

**Great Plains Technology Center
Lawton Campus
Career Major Descriptions
2010-2011**

Architecture & Construction (AC)

CAD Basic Drafter (525 HS) – Todd Wallace

This career major will introduce students to basic drafting skills and equipment.

Lead Carpenter (1815 AD) – Mike Ferguson

This career major will provide a “hands-on” experience in the management aspects of the Carpentry Trades and delineate the role of a project leader or lead carpenter in planning and managing a construction site during the layout through framing phases of a residential home. Requirements include work scheduling, the preparation and solicitation of material lists to building suppliers, selection for building supplies, and scheduling for delivery and availability of materials. Students will also provide remedial instruction/assistance to first-year students experiencing difficulty with learning objectives outlined in the Frame Carpenter Major. This course will include rotational and team leader assignments within the student-built house project.

Residential Carpentry (1050 AD; 1050 HS) – Mike Ferguson

This career major will explore blueprint and plan reading and delineate the role of building design, building site planning, and site preparation as it relates to the actual construction of a house. In addition, the student will gain a working knowledge of selected hand and power tools as they relate to construction oriented projects. This will include use of all applicable tools and materials required in the construction of a house. All aspects of job site and workplace safety related to residential construction will be examined through lecture, video, and hands-on practicum.

Maintenance/Repair Carpenter (525 HS) – Mike Ferguson

This career major will introduce students to safe practices, tools and equipment used in the repair of carpentry on a job site. These skills will prepare students for entering the carpentry trade as a maintenance/repair carpenter. Students will be able to install windows, doors, and trim; students will also be able to repair and replace walls and hang sheet rock.

Electrical Assistant – Entry Level (570 HS) – Mike Klein

This career major will prepare the student to enter the electrical occupation as an electrical parts handler, assistant, or laborer. An Electrical Assistant - Entry Level will have had electrical safety, blueprint reading, hand and power tool safety, electrical theory, materials identification, and has been introduced to the National Electric Code.

Residential Electrician’s Assistant (1050 AD; 1050 HS) – Mike Klein

This career major is a foundational study in the design, in the selection of equipment and in the methods used in the installation of electrical systems in residential buildings. This comprehensive training combines classroom theory and hands-on learning in tools, equipment, electrical safety, blueprint reading and specifications, series circuits, parallel

circuits and the basics of residential electrical wiring. This career major prepares students to sit for the Oklahoma Journeyman Electrician test.

Unlimited Electrician's Assistant (1815 AD) – Mike Klein

This major prepares students as electrician's assistants who assist in installing, diagnosing and repairing electrical systems for residential, commercial and industrial applications. Students are trained in safety practices, hand and power tools/equipment use and application and electrical theory along with AC/DC circuitry, and wiring applications. Included are motors, motor control circuits, and power distribution systems as well as industrial controls and electromechanical devices, the National Electrical Code, and security and alarm systems. Hours completed in this major can be counted toward the 8,000 hours (four years) of work experience required for the journeyman electrician license.

Residential HVAC Installer (525 HS) – Jimmy Wiersema

This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry.

Residential/Commercial HVAC Technician (1815AD) – Jimmy Wiersema

The Commercial HVAC Technician career major provides a balance of theory and application in keeping with the philosophy of Great Plains Technology Center. This includes a solid foundation of the principles of heating, ventilation, air conditioning and refrigeration combined with extensive laboratory experience.

Students will learn to test, to systematically troubleshoot, to repair and to maintain electrical and mechanical HVAC systems and components. Students will also receive training in designing, building and installing sheet metal duct work systems.

Residential HVAC Technician (1050 AD; 1050 HS) – Jimmy Wiersema

This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry, personal safety and work practices, and personal protective equipment. Students will be instructed in the proper handling of pressurized fluids, handling hazardous substances, hand and power tools, and equipment used to test and service air conditioning.

Arts, A/V Technology & Communications (AT)

Printing Design Technician (1050 AD; 1050 HS) – Bunnie Craddock

This career major introduces students to the arts, A/V technology and communication field through the use of graphic design, illustration and production using a variety of industry mediums. Students will receive a working knowledge of the basic skills and techniques used in the graphic arts and printing industry. Printing Design Technicians work closely with designers to provide skilled document design support by demonstrating the ability and understanding of page layout, text formatting and design best practices. Instruction in this career major will include the fundamentals of layout and design, paste up, composition, proofreading, stripping, press operation, process camera, plate making, desktop publishing, binding, copy machine operation, reproduction, and graphic arts photography.

Digital Photographer (510 HS) – Bonnie Craddock

Students will gain advanced digital photography skills in this career major. Students will create digital images, promotional projects and learn photojournalism techniques. Upon successful completion of this major, a student will be eligible to sit for the state competency exam and work as a digital photographer.

Business, Management and Administration (BA)

Administrative Assistant (600 HS) – Sherrie Bellamy

This major prepares students for careers in administrative support and office management. Students gain high-level technology and managerial skills needed for success in competitive business careers. Office procedures, telephone etiquette and the integration of computer software packages are also covered in this major. Students gain skills required for the Certipoint IC3 and Microsoft Office Specialist certifications.

Medical Insurance Coder (1050 AD; 1050 HS) – Sherrie Bellamy

This career major is designed to train students to become proficient in medical office procedures, medical terminology, and general office administration as related to the business operations of medical facilities. This career major covers several areas of instruction which will include computer applications, Internet navigation, basic office skills, medical terminology, patient billing, medical insurance, and ICD9-CPT coding. Students will participate in an internship during the fourth quarter where they will have exposure to the actual workplace. Areas of employment include local physician offices, hospitals, dental clinics, veterinary clinics, or any type of business office. Job placement is currently 95% largely due to the opportunities that arise from the internships.

Medical Transcriptionist (1050 AD; 1050 HS) - Sherrie Bellamy

In this career major, students learn the necessary skills for entry-level employment in physicians' offices, clinics, home health care offices, hospitals, insurance companies and medical records departments. A Medical Transcriptionist interprets and transcribes dictation by physicians and other healthcare professionals regarding patient assessment, work-up, therapeutic procedures, clinical course, diagnosis, prognosis, etc., in order to document patient care and to facilitate delivery of healthcare services. The student will become proficient in transcribing medical reports using correct spelling and definitions of medical terms and using terms correctly in a medical context. Students will also become familiar with medical laws and ethics.

Office Information Specialist (1050 AD; 1050 HS) - Sherrie Bellamy

In this major students gain the technical and managerial skills needed for success in competitive business careers. They learn to integrate multiple software applications used in office settings. In addition, students acquire graphic web and digital communications skills. Students learn a variety of software packages used in desktop publishing and web design and develop the fundamental skills needed to create, revise, optimize and export graphics. Students gain skills required for numerous industry-related certifications including Adobe and Certified Internet Webmaster (CIW) credentials.

Customer Service (600 HS) - Sherrie Bellamy

This major prepares students for careers in customer service. Customer service representatives are employed by a wide range of businesses to serve as a direct point of

contact with customers. They interact with customers in person, by phone or other electronic means to answer questions about products or services or to handle and resolve complaints. In this major, students gain both the technical and interpersonal skills needed to effectively serve customers.

Education and Training (ET)

Pre-Education (600 AD; 600 HS) – Judy Holland

The Pre-Education major focuses on the various careers within the educational system. This career major emphasizes career skills to become a successful teacher/educator. Students will become familiar with the current issues within the classroom such as communication, technology, teaching methods, problem-solving skills and management of the learning environment. Students will have the opportunity to gain teaching experience through field experience.

Finance (FN)

Financial Clerk (525 HS) – Sherrie Bellamy

This career major prepares students for entry-level work in the accounting field. Students learn the fundamental concepts, principles and ideas needed to understand how businesses operate. They also gain basic office and computer skills including word processing, and spreadsheet software along with a strong foundation in accounting principles and techniques.

Payroll Accounting Clerk (1050 AD; 1050 HS) - Sherrie Bellamy

This career major provides students with the necessary skills to prepare, process, and maintain a company's payroll. Students learn basic office and computer skills including word processing, spreadsheet, database and presentation software. Beginning, advanced, payroll and computerized accounting principles are covered. Students gain skills required for the American Payroll Association's Fundamental Payroll Certification (FPC) exam.

Health Science (HS)

Advanced Respiratory Therapist (1945 AD) – John Edgar and Wendy Thode

This career major is designed to prepare students for employment as a Respiratory Therapist. Respiratory Therapists work in a wide variety of clinical settings to evaluate, treat, and manage patients of all ages with respiratory illnesses and other cardiopulmonary disorders.

This major is part of an advance standing agreement with Cameron University. Cameron University will offer general education, technical support, and related programs (33 credit hours) and Great Plains Technology Center will provide specialty programs in respiratory care (32 credit hours). Upon successful completion of both components the student will be awarded an Associate Degree in Respiratory Care by Cameron University. Successful degree candidates will be eligible to sit for the National Board for Respiratory Care exam to become a Certified Respiratory Therapist and a Registered Respiratory Therapist.

Chiropractic Assistant (555 HS) – Casey Fife

This career major is an introduction to the health care field and chiropractic profession. Topics of instruction will include Medical Terminology, First Aid, CPR, Anatomy and Physiology; billing and coding, history, philosophy, and vocabulary of the chiropractic profession; and an understanding of ethical issues as it relates to insurance, collections, and chiropractic office management. Students will also have hands on experience in a chiropractic office setting.

Electrocardiograph Technician (525 HS) – Tammy Rodriguez

This EKG Technician major prepares the student to perform routine electrocardiograms. These readings assist the physician to diagnose irregularities or changes in the patient's heart. These courses will train students to recognize normal and abnormal rhythms, document rhythm strips to provide reliable test results for the physician's interpretation, and operate the electrocardiograph machine. EKG Technicians may be employed in hospitals, emergency care clinics or physicians offices. They may also function as entry level monitor technicians.

Home Health Care Nursing Aide (16 HS) – Tammy Rodriguez

Nursing assistants make valuable contributions in providing health care. Nursing assistants are trained to care for people who are ill or need help in caring for themselves. The care given is always under the guidance and supervision of licensed health care providers such as nurses or physicians. The competencies needed to successfully complete the objectives for this course are identified from the skill standards produced by the Oklahoma Department of Career and Technology Education's Testing Division for the Health Certification Project of the Oklahoma State Department of Health using the DACUM process. Students may exit from the course after obtaining Long Term Care aide certification, or may remain for the entire course and test for Home Health Aide.

Licensed Practical Nurse (1463 AD) – Shirley Cottingham, Tamela Mitcham, Susan England, Janet Tisdale, Mary Jo Melby, Diane Phillips and Karen Shirey

Core medical terminology, anatomy and physiology as well as long term care assistant are included in this career major. This career major prepares the student to become a licensed practical nurse, an important member of the health care team who works under the supervision or direction of a registered nurse, licensed physician or dentist. Students will learn the role of the LPN and how to care for a variety of patients including geriatric, pediatric, oncology, and pre/post operative patients. Students will learn how to identify patient problems, identify appropriate interventions and evaluate nursing care. Graduates of this career major will be eligible take the National Council Licensing Examination for Practical Nurses (NCLEX-PN) and become licensed through the Oklahoma Board of Nursing.

Long Term Care/Home Health Care Aide (150 AD) – Patrice McClure

This major is designed to provide students with an introduction to the health field and to teach them the technical skills normally performed by health assistants. Each technical and theory unit has specific objectives pertaining to health. This major coordinates the study of theory and lab skills dealing with body functions and structures.

Nursing Assistant (525 HS) – DeAnn Mabry and Carletta Glasgow

This career major is designed to provide students with an introduction to health care and to teach them technical skills normally performed by health assistants. Each technical and theory unit has specific objectives pertaining to the health field. The career exploration phase is coordinated with the study of technical skills, body structures and functions.

Occupational Therapy Aide (555 HS) – Casey Fife

Occupational Therapy Aides work under the direction of Occupational Therapists (OT) or Occupational Therapy Assistants (OTA) to provide rehabilitative services to persons with mental, physical, emotional, or developmental impairments. The ultimate goal is to improve clients' quality of life and ability to perform daily activities. Aides assist the OT or OTA in demonstrating a variety of therapy techniques to patients, such as manual and creative arts, games, and daily living activities. Occupational Therapist Aides typically prepare materials and assemble equipment used during treatment. They are responsible for a range of clerical tasks, including scheduling appointments, answering the telephone, restocking or ordering depleted supplies, and filling out insurance forms or other paperwork.

Phlebotomist (600 HS) – Tammy Rodriguez

This Phlebotomist Career Major prepares the student to obtain blood specimens for laboratory testing. There are several methods used to obtain blood; therefore, phlebotomy has expanded rapidly and with it the role of the phlebotomist. These changes have resulted in the need for structured phlebotomy training major. Graduates will be prepared for an entry level position as a phlebotomist. This major is fast paced and includes approximately 60 hours of clinical time.

Physical Therapy Aide (600 HS) – Casey Fife

Physical Therapy Aides are skilled health care workers who help Physical Therapists or Physical Therapy Assistants when a patient is receiving treatment. Physical Therapy Aides prepare patients by helping them dress and undress and by putting on and taking off supports and other helpful devices administered during treatment. They secure patients into or onto therapy equipment. Routine treatments are carried out by aides such as applying hot and cold packs to patients, giving water treatments and paraffin baths to patients, keeping track of the patient's condition during treatment and reporting signs of tiredness, distress or other problems. Aides also take patients to and from treatment centers, using proper techniques according to the patient's condition. These workers also change bed sheets and pillow cases, keep treatment supplies in order, clean treatment areas, and sterilize or disinfect equipment and instruments. Aides also have clerical duties which include ordering supplies, filing medical records, and delivering messages.

Radiologic Technology (2815 AD) – Carrie Baxter, Donna Madden, Kelly Smith, and Deborah Ousley

Radiologic Technologists (Radiographer) work under the supervision of physicians, who are primarily Radiologists, operating radiologic equipment to produce radiographs of the body for diagnostic purposes. Various duties of students will include moving the radiology equipment into the specified positions and with proper training, adjusting the equipment control to set exposure techniques and factors based on cognitive and psychomotor skill obtained. Students will also gain limited knowledge and skills in specialty areas such as

computed tomography, bone densitometry, mammography, magnetic resonance imaging, nuclear medicine, special procedures, and ultrasound and radiation oncology. This career major prepares students to sit for a National Certification exam given by the American Registry of Radiologic Technologists.

Surgical Technologist (1185 AD) – Ann Tahah and Charisse Martin

The Surgical Technologist Major is designed to prepare post-secondary adult students for entry-level employment as Surgical Technologists. The career major is structured to provide the students with a foundation in the basic sciences and subjects unique to the operating room. Upon completing the major, the Graduate Surgical Technologist will be able to function as a member of the surgical team delivering direct patient care before, during, and after surgical intervention. The instructional content, which is based on an occupational analysis of the surgical technology field, and is adjusted to reflect local employment - local employment needs as determined by the instructor, administrators, and advisory committee. Upon successful completion of the career major, the Graduate will be eligible to sit for the National Certification Examination. The career major closely follows the guidelines of the Accreditation Review Committee on Education in Surgical Technology and the Commission on Accreditation of Allied Health Education Programs.

Veterinary Assistant (600 HS) – Tammy Rodriguez

Veterinary Assisting is a rewarding career in a growing field. As a Veterinary Assistant you can work with animals and be a part of a professional veterinary staff. Within this career major, students will learn about the care of animals as well as how to recognize signs of illness and disease. These courses cover interpersonal communication, interaction with clients and their animals, as well as, how to assist the veterinarian during examinations. Administrative duties, such as fee collection, banking, and accounts payable are emphasized, and the career major contains basic information about pet insurance.

Hospitality & Tourism (HT)

Culinary Arts Management Assistant (1050 AD; 1050 HS) – Brenda Ronio, Ray Stonerock

This career major offers classroom instruction related to subject areas such as nutrition, culinary basic, advanced skills and management. Students will receive hands-on training in the Food Service Laboratory which will provide experience in food sanitation, food preparation and food service. Students will also demonstrate proper personal hygiene, sanitation, communication, and interpersonal skills.

Culinary Coordinator (1050 AD) – Brenda Ronio and Ray Stonerock

In this career major, students will learn the necessities in order to succeed as a Culinary Coordinator. Students will learn good nutrition as it applies to planning menus and to operating a restaurant. Food service management is also a major component of this career major as students will gain experience in managing an internal kitchen classroom team. Students will also participate in work-based learning experiences in a live work setting. (Prerequisite: Culinary Arts Management Assistant career major)

Culinary Hospitality Assistant (1050 AD; 1050 HS) – Brenda Ronio and Ray Stonerock

This major prepares students as culinary assistants who perform a variety of food preparation tasks in food services and/or food preparation. Instruction provides an overview of restaurant duties, international cuisines, and management skills in the hospitality industry.

Culinary Arts Assistant (510 HS) – Brenda Ronio and Ray Stonerock

This major prepares students for a variety of food preparation skills required for a career in food services and/or food preparation. Instruction incorporates kitchen fundamentals such as safety, sanitation, and kitchen equipment with more advanced training in quantity preparation and presentation of entrees and desserts. Also covered are dining room management principles and specific subject areas such as stocks, soups and sauces. Students will have opportunities to apply the skills they learn in an external internship. The ServSafe certification by National Restaurant Association may be taught/obtained during this course.

Hospitality Service Assistant (1050 AD; 1050 HS) – Rafael Quiles

This career major is designed to provide each student with the information, skills, practices, and attitudes necessary for his or her successful entry into the work force in the field of Hospitality and Tourism.

*Additional career options available upon the completion of the **Hospitality Service Assistant Career Major** and GPTC Counselor approval:*

Auto Service Workforce Transition (390 AD; 390 HS) – Rafael Quiles

This major will be used for all Individualized Cooperative Education (ICE) programs to build their training outline. Students will focus on employability skills while receiving hands-on experience in the automotive service industry.

Food Service Workforce Transition (390 AD; 390 HS) – Rafael Quiles

This major will be used for all Individualized Cooperative Education (ICE) programs to build their training outline. Students will focus on employability skills while receiving hands-on experience in the housekeeping industry. Included is a work-site experience (WSE) where students develop proficiency skills unique to their given occupation along with a formal mentoring program designed to accelerate an individual student's skill development.

Front Office Assistant (270 AD; 270 HS) – Rafael Quiles

This career major is a general introduction to the lodging industry and students who complete it are qualified to assist front desk workers. Customer relations and communications are emphasized.

Housekeeping Workforce Transition (390 AD; 390 HS) – Rafael Quiles

This major will be used for all Individualized Cooperative Education (ICE) programs to build their training outline. Students will focus on employability skills while receiving hands-on experience in the housekeeping industry. Included is a work-site experience (WSE) where students develop proficiency skills unique to their

given occupation along with a formal mentoring program designed to accelerate an individual student's skill development.

Landscape Maintenance Assistant (510 AD; 510 HS) – Rafael Quiles

This T&I career major is designed to prepare students to work as a landscape maintenance technician. Students will be introduced to materials estimating, design considerations, selection of building materials and landscape foliage and there applications.

Maintenance/Operations Workforce Transition (390 AD; 390 HS) – Rafael Quiles

This career major will be use for all ICE (Individualized Cooperative Education) programs to build their training outline.

Service Careers Auto Detailing Assistant (165 AD; 165 HS) – Rafael Quiles

This career major is designed for students enrolled in a Service Careers program. Students will be introduced to the basic skills required to wash, wax, and vacuum a vehicle. Students will be able to assist an auto detail technician in these duties.

Service Careers Custodial Floor Care (240 AD; 240 HS) – Rafael Quiles

This career major will introduce students to the safe practices, tools and equipment, chemical safety and uses and skills required to enter the floor care industry.

Service Careers Food Service Assistant (180 AD; 180 HS) – Rafael Quiles

This T&I career major is designed for students enrolled in a Service Careers program. Students are introduced to the skills required to work safely in the food service industry. Students will be trained in the safe practices and tools used as a food service assistant. This major will prepare students for entry-level jobs in the food service industry.

Service Careers Housekeeping Assistant (288 AD; 288 HS) – Rafael Quiles

This T&I career major is designed for students enrolled in a Service Careers program. Students will be instructed in the safe practices, use of tools and equipment and safe handling of chemicals related to the housekeeping industry.

Information Technology (IT)

3D Animator (1050 AD; 1050 HS) – Jeremy Wright

This career major will provide the student with knowledge and skills necessary for success in game design, 3D modeling, and 3D animation. Students will acquire specific skills to design, to create, and to implement basic computer games and 3D animation. Students gain skills required for Adobe Certified Expert, Adobe Certified Associate, and/or Autodesk industry certifications.

3D Modeler (1050 AD; 1050 HS) – Jeremy Wright

This major prepares students to develop the animated characters and models used in such fields as television, motion pictures, the Internet and the computer games industries.

Students will utilize modeling, rigging, and rig building to develop digital characters and 3D models, including shaping the 3D geometry and the animation controls for manipulating the geometry. Students gain skills required for Adobe Certified Expert, Adobe Certified Associate, and/or Autodesk industry certifications.

Special Effects Technician (600 HS) – Jeremy Wright

The Special Effects career major will provide students with the advanced tools and techniques to develop, design, and animate characters or graphics for television, film, computer, and video game production using advanced graphic design software. Students will focus on the audio, visual, and mechanical elements of special effects to design a creative and technical project with limited supervision.

Desktop Support Technician (1050AD; 1050 HS) – William Matthey

In this career major students will demonstrate knowledge and problem-solving skills in the area of computer installation, evaluations, troubleshooting and upgrades of computer hardware. This would include, but not be limited to, storage, drives, system boards, processors, memory, peripherals, and networks. Emphasis will be placed on hardware devices and network systems as well as communication devices.

PC Support Technician (525 HS) – William Matthey

In this career major students will demonstrate knowledge and problem-solving skills in the area of computer installation, evaluations, troubleshooting and upgrades of computer hardware. This would include, but not be limited to, storage, drives, system boards, processors, memory, peripherals, and networks. Emphasis will be placed on hardware devices and network systems as well as communication devices. Students in this major gain the technical skills required for CompTIA A+ industry certification.

Enterprise Network Professional (1300 AD) – Carl Wicks

This career major is designed to train Microcomputer Hardware/Software/Network Technicians. Hardware diagnostics and repair are presented at the component level. System and application software installation, configuration, and use are covered in detail through the Cisco sponsored IT Essentials 1 curriculum. Network installation, administration and maintenance covers most common networking systems, including the full Cisco Systems Networking Academy (Cisco Certified Network Associate) and Cisco sponsored Panduit Network Infrastructure Essentials, which leads to the Panduit Authorized Installer (PAI) certification. Essential basic skills such as math and writing are also incorporated.

Multimedia Assistant (1050 AD; 1050 HS) – Danny Tibbs

This career major introduces students to the fundamentals of multimedia production. In a hands-on class, students will learn aspects of planning, creating, and managing multimedia projects in an integrated computer environment. Students will add visual imagery, text, graphics, video, audio, and animation to create multi-sensory projects throughout the career major. This major uses Microsoft Office, Adobe Studio 8 and Adobe Premiere software. In addition to learning the software, this major also covers design principles and strategies, storyboarding, presentation skills, HTML and Cascading Style Sheets, scanning, use of digital cameras, and video editing.

Video Editor (1050 AD; 1050 HS) – Danny Tibbs

The goal of this career major is to focus on the foundational skills necessary to be successful in the field of Video Editor. Students will apply media aesthetic principles to visual media and will learn how to utilize digital imaging and manipulation technologies and software. Students, through individual projects, will apply narrative and media aesthetic principles in the production of a series of structured digital projects.

Video Production Assistant (600 HS) – Danny Tibbs

This major prepares students to provide assistance in the production of video recordings and programs. Students master non-linear computer editing techniques as they learn to develop and enhance visual communication. In addition, students acquire skills in digital photography and understand copyright basics. Students gain skills required for Adobe Certified Expert certification. (Broadcast Production is an optional course that may be added to this career major).

Web Designer (600 HS) – Danny Tibbs

This major prepares students for entry-level careers in developing and designing websites. Students acquire fundamental web authoring and design skills through the application of XHTML, Cascading Style Sheets and graphics packages. They learn to create, revise, optimize and export graphics for video, print and web publishing. Students build digital portfolios and develop electronic marketing strategies to promote their work. Students in this major gain the technical skills required for Certified Internet Webmaster, WOW Apprentice Web Designer, Adobe Certified Expert, and/or Adobe Certified Associate industry certifications.

Network System Technician (Security Emphasis) (1050 AD; 1050 HS) – Wesley Sloan

In addition to the skills learned as a Network Systems Technician, this major prepares students to implement security measures for computer systems. Students learn to plan, install, configure, troubleshoot and upgrade network hardware peripherals and protocols and to keep a company's network running efficiently. In addition, students learn to install, configure, maintain and manage a server environment. Students perform desktop maintenance and provide support for users in various network environments. Students in this major gain the technical skills required for Microsoft Certified System Administrator, as well as CompTIA, Cisco, and/or Novell industry certifications.

Network Technician Assistant (510 HS) – Wesley Sloan

This major prepares students to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a wide area network (WAN). Students will perform desktop client administration and maintenance and provide support for users in various work environments, including professional offices, small businesses, work groups, departments, and/or corporate information services (IS). Students are introduced to wireless networking concepts and security prevention measures.

Law, Public Safety, Corrections & Security (PS)

Basic EMT Firefighter (600 AD; 600 HS) – Nancy Howell

This career major will prepare students to sit for the National Registry Examination for Emergency Medical Technician I (Basic) which will qualify them as a Level I Firefighter. A 40-hour clinical experience will be included with the EMT curriculum. Students will complete certified curriculum and work-based conditioning to prepare for both the academic and physical requirements of both occupations. A firefighting practicum of 80 hours will be included as a work-based learning experience.

Criminal Justice Officer (1050 AD; 1050 HS) – Buddy Neasbitt

This career major will prepare students to enter the law enforcement profession as a qualified candidate. Students enrolled in the Criminal Justice career major will receive training that meets or exceeds CLEET standards. Students enrolled in the Criminal Justice career major must complete an 80 hour ride-a-long internship with the Lawton Police Department, Lawton Police Dispatch, US Marshall's Office and other agencies as assigned. Students must agree to allow the Great Plains Technology Center to submit their name to the Lawton Police Department and US Marshall's Office for approval to participate in the ride-a-long internship portion of this work-based learning experience.

Court-related Investigation (570 HS) – Buddy Neasbitt

This career major is an introduction to leadership, negotiations, and communications, radio techniques, telecommunications, critical thinking, prioritization, telephone etiquette, and stress management. Students will be instructed in the proper procedures to follow when handling a court-related investigation.

Manufacturing (MA)

Design Engineer Technician (1050 AD; 1050 HS) – Todd Wallace

This career major is designed for those who wish to pursue careers in the architectural or engineering fields. Graduates of this design engineering training will have basic skills for employment in these disciplines. Students are also prepared to enter at advanced levels into professional degree programs at the university level, in pursuit of becoming registered architects and/or engineers.

During these two years of training, students are required to apply the skills or background knowledge to actual problem solving situations. They will be trained in the latest computer aided drafting (CAD) and solid modeling software, Autodesk Inventor, Revit, and AutoCAD. The student will learn to use these programs to create the drawings necessary for prototyping and production, or in the case of buildings, for construction.

It is the intent of this career major to expose the student to a broad range of skills and basic data. This broad exposure gives the student the ability to be conversant with and/or to seek employment with all related professions within the architecture or engineering professions.

Structural Welder (1410 AD; 1410 HS) – Allen Bellamy

This career major will prepare students for jobs in the metal fabrication industry. Students will have an opportunity to obtain entry-level skills in various welding processes. This career major is designed to teach skills needed to pass the Oklahoma Department of Labor Certification Test for Welders, and most major companies' code tests. Welding practice is done on structural steel, plate, and pipe. Ferrous and non-ferrous metals are welded with some processes. Blueprint reading for welders, simple layout, and fabrication are also part of the curriculum. Instruction in the various welding processes includes: oxy-fuel cutting, shielded metal arc welding, plate and pipe welding, gas metal arc welding and gas tungsten arc welding, math for welders, as well as safety and the proper use of tools. Students will learn the skills necessary to gain employment in the industrial, construction, or manufacturing fields.

Service Careers Metal Fabricator Assistant (525 HS) – Allen Bellamy

This career major is designed for students enrolled in Service Careers programs. Students will be introduced to the safe practices, use of tools and equipment and basic welding skills required to be a metal fabricator's assistant.

Science, Technology, Engineering and Mathematics

PLTW – Biomedical Science and Medicine (960 HS) – Jackie Archer, Mary Truex and William Schlecht

Students in this major will study biomedical science through the exciting Project-Lead-the-Way curriculum that will provide students hand on projects and experiences. Topics will include bio-informatics, human medicine, and an in depth study of the human body. Students will also study advanced math courses that include Pre-AP Algebra II, Pre-AP Trigonometry/Pre-Calculus and an AP math course as well as advanced science courses that include Anatomy and Physiology, Microbiology, Pre-AP Chemistry and AP Chemistry. Students who complete this major will have been exposed to a diverse curriculum that will better equip them to choose a major at the college/university level. Students will also have the strong math and science foundation needed to be prepared to enter a college/university program in a science related field.

PLTW – Pre-Engineering (960 HS) – Michael Farrell, Todd Wallace and Tracy Wicker

Students in this major will study pre-engineering through Project-Lead-the-Way curriculum that will introduce them to the concepts and principles of engineering and there will be a strong emphasis on developing problem solving skills. They will learn how engineers use math, science and technology to solve problems. Students in this major will also complete a course on aerospace engineering in which the students will study astronautics, space-life sciences, and systems engineering (which includes the study of intelligent vehicles like the Mars rovers Spirit and Opportunity) and complete projects developed with NASA. Students will also complete advanced math and science courses, including physics and calculus, which will prepare them to advance to the college or university level.

Transportation, Distribution & Logistics (TD)

Automotive Service Technician (1050 AD; 1050 HS) – Scott Bennett, John Knight and Bill Peters

Students in this major will cover the skills necessary to become an entry-level technician. Students will concentrate on courses in introduction, brakes, steering & suspension, electrical electronics and engine performance. They will learn how to diagnose and complete brake service, perform vehicle steering and suspension alignment, as well as electrical theory, electrical/ electronic diagnostics. Students will cover engine performance diagnostics and techniques for repair using a variety of diagnostic equipment. This career major includes course work on how to evacuate and recharge air-conditioning systems using the proper refrigerant and basic diagnostics of the heat and A/C system. The hours completed in this major are aligned with ASE/NATEF standards, and ASE certification is recommended and industry recognized.

Automotive Maintenance & Light Repair Technician (525 HS) – Scott Bennett, John Knight and Bill Peters

Students in this major will cover the skills necessary to become an entry-level technician. Students will concentrate on courses in introduction, brakes, steering & suspension, electrical electronics and engine performance. They will learn how to diagnose and complete brake service, perform vehicle steering and suspension alignment, as well as electrical theory, electrical/ electronic diagnostics. Students will cover engine performance diagnostics and techniques for repair using a variety of diagnostic equipment. This career major includes course work on how to evacuate and recharge air-conditioning systems using the proper refrigerant and basic diagnostics of the heat and A/C system. The hours completed in this major are aligned with ASE/NATEF standards, and ASE certification is recommended and industry recognized.

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Combination Collision Repair Technician (1050 AD; 1050 HS) – Tony Josey

Students in this major will learn how to complete non-structural collision repair and automotive refinishing. The courses that will be covered include non-structural damage analysis and minor dent repair, plastics repair, all aspects painting and refinishing. Students will also learn how to use various tools in repairing damage and to remove and install handles, moldings, trim, and bolted body parts. In addition, the student will learn to MIG weld industry standard joints following I-CAR standards. This career major also

includes painting preparation, sanding processes, color matching and adjusting color, removing and installing glass, and the process of written estimates. Students will learn about handling, storage and disposal of hazardous materials and selecting proper personal protective equipment and maintenance. The hours completed in this major are aligned with ASE/NATEF standards, and ASE certification is recommended and industry recognized.

Refinishing Technician (625 HS) – Tony Josey

Students in this major will learn how to complete non-structural collision repair and automotive refinishing. The courses that will be covered include non-structural damage analysis and minor dent repair, plastics repair, all aspects painting and refinishing. Students will also learn how to use various tools in repairing damage and to remove and install handles, moldings, trim, and bolted body parts. In addition, the student will learn to MIG weld industry standard joints following I-CAR standards. This career major also includes painting preparation, sanding processes, color matching and adjusting color, removing and installing glass, and the process of written estimates. Students will learn about handling, storage and disposal of hazardous materials and selecting proper personal protective equipment and maintenance. The hours completed in this major are aligned with ASE/NATEF standards, and ASE certification is recommended and industry recognized.

Medium Heavy Diesel Truck Service & Light Repair Technician (1050 AD; 1050 HS) – Eric Alexander

This career major is designed to provide students with the basic theory and hands-on experience to enter the trucking industry as an apprentice in one or more of the ASE certification areas covered within the career major. The certification areas covered in the career major are: Diesel Engines, Electrical/Electronic Systems, Brake Systems, Preventive Maintenance, Suspension and Steering, Introduction to Mechanics and Heating, Ventilation and Air Conditioning. The instructional material format used in this training presents complex mechanical activities in simple logical sequence. The format allows each student some flexibility and control over the learning rate. Instruction focuses on the basic theories of operation, service, and repair of medium/heavy trucks with a major emphasis on preventive maintenance and hands-on activities.

Medium Heavy Diesel Truck Engine Technician (525 HS) – Eric Alexander

This career major is designed to provide students with the basic theory and hands-on experience to enter the trucking industry as an apprentice in one or more of the ASE certification areas covered within the curriculum. The certification areas covered in the career major are: Diesel Engines, Electrical/Electronic Systems, Brake Systems, Preventive Maintenance, Suspension and Steering, Heating, Ventilation and Air Conditioning. The curriculum also includes Introduction to Mechanics.

The instructional material format used in this career major presents complex mechanical activities in simple logical sequence. The format allows each student some flexibility and control over the learning rate. Instruction focuses on the basic theories of operation, service, and repair of medium/heavy trucks with a major emphasis on preventive maintenance and hands-on activities.