prerequisites: None

HUS and HUMS Course Descriptions

The following is a list of the course descriptions for all HUS and HUMS courses currently offered at the college.

HUS 101 INTRODUCTION TO HUMAN SERVICES (3 CREDITS)

Description: Students will learn about human services, the helping process, and the role and function of the human service professional. The purpose of this course is to examine the broad range of services and varying responsibilities of the human service professional. Students will gain an understanding of the types of agencies where human service professionals are employed and be exposed to an overview of the human service profession. This course is the first course toward training students to become professionals in the human service field.

Corequisites: None
Prerequisites: None

HUS 102 TOPICS IN HEALTH & AGING (3 CREDITS)

Description: This course explores topics and issues related to various aspects of aging, including sociological, governmental, political, health care, and economic. The course looks at the issues associated with our aging population and how those issues affect people of all ages. Several current controversies associated with our changing population are examined.

Corequisites: None
Prerequisites: None

HUS 125 DRUG, SUBSTANCE USE AND RECOVERY (3 CREDITS)

Description: An exploration of substance abuse in contemporary society, this course reviews the physical, psychological, and social impact of substance abuse and addresses the strategies used in treating it. The impact of substance abuse from a personal, familial, social, economic, and public health perspective will be emphasized.

Corequisites: None
Prerequisites: None

HUS 135 GERONTOLOGY (3 CREDITS)

Description: This course offers an introduction and overview to the field of gerontology and the issues associated with aging and older adulthood. Students will explore the biological, social, and cultural influences of aging, as well as the physical, psychological, and spiritual needs of an aging population.

Corequisites: None
Prerequisites: None

HUS 155 INTRODUCTION TO SUBSTANCE USE, POVERTY AND TRAUMA (3 CREDITS)

Description: This course provides an introduction to mind-altering substances, poverty, and trauma, examining their interrelated impacts on health and society. Students will explore common categories of substances, including their neurobiology and health consequences. The course will look at the various definitions and types of poverty in the United States and the biopsychosocial consequences that arise from economic hardship. Students will learn about trauma, its definitions, and the various types that exist, along with the lasting effects of trauma on individuals throughout their lifespan.

Corequisites: None
Prerequisites: None

HUS 204 HUMAN SERVICE INTERNSHIP I (3 CREDITS)

Description: This 135-hour internship (serves to put knowledge into practice. Students will partner with one or more human service providers to gain experience and an in-depth, personal understanding of the work of human service professionals. Periodic meetings with faculty are required.

Corequisites: None
Prerequisites: HUS 101 and PSY 101, or with instructor permission

HUS 205 HUMAN SERVICE INTERNSHIP II (3 CREDITS)

Description: The internship serves to put knowledge into practice. Students will partner with one or more human service providers to gain experience and an in-depth, personal understanding of the work of human service professionals. Periodic meetings with faculty are required.

Corequisites: None
Prerequisites: HUS 204. Additional requirements may be set by individual sites.

HUS 210 ETHICS AND POLICY IN HUMAN SERVICES (3 CREDITS)

Description: An introduction and overview of the ethical obligations of human services professionals and the policies that guide their work. The course will review the Code of Ethics as well as ethical dilemmas and challenges that many professionals face as well as the appropriate use of consultation and supervision. The course will review State and Federal Policies, how they relate to ethical principles and the role of the human services professional in advocating for policy change and encouraging self-advocacy.

Corequisites: None
Prerequisites: None

HUS 213 CASE MANAGEMENT (3 CREDITS)

Description: An introduction in case management as it is utilized in health and human services. Case management is a process of accessing a client's needs, and planning and facilitating their connections with health and human services and other resources. Case management includes education, advocacy and networking with providers and services across many disciplines. The course will introduce students to the skills and responsibilities central to case management, as well as professional, legal, and ethical issues that impact this service.

Corequisites: None
Prerequisites: None

HUS 215 CRISIS IDENTIFICATION AND RESOLUTION (3 CREDITS)

Description: Students will become familiar with crisis theory and behaviors that often prompt crisis interventions, and which interventions are used in times of crisis. The course will cover topics such as severe and persistent mental illness, co-incurring disorders, trauma, and threats to self and others.

Corequisites: None
Prerequisites: HUS 101 or with instructor permission

HUS 219 COMMUNITY MENTAL HEALTH (3 CREDITS)

Description: A study of community mental health systems from historic and current perspectives. Emphasis is placed on the work of social service agencies and the roles of human service workers in treating the whole person and integrating care. The nature of helping relationships including attitudes, values, skills and conflicts will be explored.

Corequisites: None
Prerequisites: None

HUS 222 DISABILITIES AND PSYCHO-SOCIAL REHABILITATION (3 CREDITS)

Description: An overview of perspectives relating to the day-to-day problems of persons with mental, physical and developmental disabilities including mental retardation, autism, cerebral palsy, epilepsy, traumatic brain injury and other nervous symptom disorders. The rehabilitation process will be examined, including strategies and techniques for rehabilitation of the various disabilities. Additional focus will be on developing the knowledge and skills necessary for

functional assessment and rehabilitation planning. Ethical and legal issues such as self-determination, strategies for independence and nondiscrimination will be addressed.

Corequisites: None
Prerequisites: PSY 101 or with instructor permission

HUS 223 VOCATIONAL ASPECTS OF DISABILITY (3 CREDITS)

Description: This course will examine the rehabilitation process, including strategies and techniques for rehabilitation of various disabilities. Students will become familiar with vocational implications of physical, psychiatric, and intellectual disabilities. Additional focus will be on developing the knowledge and skills necessary for functional assessment and rehabilitation planning. Employment resources and theories, as well as tools to assist individuals in finding and maintaining employment will be emphasized. Ethical and legal issues such as self-determination, strategies for independence and non-discrimination will be addressed.

Corequisites: None
Prerequisites: None

HUS 231 INTERVIEWING AND COUNSELING (3 CREDITS)

Description: An introductory course focusing on the skills fundamental to professional interviewing and to different psychological approaches to counseling. Ethical issues will be emphasized. Students will participate in small group sessions to practice their interviewing and counseling techniques and to hone their skills in group processes, communication patterns, leadership, and decision-making. The class will include group participation, role-playing and simulation.

Corequisites: None
Prerequisites: None

HUS 236 TRAUMA AND RECOVERY (3 CREDITS)

Description: Students will become familiar with trauma, screening and assessment tools, as well as resources and the use of natural and professional supports for those who have experienced trauma. Students will become aware of the lasting effects that trauma can have and become familiar with the recovery model.

Corequisites: None
Prerequisites: None

HUS 240 GROUP PROCESS (3 CREDITS)

Description: This course will introduce group development, group dynamics and group facilitation. Students will learn the various stages of groups and the role of the counselor at each stage of growth. Different types and styles of groups will be introduced as will counseling theories and group facilitation skills.

Corequisites: None
Prerequisites: None

HUS 245 ADDICTION AND THE FAMILY (3 CREDITS)

Description: This course looks at substance use and substance use disorders as they relate to families and affected others. Students will learn about society and cultural perspectives on substance use and risk factors, protective factors, and building resiliency in families. Students will become familiar with typical family roles and dynamics as they explore addiction as a family disease. The relationship between addiction and connection will be emphasized as well as the need to support the family unit in treating substance use.

Corequisites: None
Prerequisites: None

HUS 250 CHEMICAL DEPENDENCY COUNSELING (3 CREDITS)

Description: This course builds on concepts of addiction and chemical dependency in contemporary society. Students will learn screening, assessment and diagnose of substance use disorders and other common comorbidities. Students will learn the role of the substance use counselor as part of a comprehensive treatment team as well as common treatment techniques including theories, skills, and medication assisted treatment.

Corequisites: None
Prerequisites: None

HUS 255 DIVERSE CARE IN HUMAN SERVICES (3 CREDITS)

Description: This course explores the concept of diversity, cultural competence as an ethical responsibility. Students will explore various cultures and cultural considerations in human services, including the importance of cultural humility in providing services to individuals, families, and communities. Students will consider prejudice, discrimination, equity, and privilege while increasing knowledge, building skills, and understanding that cultural competence is a lifelong responsibility rather than an end point in professional practice.

Corequisites: None

Prerequisites: None

HVAC Course Descriptions

The following is a list of the course descriptions for all HVAC courses currently offered at the college.

HVAC 100 HEATING TECHNOLOGY I (10 CREDITS)

Description: This course offers instruction in basic theory, safety procedures, fitting and pipe identification, types of heating systems, basic electricity, installation of tanks and piping, sheet metal fabrication, chimney flues, draft controls, and residential domestic oil burner installation and controls.

Corequisites: None
Prerequisites: None

HVAC 105 ELECTRICITY IN HVAC INDUSTRY (3 CREDITS)

Description: This course introduces students to the concepts of electricity in the HVAC industry. Topics include safety, current flow, resistance, National Electric Code, and reading schematic diagrams. Emphasis will be placed on installing and troubleshooting electrical control circuitry for modern oil heat systems.

Corequisites: None
Prerequisites: None

HVAC 110 HEATING TECHNOLOGY II (9 CREDITS)

Description: This course offers instruction in the heat loss calculation and heating system designs and layouts. It also includes electrical testing, heating codes, service and maintenance problems, multiple zone systems and controls, and LP gas utilization.

Corequisites: None
Prerequisites: HVC 100 passed with a C or better

HVAC 120 REFRIGERATION AND AIR CONDITIONING TECHNOLOGY I (10 CREDITS)

Description: This course is designed to provide an introduction into modern refrigeration and air conditioning. Students will focus on learning and understanding the basic refrigeration cycle, EPA guidelines and requirements, safety, how to perform basic steps in troubleshooting, how to properly handle and account for refrigerants, tools and equipment, as well as reading refrigerant

gauges on different appliances. They will also understand how basic refrigeration electrical control's function/operate and how these controls apply to the different appliances. The curriculum is designed to provide a foundation to students in understanding the fundamentals of refrigeration and air conditioning and an introduction to EPA guidelines and safety.

Corequisites: None
Prerequisites: None

HVAC 130 REFRIGERATION AND AIR CONDITIONING TECHNOLOGY II (9 CREDITS)

Description: This course is a comprehensive 9-credit course designed to equip students with the knowledge and practical skills necessary to excel in the HVAC industry. This course takes the fundamentals from Refrigeration and Air Conditioning I and focuses on the hands-on application of techniques and practices. While building off the foundation of the basic refrigeration cycle, the course emphasizes the need to adhere to industry standards, safety, and proper troubleshooting techniques. Students will learn how to evacuate, vacuum down, pump down, nitrogen purge and recover refrigerants. They will also demonstrate the ability to perform proper installation and conduct maintenance on HVAC appliances as well as troubleshooting and repair procedures. The curriculum is designed to ensure that students are well-prepared to address challenges that will occur in the field and conform to the industry and EPA standards and regulations

Corequisites: None
Prerequisites: None

MAT and MATH Course Descriptions

The following is a list of the course descriptions for all MAT and MATH courses currently offered at the college.

MAT 091 ALGEBRA I (3 CREDITS)

Description: This course covers integers, fractions, decimals, ratio, proportion, and percent, and then uses these concepts to solve problems involving expressions, single variable equations, and systems of equations. Functions and graphing are also introduced.

Corequisites: None
Prerequisites: Scores on the WCCC Placement Assessment Examination are used for placement into this course. Credits earned do not apply to any credential requirements or toward graduation from any degree program.

MAT 092 INTERMEDIATE ALGEBRA (3 CREDITS)

Description: This course begins with polynomials and then moves into roots and radicals. Additional topics include factoring, rational equations, quadratics, inequalities and absolute values. Time permitting, exponential and logarithmic equations will be introduced.

Corequisites: None
Prerequisites: MAT 091 or equivalent passed with a C- or better or by satisfactory scores on the WCCC Placement Assessment Examination. Credits earned do not apply to any credential requirements toward graduation from any degree program.

MAT 106 COLLEGE MATHEMATICS FOR TECHNOLOGIES (3 CREDITS)

Description: This course reviews fractions, decimals, and percent. It covers integers, simple algebraic equations and formulas, ratio, proportion, geometric concepts, and right triangle trigonometry. This course emphasizes applied mathematics.

Corequisites: None
Prerequisites: MAT 091 passed with a C- or better or satisfactory scores on the skills assessment examination.

MAT 112 BUSINESS MATHEMATICS (3 CREDITS)

Description: This course presents the mathematics needed to understand the procedures and policies of business transactions, covering bank reconciliation, payroll, trade and cash discounts, simple and compound interest, consumer credit, present and future value, securities, and problem solving with fractions and percent.

Corequisites: None
Prerequisites: MAT 091 with a C- or better or by satisfactory scores on the WCCC skills assessment examination.

MAT 115 STATISTICS: CONCEPTS & METHODS (3 CREDITS)

Description: This course covers organizing data, random samples, graphs, histograms, and frequency distributions, averages and variations, mode, median, mean, and standard deviations, correlation, regression, elementary probability theory, binomial probability distributions, sampling distributions, estimation and hypothesis testing.

Corequisites: None
Prerequisites: MAT 091 passed with a C- or better or placement by the WCCC admissions office.

MAT 127 COLLEGE ALGEBRA (3 CREDITS)

Description: This course starts with a brief review of the fundamental concepts of algebra and then moves to equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and systems of equations and inequalities.

Corequisites: None
Prerequisites: MAT 092 or equivalent passed with a C- or better or by satisfactory scores on the WCCC skills assessment examination.

MDT and MDAS Course Descriptions

The following is a list of the course descriptions for all MDT and MDAS courses currently offered at the college.

MDT 103 INTRODUCTION TO MEDICAL ASSISTING (3 CREDITS)

Description: This course will introduce students to the field of medical assisting. Concepts of effective communication and professionalism will be emphasized. Students will also participate in competency-based keyboarding curriculum. In order to pass this course, students must demonstrate keyboarding proficiency by keying at least 35 words per minute with 3 errors or less on a five-minute timed writing. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: None

MDT 125 MEDICAL TERMINOLOGY (3 CREDITS)

Description: Students become familiar with the most commonly used medical terms that are encountered in physical exams, medical correspondence, x-ray and pathological reports. Students will learn pronunciation rules for medical terms and are introduced to the rules of punctuation, abbreviation, format, style, and grammar as they apply to medical transcription. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: None

MDT 130 MEDICAL OFFICE MANAGEMENT (3 CREDITS)

Description: This course is designed to give the student hands-on medical office experience. The student will learn records management procedures, electronic health care records, organization of a health record, triaging patients, medical inventory, basic financial practices, and the overall

day-to-day operations of a physician's office. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: COMP 140, MDT 103 and MDT 125, or instructor permission

MDT 134 MEDICAL DOCUMENTATION (3 CREDITS)

Description: This course will provide a foundation in administrative and clinical documentation in the medical office. The Electronic Health Record (EHR) will be used for clinical documentation, workflow and care coordination. Organization and storage of administrative and clinical components and meaningful use will also be introduced. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: COMP 140, MDT 103 and MDT 125, or instructor permission. This course must be passed with a B- or better.

MDT 136 CLINICAL OFFICE PROCEDURES I (3 CREDITS)

Description: Students will be introduced to the medical assistant's clinical role in the medical office. Patient coaching, patient screening, and compliance reporting will be covered. An emphasis will be placed on professional response to ethical issues and critical thinking skills. This course must be passed with a B- or better to apply to the Medical Assisting Program.

Corequisites: None
Prerequisites: MDT 125 (with a B- of better for the Medical Assisting Program).

MDT 221 INSURANCE CODING AND BILLING (3 CREDITS)

Description: Students will become familiar with ICD-10 and CPT coding, as well as the CMS-1500 forms for patient case scenarios. The importance of accurate codes will be stressed as well as the addition of modifiers, E codes, and V codes. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: MDT 125

MDT 222 PHLEBOTOMY INTERNSHIP (3 CREDITS)

Description: This internship provides practical phlebotomy experience in a clinical setting. Emphasis will be placed on specimen collection and handling. Students will be required to

complete 50 successful venipuncture and 10 capillary collections and record a minimum of 50 clinical hours.

Corequisites: MDT 230 or instructor permission
Prerequisites: MDT223 and completion of Immunization History Form and all immunizations up to date.

MDT 223 PHLEBOTOMY AND INFECTION CONTROL (3 CREDITS)

Description: This course will prepare students to collect, handle, and analyze blood specimens according to CLSI standards. Students will also learn to follow safety guidelines, OSHA regulations, and CDC precautions. The fundamentals of infection control in healthcare and sterile procedures will be included. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: MDT 125 or instructor permission

MDT 228 INTRODUCTION TO PHARMACOLOGY (3 CREDITS)

Description: This course is designed to provide the student with a broad knowledge of drugs, dosage calculations and administration of medications as it pertains to the field of medical assisting. Rights of medication administration, medication abbreviations, nutrition and dietary needs will also be covered. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: MDT 125 and MAT 106

MDT 230 PHLEBOTOMY CAPSTONE (3 CREDITS)

Description: This course will culminate procedures learned in MDT223, Phlebotomy and the practical experience from MDT222, Phlebotomy Internship. Pre-analytical factors of the sample or patient as they relate to and influence laboratory procedures will be covered and an emphasis will be placed on registration and preparation for the Phlebotomy Technician Certification Exam offered by the American Society for Clinical Pathology. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: MDT 125
Prerequisites: MDT 223

MDT 236 CLINICAL OFFICE PROCEDURES II (3 CREDITS)

Description: This course covers clinical medical assisting tasks commonly performed in an ambulatory healthcare setting. Students learn the skills and knowledge necessary to assist physicians with patient care, including vital signs, CLIA Waived tests, would care, pulmonary function tests and electrocardiography. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: MDT 136

MDT 240 MEDICAL ASSISTING CAPSTONE (3 CREDITS)

Description: This capstone course is designed to integrate learning from previous semesters. Students will utilize their knowledge and skills to recognize disease processes, medical treatment, medication interactions, signs, symptoms and outcomes of common diseases. This course will integrate current patient topics and thinking about etiology, prognosis, and clinical practice of medicine. A holistic, interdisciplinary approach to patient centered care, education, and quality will be utilized. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: MDT 125, MDT 136, MDT 228, and MDT 236, or with instructor permission.

MDT 245 CLINICAL MEDICAL COOPERATIVE PRACTICUM (3 CREDITS)

Description: This course will integrate the clinical office skills necessary for the medical office. It will allow students the opportunity to integrate knowledge and skills learned. This 165-hour externship is a hands-on learning experience at a local medical center or office. This is an unpaid externship per CAAHEP standards. Students in the Medical Assisting Program must pass this course with a B- or better.

Corequisites: None
Prerequisites: MDT 125, MDT 130, MDT 134, MDT 136, MDT 221, MDT 223, MDT 228 and MDT 236, or with instructor permission and completion of Immunization History Form and all immunizations up to date. Prior to entering this course, the student must possess current Health Care Provider CPR.

MET Course Descriptions

The following is a list of the course descriptions for all MET courses currently offered at the college.

MET 100 GENERAL SERVICE (3 CREDITS)

Description: Emphasis on preventative maintenance to include fuel systems, cooling systems, air/exhaust systems, brake systems, power train inspections and lubrication, hydraulic systems, and all lubricating oils and filters.

Corequisites: None
Prerequisites: None

MET 101 DIESEL ENGINE OVERHAUL (3 CREDITS)

Description: This course is designed to give the student knowledge of diesel engine theory and construction including engine operation, component identification and terminology. This course is the companion course to Diesel Engine Overhaul Lab (MET137).

Corequisites: None
Prerequisites: None

MET 102 INTRODUCTION TO OSHA SAFETY/FIRST AID/CPR (3 CREDITS)

Description: An introductory course designed to cover the handling of hazardous materials, respiratory safety, fire safety, and first aid. Students successfully completing this course will receive the 30-hour OSHA certification and will be Red Cross First Aid and CPR certified.

Corequisites: None
Prerequisites: None

MET 103 PRINCIPLES OF VEHICULAR ELECTRONICS I (2 CREDITS)

Description: Students will study the basic principles of electricity and electronics while strengthening and increasing knowledge of electricity and electronics for the automotive and heavy-duty technicians. The course includes the theory of vehicular electrical circuits and devices, concentrating on computer controls. Proper testing methods of circuits, components and processors will also be covered.

Corequisites: None
Prerequisites: None

MET 107 INTRODUCTION TO ENGINE OPERATION (2 CREDITS)

Description: This course is restricted to Automotive, Heavy Equipment Maintenance and Heavy Equipment Operation students in their second semester. Introduction to engine applications, basic construction, and correct operation will be discussed. Both diesel and gasoline engines will be included in the lessons.

Corequisites: None
Prerequisites: None

MET 108 PRINCIPLES OF VEHICULAR PERFORMANCE (2 CREDITS)

Description: This course utilizes the theories from MET 103 Principles of Vehicular Electronics through hands-on experience in a lab environment. Emphasis will be placed on testing and diagnosis of automotive electrical/electronic circuits and devices as they apply to vehicle performance. These tasks will be performed in accordance with ASE standards.

Corequisites: None
Prerequisites: None

MET 112 ENGINE PERFORMANCE AND DIAGNOSTICS I (1 CREDIT)

Description: This course provides students with the knowledge and skills to comprehend vehicular fuel, ignition, and computer systems' components and their effect on vehicle performance.

Corequisites: None
Prerequisites: None

MET 113 ENGINE PERFORMANCE AND DIAGNOSTICS II (2 CREDITS)

Description: As a continuation of MET112, this course expands the student's knowledge of vehicular ignition, fuel, and computer systems through testing and analyzing of components and systems in accordance with ASE guidelines. Students will prepare for ASE national certification.

Corequisites: None
Prerequisites: None

MET 114 VEHICULAR ELECTRICAL SYSTEMS I (1 CREDIT)

Description: This course provides a knowledge and understanding of automotive electrical theory and the components that make up a vehicle's electrical system.

Corequisites: None
Prerequisites: None

MET 115 VEHICULAR ELECTRICAL SYSTEMS II (2 CREDITS)

Description: A continuation of MET114, this course expands the students' knowledge of electrical fundamentals in magnetism and chemical reactions. Vehicular electrical systems will be studied while working with starting and charging systems. Vehicle wiring and components will be

tested for proper operation by checking against industry specifications. Students will explore the possibilities of circuit failures using specialized electrical test equipment while safely performing hands-on identification and diagnosis and determining needed repairs of these systems in accordance with ASE guidelines. Students will prepare for ASE national certification.

Corequisites: None
Prerequisites: None

MET 116 BRAKING SYSTEMS I (1 CREDIT)

Description: This course is an introduction to vehicular braking system hydraulics, components and safety issues for proper diagnosis and service of automotive and light truck brake systems.

Corequisites: None
Prerequisites: None

MET 117 BRAKING SYSTEMS II (2 CREDITS)

Description: A continuation of topics covered in MET116 Braking Systems I, this course focuses on diagnosis, failure analysis, service procedures, and adherence to manufacturers' specifications in accordance with ASE guidelines. Students will prepare for ASE national certification.

Corequisites: None
Prerequisites: None

MET 118 STEERING AND SUSPENSION I (1 CREDIT)

Description: This course is an introduction to the theory and operation of steering and suspension components and their effect on vehicle handling.

Corequisites: None
Prerequisites: None

MET 119 STEERING AND SUSPENSION II (2 CREDITS)

Description: A continuation of MET118 Steering Suspension I, this course will cover the diagnosis and repair of steering pumps, gears, and related chassis systems. Wheel alignment angles will be understood by performing four-wheel alignments. These tasks will be performed in accordance with ASE guidelines. Students will prepare for ASE national certification.

Corequisites: None
Prerequisites: None

MET 120 TRANSMISSION AND DRIVE TRAIN (3 CREDITS)

Description: This course consists of theory and application of the operation and repair of automotive/light truck automatic transmissions, manual transmissions, and drive train systems. Emphasis is given to preventative maintenance, system diagnosis, failure analysis, and proper service procedures. Students will prepare for ASE national certification.

Corequisites: None
Prerequisites: None

MET 121 HEATING AND AIR CONDITIONING SYSTEMS (3 CREDITS)

Description: This course is designed to provide students with knowledge and understanding of automotive heating and air conditioning systems and their impact on driver comfort and vehicle reliability, while observing environmental concerns. Students will gain the understanding needed to perform proper heating and air conditioning service while emphasis is given to system diagnosis, failure analysis, and proper service procedures, as well as the use of specialized shop tools and equipment.

Corequisites: None
Prerequisites: None

MET 122 HYDRAULICS (3 CREDITS)

Description: This course provides an overview of hydraulic theory, including hydraulic principles, terminology, component identification, and the principles of mechanical advantage inherent in hydraulic systems.

Corequisites: None
Prerequisites: None

MET 123 MAINE STATE INSPECTION (1 CREDIT)

Description: This course reviews State of Maine motor vehicle laws to prepare students to take the motor vehicle inspection license exam and how to check motor vehicles for compliance of these laws. The application and manual requests for the Maine State Inspection exam will be sent out at the beginning of the second semester by the instructor. Students are responsible for the fee to cover the application and manual costs. The Maine State Inspection License Exam will be given at the end of this course.

Corequisites: None
Prerequisites: None

METC126 PRINCIPLES OF ELECTRIC AND HYBRID VEHICLES (2 CREDITS)

Description: Students will study the basic principles of electric and hybrid vehicles and their impact on the environment, transportation industry and consumers. This course is beneficial to all levels of mechanical technicians. Including but not limited to, automotive and heavy-duty technicians. This course includes the theory of electric motors and their relationship with internal combustion engines. Safety will be a key component to this course. Proper tools, equipment and testing procedures will be discussed. There will also be a focal point throughout the course of vehicular electrical circuits and devices.

Corequisites: None
Prerequisites: None

MET 132 DIESEL ENGINE FUEL SYSTEMS (1 CREDIT)

Description: This course will make the student aware of the various manufacturers and types of fuel delivery systems used on the diesel engine. From the fuel tank through the filters to the engine, this course covers the most important principles and explains how the diesel engine uses fuel injection to produce power.

Corequisites: None
Prerequisites: None

MET 137 DIESEL ENGINE OVERHAUL LAB (4 CREDITS)

Description: In a modern well-equipped lab, students are given a hands-on opportunity to overhaul a diesel engine. Using factory service manuals and a variety of specialty tools, proper disassembly and assembly of the engine is taught. Measurement, repair and assembly of all components provide a solid technical background in diesel engines. This course is a companion course to Diesel Engine Overhaul (MET 101).

Corequisites: None
Prerequisites: None

MET 138 AUTOMOTIVE ENGINE & MOTOR OVERHAUL (3 CREDITS)

Description: A course designed to provide students with the fundamentals to successfully overhaul automotive engines and electric motors.

Corequisites: None
Prerequisites: None

MET 139 AUTOMOTIVE ENGINE & MOTOR OVERHAUL LAB (5CREDITS)

Description: A course designed to continue the information taught in MET138 which gives the student the basic principles and knowledge of working parts of an internal combustion engine and electric motors. Automotive overhaul procedures will be performed.

Corequisites: None
Prerequisites: None

MET 142 HIGH PERFORMANCE ENGINES (2 CREDIT)

Description: Designed for the performance engine enthusiast, this course concentrates on the use and installation of high-performance components. The effects of carburetion, camshaft design, and exhaust systems will be covered.

Corequisites: None
Prerequisites: None

MET 146 INTRO TO DIESEL ENGINES (1 CREDIT)

Description: A course designed to provide students with an introduction to Diesel engine components and operation.

Corequisites: None
Prerequisites: None

MET 150 INTRODUCTION TO EQUIPMENT OPERATION (2 CREDITS)

Description: This course covers equipment safety practices, equipment pre-start checks, parking and stopping equipment, and general controls/operation of different types of equipment.

Corequisites: None
Prerequisites: None

MET 151 EQUIPMENT OPERATION PROJECTS (4 CREDITS)

Description: This course covers operation of equipment to work on projects, to grade, load, haul, leveling, digging, and dozing of gravel, in job-like situations. The student will be involved in some actual construction work.

Corequisites: None
Prerequisites: None

MET 152 HEAVY DUTY BRAKES (3 CREDITS)

Description: The course emphasis is on air brake and hydraulic brake operation and function, including all components of the braking systems. CDL brake adjustment certification is included with this course.

Corequisites: None
Prerequisites: None

MET 153 STEERING AND SUSPENSION (3 CREDITS)

Description: This course covers all types of steering and suspension systems related to on- and-off road industrial equipment. The operation and function of all components of the systems are emphasized.

Corequisites: None
Prerequisites: None

MET 155 GRADE WORK (3 CREDITS)

Description: This course covers plotting and correction of irregularities of ground to a definite limit of grade and alignment. Basic grade work with math and blueprint reading pertaining to the course will be covered.

Corequisites: None
Prerequisites: None

MET 156 FORKLIFT OPERATION AND MAINTENANCE (2 CREDITS)

Description: This course covers operation and inspection of powered industrial fork trucks. Upon successful completion, the student will receive certification by the National Safety Council as a fork truck operator.

Corequisites: None
Prerequisites: None

MET 157 CRANE THEORY AND OPERATION (2 CREDITS)

Description: This course covers crane theory, safety, rigging, use of load charts, and operation of cranes.

Corequisites: None
Prerequisites: None

MET 158 HEAVY DUTY ELECTRICAL SYSTEMS (3 CREDITS)

Description: The course emphasis is on equipment electrical systems, including charging, starting, ignition, and lighting circuits. Operation, service, and maintenance of all components of these circuits are included.

Corequisites: None
Prerequisites: None

MET 159 POWER TRAINS (3 CREDITS)

Description: This course covers the operation and maintenance of components in a power train, including clutches, transmissions, differentials, and final drives. Most types of commercial and industrial equipment are included.

Corequisites: None
Prerequisites: None

MET 162 EQUIPMENT MAINTENANCE PROJECTS (4 CREDITS)

Description: Heavy Equipment Maintenance Projects replicates the usual everyday operation of a mechanic service truck in a job like setting. Students will learn to manage and maintain an onboard tool and materials inventory. As the situation arises for repairs, students will partake in real time repair activities on HEO equipment. Focus on environmental best practices will be followed and MSHA safety regulations be adhered to.

Corequisites: None
Prerequisites: None

MET 170 SMALL ENGINE REPAIR AND TUNE UP (3 CREDITS)

Description: This course will cover the operating principles of small engines, including compression, fuel, governor, and electrical, cooling and lubricating systems. Troubleshooting methods and engine selection and application will be covered. Students will prepare for the Briggs and Stratton master service technician exam.

Corequisites: None
Prerequisites: None

MET 171 POWER EQUIPMENT DRIVELINES/HYDRAULICS AND HYDROSTATICS (3 CREDITS)

Description: This course is an introduction to power equipment drivelines/hydraulics and hydrostatics. Students will develop a solid understanding of systems that propel

equipment/vehicles powered by small engines. This course focuses on diagnosis, failure analysis, service procedures, and adherence to manufacturers' specifications in accordance with Equipment & Education Training Council, Inc. (EETC) guidelines.

Corequisites: None
Prerequisites: None

MET 172 POWER EQUIPMENT ELECTRICAL SYSTEMS AND GENERATORS (3 CREDITS)

Description: This course will utilize industry training standards set forth by the Equipment & Engine Training Council, Inc. (EETC) to train students to safely diagnose and repair all types of electrical systems pertaining to Power sports and off-road small engine equipment. Students will develop skills necessary to diagnose and service portable generators.

Corequisites: None
Prerequisites: None

MET 173 MARINE AND PERSONAL WATERCRAFT REPAIR AND MAINTENANCE (3 CREDITS)

Description: This course is an introduction to Marine and Personal Watercraft, components and focuses on safely diagnosing systems, failure analysis, service procedures, and adherence to manufacturers' specifications. Outboard motors, personal watercraft/jet ski service, repair and maintenance will be the concentration of this course.

Corequisites: None
Prerequisites: None

MET 190 RECREATIONAL VEHICLES OPERATION AND MAINTENANCE (3 CREDITS)

Description: This course will cover off-road applications of; 2-3-4-wheel all-terrain vehicles; and snowmobiles. It will focus on proper application of equipment, applicable vehicle laws and regulations, environmentally conscious-off road use, and user safety under all applications. Vehicle maintenance, both prevention and emergency repair, will be emphasized.

Corequisites: None
Prerequisites: None

MET 195 OUTDOOR POWERED EQUIPMENT VEHICLE REPAIR AND MAINTENANCE (3 CREDITS)

Description: This course covers various aspects of service and repair of outdoor powered equipment and vehicles. While this class is designed as a continuation of MET190, Recreational Vehicles Operation and Maintenance, students can begin with this course pending instructor approval.

Corequisites: None
Prerequisites: None

MET 200 ADVANCED EQUIPMENT OPERATION (4 CREDITS)

Description: This course will cover septic system installation, preparing ground for foundation footings, and trenching. The use of transits is integral to the course.

Corequisites: None
Prerequisites: MET 150, MET 151 and MET 155.

MET 220 EQUIPMENT HYDRAULICS (3 CREDITS)

Description: This course covers all components of open- and closed-centered hydraulic systems. Theory, operation, maintenance, and repair of these components are emphasized.

Corequisites: None
Prerequisites: None

MET 221 HEAVY EQUIPMENT HVAC (2 CREDITS)

Description: This course is an introduction to the function and repair of heating, ventilation, and air conditioning units with concentration on mobile heavy equipment.

Corequisites: None
Prerequisites: None

MET 232 ADVANCED ENGINE OVERHAUL/MACHINE SHOP (6 CREDITS)

Description: A selected group of top achievers with a full year of "Diesel and Automotive Engine Overhaul" background are placed in a real life shop atmosphere and given the opportunity to hone their skills obtained from the previous year. The course encourages students to think and act on their own, allowing them the freedom to perform various operations with minimal supervision. A pre-class session and daily time sheets let the instructor keep up with various stages of the students' progress.

Corequisites: None
Prerequisites: None

MFG and MFGT Course Descriptions

The following is a list of the course descriptions for all MFG and MFGT courses currently offered at the college.

MFG 101 SAFETY (2 CREDITS)

Description: This course introduces students to safe operating practices and procedures in a manufacturing environment. Performance of emergency drills, performing corrective action when observing unsafe practices, new equipment safety integration, and ergonomics are discussed. Students who pass this course are prepared to take the MSSC Safety portion of the CPT industry credential.

Corequisites: None
Prerequisites: None

MFG 110 MANUFACTURING PROCESSES AND PRODUCTION (3 CREDITS)

Description: This course introduces students to overall manufacturing processes and production. Common industry topics such as customer need identification, resource and procurement, equipment production scheduling, setting production goals and team assignments are addressed. Production documentation and final product delivery concepts are introduced. Students who pass this course are prepared to take the MSSC Manufacturing Process and Production portion of the CPT industry credential.

Corequisites: None
Prerequisites: None

MFG 120 QUALITY PRACTICES AND MEASUREMENT (3 CREDITS)

Description: This course prepares students to work in a quality control and measurement sector within the manufacturing/production industry. Areas addressed are quality audit activities, calibration of data collection equipment, continuous improvement implementation, inspection, documentation, and corrective action implementation. Record keeping and use of industry standard testing and measurement equipment are also introduced. Students who pass this course are prepared to take the MSSC Quality Practices and Measurement portion of the CPT industry credential.

Corequisites: None

Prerequisites: None

MFG 125 MAINTENANCE AWARENESS (3 CREDITS)

Description: This course introduces students to the concepts of preventative maintenance, routine scheduled repair, monitoring of equipment for correct performance, and production scheduling around maintenance activities. Students who pass this course are prepared to take the MSSC Maintenance Awareness portion of the CPT industry credential.

Corequisites: None
Prerequisites: None

MFG 210 GREEN PRODUCTION (3 CREDITS)

Description: This course trains students on environmental issues in manufacturing. Topics introduced are the issues associated with becoming green, implementation of environmental programs, environmental incident identification, reporting, and recovery, and recycling implementation for production facilities. Students who pass this course are prepared to take the MSSC Green Production portion of the CPT industry credential.

Corequisites: None
Prerequisites: MFG 110 or with instructor permission

NEC Course Descriptions

The following is a list of the course descriptions for all NEC courses currently offered at the college.

NEC 111 NATIONAL ELECTRICAL CODE (3 CREDITS)

Description: This 45-hour course covers all nine chapters of the national electrical codebook. Students develop a thorough understanding of the code requirements and applications, as well as proficiency in researching various code rules. Must be passed with a C or better.

Corequisites: None
Prerequisites: Electrical Helper's License or higher, C or better in REY 103, or instructor permission.

NGP and PRNG Course Descriptions

The following is a list of the course descriptions for all NGP and PRNG courses currently offered at the college.

NGP 110 BASIC PRINCIPLES AND PRACTICES FOR PROPANE/NATURAL GAS (1 CREDIT)

Description: This course is a prerequisite to the more advanced classes and includes sections covering the physical properties and combustion characteristics of propane, identifying propane industry standards, safety codes and regulations, identifying the basic parts of tanks, cylinders, and bulk storage installations, maintaining a safe working environment, identifying commonly used hand tools and supplies, and serving the customers. State certification testing is included. This is a pass/fail course.

Corequisites: None
Prerequisites: None

NGP 116 DISTRIBUTION SYSTEMS OPERATIONS (2 CREDITS)

Description: This course focuses primarily on the procedure of placing a vapor distribution system into operation. The course also addresses the different system test required for vapor distribution systems and appliances, validating the container, piping, and regulator, how and when to make the final connections, how to purge the system of air, appliance controls and safety devices, and how to adjust air. This is a pass/fail course.

Corequisites: None
Prerequisites: None

NGP 118 APPLIANCE INSTALLATION (2 CREDITS)

Description: The course includes placing propane utilization equipment into service, identifying the fundamental principles of venting and ventilation, pressure testing and leak checking propane-piping systems, controlling propane/air mixtures for proper combustion, and sizing /installing natural draft venting systems. This is a pass/fail course.

Corequisites: None
Prerequisites: None

NGP 120 APPLIANCE SERVICE (2 CREDITS)

Description: Appliance service covers identifying troubleshooting skills and electrical circuits/systems, measuring electrical quantities, identifying operating characteristics and components of common sensing devices, and troubleshooting control devices basic to gas operating equipment. This is a pass/fail course.

Corequisites: None
Prerequisites: None

NURS Course Descriptions

The following is a list of the course descriptions for all NURS courses currently offered at the college.

NURS 103 FOUNDATIONS OF NURSING (8 CREDITS)

Description: Introduces the role of the nurse as a member of the healthcare team. Focuses on the nursing process, basic human needs, communication, safety, health promotion, and foundational nursing skills. Principles of pharmacology, nutrition, culture, and teaching-learning are integrated. Students apply theory in the laboratory, simulation, and beginning clinical settings to build clinical judgment and safe practice.

Corequisites: None
Prerequisites: Acceptance to the Nursing Program

NURS 110 PHARMACOLOGY (3 CREDITS)

Description: Introduces the principles of pharmacology essential to safe nursing practice. Students examine drug classifications, pharmacokinetics, pharmacodynamics, and dosage calculation, integrating safety, patient education, and evidence-based medication administration across the lifespan. Emphasis is placed on clinical reasoning, therapeutic communication, and prevention of medication errors through simulation and ATI interactive modules.

Corequisites: None
Prerequisites: None

NURS 137 NURSING ACROSS THE LIFESPAN I (8 CREDITS)

Description: This course builds upon foundational nursing knowledge and introduces concepts of psychiatric-mental health nursing integrated with selected medical-surgical systems. Students will focus on therapeutic communication, psychopharmacology, crisis intervention, and the nursing care of individuals and families experiencing mental health disorders alongside acute and chronic medical conditions. Emphasis is placed on safety, evidence-based practice, and the nursing process in both psychiatric and medical-surgical contexts. Learning occurs through classroom, laboratory, simulation, and clinical experiences.

Corequisites: None
Prerequisites: NURS 103

NURS 254 NURSING ACROSS THE LIFESPAN II (8 CREDITS)

Description: Focuses on nursing care of clients with intermediate to complex health needs across adult, maternal–newborn, and pediatric populations. Emphasizes clinical judgment, prioritization, and collaboration in acute and community settings. Students integrate pharmacologic and pathophysiologic knowledge to deliver safe, evidence-based care and develop leadership and teaching skills within the interprofessional team.

Corequisites: None
Prerequisites: NURS 137

NURS 280 NURSING ACROSS THE LIFESPAN III (10 CREDITS)

Description: Builds on previous theoretical and clinical learning experiences while increasing the student's knowledge and responsibility in the care of clients with multiple and complex health issues, including the nurse's role and responsibility in emergency and disaster situations. End-of-life care and chronic disease management are included. This course includes didactic and case study classroom work. Clinical experiences include supervised advanced clinical medical/surgical skills, partnership experience, and practice of management skills in healthcare facilities. After this course, students can provide and manage comprehensive care in a variety of clinical settings.

Corequisites: None
Prerequisites: NURS 254

NURS 282 TRANSITION INTO NURSING PRACTICE (1 CREDITS)

Description: This course expands on the practice framework already learned in previous courses. The students learn the steps of the Clinical Judgement Model and how it directly relates to the nursing assessment process (ADPIE). Topics such as legal issues, role of the Maine State Board of Nursing, NCLEX preparation, Professional Nursing organizations, nursing research, clinical reasoning skills, safety, electronic medical record (EMR) charting software, and strategies on how to successfully transition to the work world are covered.

Corequisites: NURS280
Prerequisites: NURS 254

NUTR Course Descriptions

The following is a list of the course descriptions for all NUTR courses currently offered at the college.

NUTR 110 NUTRITION SCIENCE (4 CREDITS)

Description: This course introduces the scientific principles of human nutrition, bridging the gap between theory and practice. Students will study the structure and function of essential nutrients (carbohydrates, fats, proteins, vitamins, and minerals) and explore the physiological processes of digestion, absorption, and metabolism. Life cycle nutrition, current dietary guidelines, and community nutrition programs are also examined. The accompanying laboratory sessions provide practical experience through activities such as dietary analysis, nutrient calculations, and hands-on investigations.

Corequisites: None
Prerequisites: None

PFT and PHFS Course Descriptions

The following is a list of the course descriptions for all PFT and PHFS courses currently offered at the college.

PFT 100 PHYSICALLY FIT FOR DUTY (WORK) (1 CREDITS)

Description: Physically Fit for Duty (work) provides the understanding of wellness and physically fitness to a standard that prepares the student to work safely in the career path they choose. This course is designed specifically for Emergency Services Personnel, Law Enforcement, Outdoor Recreational Leaders and any job that the duties may require any level of physical fitness and wellbeing. This course will cover nutrition, weight control, stress management, development of positive lifestyle behaviors. Each student will learn how to assess what level of fitness they are currently at and how to set and obtain reachable goals. This course will use the assessment and testing criteria set forth by the Main Criminal Justice Academy.

Corequisites: None
Prerequisites: None

PHI and PHIL Course Descriptions

The following is a list of the course descriptions for all PHI and PHIL courses currently offered at the college.

PHI 101 INTRODUCTION TO PHILOSOPHY (3 CREDITS)

Description: This course is a study of the perennial problems of philosophy as discussed by authors of all periods, from the Pre-Socratic Greeks to contemporary writers. This survey focuses primarily on western philosophy, but also introduces eastern thought. Such issues as free

will vs. determinism, the problem of evil, the mind-body split, the nature of time, the limits of science and mysticism are among topics offered.

Corequisites: None
Prerequisites: None

PHI 114 ENVIRONMENTAL ETHICS (3 CREDITS)

Description: This course will introduce students to the study of environmental ethics. Students will explore Western and Non-Western perspectives concerning the environment, deep ecology, social ecology, animal rights, biodiversity, ecofeminism, species preservation, economics and the environment, global justice, as well as sustainable society issues.

Corequisites: None
Prerequisites: None

PHI 115 ETHICS (3 CREDITS)

Description: Ethics is the study of that which is of fundamental interest to every human. This course provides the student with the study of ancient and contemporary issues involving actions freely performed that significantly harm or benefit humankind and the reasoned methods of judging such behavior.

Corequisites: None
Prerequisites: None

PHI 116 CRIMINAL JUSTICE ETHICS (3 CREDITS)

Description: This course examines current issues of ethics in criminal justice. The major focus is to develop a general understanding of ethics; decision making, actions, and thought processes, within the criminal justice system. This course will include law enforcement scenarios and allow students to make their own decisions and justify them while staying within the boundaries of the law and professional code of ethics.

Corequisites: None
Prerequisites: None

PHY and PHYS Course Descriptions

The following is a list of the course descriptions for all PHY and PHYS courses currently offered at the college.

PHY 120 PHYSICS (4 CREDITS)

Description: The first of a two-semester sequence, this course stresses the qualitative and quantitative aspects of vector analysis, kinematics, dynamics, energy concepts, and includes an introduction to thermodynamics. Particular topics include projectile motion, circular motion, simple machines, thermal properties of matter, and heat transfer.

Corequisites: None
Prerequisites: None

PSC and POLS Course Descriptions

The following is a list of the course descriptions for all PSC and POLS courses currently offered at the college.

PSC 101 AMERICAN NATIONAL GOVERNMENT (3 CREDITS)

Description: This course is an introductory study of the major principles, structures and practices of the United States government. The course will focus on topics such as the Constitution and its development, the federal system, civil liberties and civil rights, public opinion and interest groups, the Congress, the Supreme Court, the Presidency, domestic and foreign policy formation, the federal budget and federal taxation.

Corequisites: None
Prerequisites: None

PSY and PSYC Course Descriptions

The following is a list of the course descriptions for all PSY and PSYC courses currently offered at the college.

PSY 101 INTRODUCTION TO PSYCHOLOGY (3 CREDITS)

Description: This course is an introduction in the discipline of psychology. The student will be able to define and describe the science of psychology and demonstrate knowledge of theoretical issues, psychological processes, and mechanisms of behavior.

Corequisites: None
Prerequisites: None

PSY 105 HUMAN RELATIONS (3 CREDITS)

Description: Human Relations introduces students to the principles of psychology applied to the understanding of self and others. Students will study the interactions that exist between people

at work, in organizations and in one's personal life. The student will be provided with a clear, insightful, and comprehensive understanding to the principles and underlying psychological dynamics of interpersonal relations and have the opportunity to practice these skills.

Corequisites: None
Prerequisites: None

PSY 190 CHILD AND ADOLESCENT DEVELOPMENT (3 CREDITS)

Description: This course explores the growth and development of the child from conception through adolescence. (A study of birth, pre-natal, and neo-natal development will be included.) Investigations of the physical, intellectual, social, and emotional domains are sued to understand and describe the developing person. Students will understand the theories, research, and multiple variables that affect the growth and development of children and adolescents.

Corequisites: None
Prerequisites: None

PSY 207 DEVELOPMENTAL PSYCHOLOGY (3 CREDITS)

Description: The development of the individual is an exciting process, beginning at birth and continuing through the intricate changes of growth and aging. The study of the life span is also intriguing because each of us, and everyone we care about, is constantly developing. This course therefore includes the biosocial, cognitive and psychosocial domains of human development.

Corequisites: None
Prerequisites: PSY 101

PSY 225 ADULT DEVELOPMENT FROM YOUNG ADULTHOOD TO DEATH (3 CREDITS)

Description: This is the continuation of the study of development of the person throughout adulthood in the physical, social, emotional, moral, and cognitive domains. It is concerned with growth and development over time and with changes during the life span. Topics to be explored will be sex roles, sexuality, work and leisure, marriage and alternate lifestyles (singlehood, same sex marriages), parenting, aging, retirement, relinquishing roles of the elderly, role integration and death and dying.

Corequisites: None
Prerequisites: None

PSY 252 CRIMINAL PSYCHOLOGY (3 CREDITS)

Description: This course is designed to provide an understanding of criminal behavior and antisocial behavior from a psychological perspective. Contemporary research, theory, and practice concerning the psychology of crime will be explored. Students will learn about the factors associated with the onset and maintenance of antisocial and criminal behavior. Because some criminal behavior begins early, antisocial conduct in juveniles is covered in detail, although the great majority of juveniles who offend also stop before reaching adulthood. Information about juveniles will include not only the type and extent of their offending, but also current research on the developing brain during adolescence. Many youths today also are victims of crime or deprived of educational and economic opportunities that place them at risk of future offending.

Corequisites: None
Prerequisites: None

REY and ELEC Course Descriptions

The following is a list of the course descriptions for all REY and ELEC courses currently offered at the college.

REY 103 INTRODUCTION TO RESIDENTIAL ELECTRICITY (3 CREDITS)

Description: This course is an introduction to the residential electrical trades. It covers basic electrical theory, safety, tools and material used specifically in the electrical trades. It also introduces the student to the National Electrical Code as well as gives them some hands on training in conductor terminations and residential wiring techniques.

Corequisites: None
Prerequisites: None

REY 131 RESIDENTIAL & COMMERCIAL ELECTRICAL TECHNOLOGY I (2 CREDITS)

Description: This course is an introduction to the electrical trade. It covers basic electrical theory, safety, tools, and material used specifically in the electrical trade. It also introduces the student to the national electrical code as well as gives them some hands on training in conductor terminations.

Corequisites: None
Prerequisites: None

REY 152 RESIDENTIAL & COMMERCIAL ELECTRICAL TECHNOLOGY II (8 CREDITS)

Description: Topics include residential building plans, branch & feeder circuits, services, rough-in wiring, switching circuits, devising and fixture installation.

Corequisites: None
Prerequisites: REY 131 passed with a C- or better or with instructor permission

REY 181 RESIDENTIAL & COMMERCIAL ELECTRICAL TECHNOLOGY III (9 CREDITS)

Description: Topics include trouble shooting, phone and data wiring, green wiring techniques, commercial blueprint reading, commercial services, commercial wiring methods and motors & controls.

Corequisites: None
Prerequisites: REY 152 passed with a C- or better

REY 184 RESIDENTIAL & COMMERCIAL ELECTRICITY IV (4 CREDITS)

Description: Topics include commercial lighting low voltage wiring, h. v. a. c. wiring, over current protection, special wiring situations and journeyman exam preparations.

Corequisites: None
Prerequisites: REY181 passed with a C- or better

REY 190 RESIDENTIAL & COMMERCIAL ELECTRICITY INTERNSHIP (3 CREDITS)

Description: The practicum provides students with a supervised field experience. Students will gain hands-on experience in the electrical contracting field. This opportunity increases students' occupational awareness and professionalism. This is a pass/fail course.

Corequisites: None
Prerequisites: None

SED and EDSE Course Descriptions

The following is a list of the course descriptions for all SED and EDSE courses currently offered at the college.

SED 220 EDUCATION OF YOUNG CHILDREN WITH SPECIAL NEEDS (3 CREDITS)

Description: This course is designed to introduce students to the field of special education and to train students to identify special needs, to refer children, and to care and teach children with special needs in an inclusive setting. Students will learn causes, characteristics, and appropriate intervention and interaction strategies for children with special needs.

Corequisites: None
Prerequisites: None

SED 235 BEHAVIOR MANAGEMENT TECHNIQUES (3 CREDITS)

Description: This course is designed to provide knowledge and skills necessary to support students with emotional and behavioral difficulties. The emphasis of the course will be on the use of data collection to better understand how to intervene and change negative behaviors. Course content will emphasize both formal and informal data gathering techniques. Crisis management techniques and the development of behavior management plans will be covered. Students completing requirements will earn a Behavioral Health Professional (BHP) certificate.

Corequisites: None
Prerequisites: None

SED 282 TEACHING THE EXCEPTIONAL CHILD IN THE REGULAR CLASSROOM (3 CREDITS)

Description: The purpose of this course is to provide an understanding of the characteristics and needs of K-12 students with exceptionalities. The student will explore the history of special education, specific categories of exceptionalities, the provisions of IDEA, definitions, causes, prevalence, and educational implications, and relevant legal issues in special education. The student will become familiar with program planning and placement, with an emphasis on inclusive practices; transitioning students to adulthood; classroom accommodations and modifications; and instruction of students with exceptionalities. The student will comprehend current federal and state special education regulations as they relate to the general educator, the special education referral process, and appropriate accommodations and modifications for students with disabilities that are best practice in the regular education classroom. The student will discover inclusion successes and challenges of early childhood, elementary, and secondary education. The student will analyze the roles of both parents and paraprofessionals within the inclusive model. Factors that put students at risk, cultural and linguistic diversity, and giftedness are also explored.

Corequisites: None
Prerequisites: None

SOC and SOCI Course Descriptions

The following is a list of the course descriptions for all SOC and SOCI courses currently offered at the college.

SOC 101 INTRODUCTION TO SOCIOLOGY (3 CREDITS)

Description: This course is a general study of people in society, with emphasis on the nature of culture, social institutions, social interaction and social units and their influence on the individual. An overview of sociological concepts and perspectives is also presented.

Corequisites: None
Prerequisites: None

SOC 102 SOCIOLOGY OF THE FAMILY (3 CREDITS)

Description: This course is an introduction to sociology, with an emphasis on family systems. Foundational sociological theory will be covered as a basis for an in-depth study of modern family structures. This course will explore the contemporary issues of power relationships; family organization and reorganization; single parent families; divorce, family violence, malfunction; and the effect of the family on the socialization of children.

Corequisites: None
Prerequisites: None

SPA and SPAN Course Descriptions

The following is a list of the course descriptions for all SPA and SPAN courses currently offered at the college.

SPA 101 INTRODUCTION TO SPANISH (3 CREDITS)

Description: Introduction to Spanish is a beginner's course that emphasizes the skills needed for everyday communications in communities or places of employment. In this course, students will learn language function, vocabulary and grammar. Not only will students develop a proficiency in and appreciation for the Spanish language, but also an understanding of Hispanic cultures and their growing importance in our world.

Corequisites: None
Prerequisites: None

SPA 103 INTRODUCTION TO SPANISH II (3 CREDITS)

Description: Introduction to Spanish II is the second part of a course that emphasizes the skills needed for everyday communications in communities or places of employment. In this course, students will learn language function, vocabulary and grammar. Not only will students develop a proficiency in and appreciation for the Spanish language, but also an understanding of Hispanic cultures and their growing importance in the world.

Corequisites: None
Prerequisites: None

TEC and TECH Course Descriptions

The following is a list of the course descriptions for all TEC and TECH courses currently offered at the college.

TEC 150 ELECTRONIC PRINCIPLES I (3 CREDITS)

Description: This course provides the fundamentals of Electrical and Electronic circuits. Direct current and alternating current include series, parallel and combination circuits. Measuring instruments and soldering techniques are presented. A required digital multimeter kit is soldered and assembled. All components are covered including resistors, inductors and capacitors. Electrical formulas and trigonometry are included as part of this course.

Corequisites: None
Prerequisites: None

TEC 151 ELECTRONIC PRINCIPLES II (3 CREDITS)

Description: This course covers electrical controls, motor starters, semiconductors, DC power supplies, motor drives and programmable logic controllers. Mechanical and electronic semiconductor input control devices are included. Output control devices such as solenoids, solenoid valves, magnetic motor starters and pneumatic actuators are included. A DC power supply kit is soldered, assembled and checked with an oscilloscope to measure ripple voltage. The programmable controller project combines programming inputs and outputs with ladder logic control.

Corequisites: None
Prerequisites: TEC 150 passed with a C or better

TTO and TTOC Course Descriptions

The following is a list of the course descriptions for all TTO and TTOC courses currently offered at the college.

TTO 199 TRADE AND TECHNICAL OCCUPATIONS (VARIABLE CREDIT, MAXIMUM 24 CREDITS)

Description: Prior Learning-Apprenticeship. Recognition of appropriate and significant prior learning and its credit relationship to degree requirements is granted. Knowledge and skills (not chronological experience) acquired prior to enrollment are systematically identified and documented in a portfolio, which is assessed by the college, and credit is awarded.

Corequisites: None
Prerequisites: Minimum of three years in a registered or college-approved apprenticeship, ENG 101, and portfolio development instruction.

WEL and WELD Course Descriptions

The following is a list of the course descriptions for all WEL and WELD courses currently offered at the college.

WEL 109 INTRODUCTORY WELDING (2 CREDITS)

Description: This course teaches basic arc welding, light MIG welding, and torch work.

Corequisites: None
Prerequisites: None

WEL 120 SAFETY AND BASIC WELDING TECHNOLOGY I (7 CREDITS)

Description: Shielded metal arc welding with emphasis on safety in the workplace. This course will

introduce students to proper safety practices, habits, and attitudes in shop areas. It will focus on using machines and equipment, electrode identification, and oxygen and acetylene cutting and welding in all positions using 11018 electrode.

Corequisites: None
Prerequisites: None

WEL 121 BASIC WELDING TECHNOLOGY II (4.5 CREDITS)

Description: Unit of instruction focuses on safety and arc position welding in preparation of 3/8's plate for AWS Certification. This includes the fitup, the tacking together, the welding procedure, and the bend process and preparation. Students will learn to apply the process bested situated for each type of job.

Corequisites: None
Prerequisites: None

WEL 122 ADVANCED WELDING TECHNOLOGY (1.5 CREDITS)

Description: All structural welding tests using 7018 stick and MIG.045-flux core will be covered, as well as structural welding on ¼" and 3/8" thick plate using a back plate with 7018 and 6011 electrodes. Students must pass a guided bend test in the vertical and overhead positions.

Corequisites: None
Prerequisites: None

WEL 123 PIPE WELDING (4 CREDITS)

Description: This is an introductory course in carbon steel pipe welding, where students practice pipe fit ups, tacking techniques and welding procedures in the root pass with 6011 electrodes. The 7018 electrode will be used for fillers and cover passes. This is an advanced course in carbon pipe welding. The entire course will be with a heavy emphasis on the 6G positions. Preparation time for certifying exam may be provided.

Corequisites: None
Prerequisites: None

WEL 124 TIG WELDING (5 CREDITS)

Description: This course is an introductory to TIG pipe welding, and all Schedule pipes. All welding will be done in the 6G position. Students will perform pipe fitups, tacking techniques and TIG welding in the root and hot pass. This is also an introductory TIG welding course on schedule 10 stainless steel pipe; which includes fitup, tacking, and making quality stainless welds using solar flux and an argon purge in the open root passes. This is courses includes an advanced TIG welding module, welding double extra heavy boiler tube and 5" schedule 80 pipe with TIG root and hot pass filler and capped with 7018.

Corequisites: None
Prerequisites: None

WEL 125 INTRODUCTION TO PIPE WELDING (1 CREDIT)

Description: This course introduces students to pipe fitting using a pipe threading machine, using pipe fittings, and measurements to perform accurate fitups on all task requirements. Upon competition students will be able to accurately measure and thread pipes.

Corequisites: None
Prerequisites: None