



Career Education Center

Indiana's Largest Career Center

Prosser Career Education Center provides high-quality career and technical education (CTE) programs for high school students throughout southern Indiana. With an average enrollment of 1,350 students enrolled in 24 different career preparation programs, Prosser is the largest career center in the state of Indiana. Prosser students have opportunity to earn multiple college credits and nationally recognized certifications for successfully completing the CTE program. With proper planning, students can earn the Technical and/or Academic Honor's diploma.

Junior and senior students will attend Prosser for half of the instructional school day, while the other half of the instructional day will be utilized to complete academic requirements at the home school. Most programs offer two years of career preparation training, but many students will choose to attend for only one year. Students complete Intent-to-Enroll forms in early spring the year before they will attend. Students wanting to attend Prosser need to meet with their home school counselor to ensure the Prosser career program matches future goals as well as desired diploma type.

For more information about each program, including dual college credit and certification opportunities, go to [www.prossercareers.com](http://www.prossercareers.com)

## Course Offerings

\*=1 year program

\*\*=1 year program/seniors only

### Agriculture Programs

**\*Horticulture Science (DOE 5132)** Horticulture students study the biology and technology involved in the production, processing and marketing of horticultural plants and products. Students study plant propagation and growth, growth media, floriculture, greenhouse management, nursery stock and landscaping. While participating in a variety of activities, including extensive laboratory work in the school's five greenhouses, students grow plants to sell to the community during winter and spring plant and flower sales events. *Related Careers:* Landscaper, Horticulture Sales, Sports Turf Specialist

**\*Landscape Management I (DOE 5136)** Landscape Management students experience an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures of landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscape operations and the care and use of equipment utilized by landscapers. *Related Careers:* Landscaper, Horticulture Sales, Sports Turf Specialist

### Architecture and Construction Programs

**Architectural Drafting and Design I & II (DOE 5640/5652)** Drafting students will learn the theory and skills of architectural drafting and design. Curriculum will focus on all aspects of fundamental drafting, geometric constructions, orthographic (multi-view) drawings, ANSI standards, and residential design and site work. Students will learn to transition from 2 dimensional drafting to 3 dimensional modeling. This course will utilize the most current computer-aided design (CAD) and 3D modeling software available. *Related Careers:* Architect, Engineer, Interior Designer

**Open House is ALWAYS on the 3<sup>rd</sup> Thursday of January from 5:30 – 7:30.**

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**Construction Trades I & II (DOE 5580/5578)** Construction students gain familiarity with all aspects of building of a single-family residence. Through classroom instruction and laboratory experience, students acquire hands-on training in estimating, layout, footing and foundation, platform construction, framing, roofing, sidings, insulation, exterior finish, window and door installation, and stair building. Students learn safe ways to construct brick and block walls; identify and mix mortar; mix and finish concrete. During each school year, students construct one home in Prosser's *Builders' Ridge* subdivision to be sold on the open real estate market. ***Related Careers:*** Frame/Trim Carpenter, Mason/Bricklayer, Construction Cost Estimator

**Construction and Earthmoving Equipment Operator I & II (DOE 5497/5499)** Construction and Earthmoving Equipment students are trained to operate and/or maintain heavy equipment. Students learn how to maneuver and operate heavy equipment on computerized simulators as well as on actual backhoes, skid-steers, excavators and bulldozers. In addition, students learn to operate rollers, tractors, earthmovers, extended-hoes, graders, dump trucks, and rubber-tired loaders. Curriculum includes knowledge of safety and preventative maintenance, surveying, road construction, and basic earthwork construction. ***Related Careers:*** Heavy Equipment Operator, Excavation Specialist, Home-site Specialist

**Electrical I & II (DOE 4830/4832)** Electricity students learn basic electrical theory, residential, commercial and industrial wiring. An in-depth study of the National Electrical Code is a primary focus as students wire the residential homes in *Builders' Ridge*, Prosser's subdivision. Industrial automation, including robotics, programmable logic controllers, and mecha-tronics provide students with the high-demand training for factory maintenance, installation and repair work. Included in the second year of study, motors, rotating machines, and electrical motor controls and basic aspects of green energy, including photo-voltaics (solar) and wind turbines. ***Related Careers:*** Residential/Commercial/Industrial Electrician, Electro-Mechanical Technician, Electrical Engineer

**Heating, Ventilation, Air-Conditioning and Refrigeration I & II (DOE 5496/5498)** HVACR students learn all aspects of the fundamentals of residential and commercial HVACR. Curriculum will focus on the skills and knowledge required for troubleshooting, repairing and maintaining heating and air-conditioning units. In addition, students identify and interpret health, safety, and welfare standards and codes as designated by local, state, or federal agencies. Students will install the HVAC units and ductwork in the residential homes in *Builders' Ridge*, Prosser's subdivision. ***Related Careers:*** Residential/Commercial Technician, HVAC Sales and Service, HVAC Installation

### **Arts/AV Technology & Communications Programs**

**\*\*Interactive Media (DOE 5232)** Interactive Media students will utilize computer software to manipulate text, photos, graphics, sound and moving images into creative projects. Interactive media emphasizes the development of digitally generated or computer enhanced products using multiple technologies. Graphic design, animation, full audio and video production and photography are also included. ***Related Careers:*** Graphic Designer, Audio Engineer, Web Content Designer

### **Business and Marketing Programs**

**Entrepreneurship and New Ventures (DOE 5966)** Entrepreneurship students will study curriculum that focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. A special focus will be placed upon the entrepreneurship skills and tools critical for starting and succeeding in a new business venture. Topics of government and legal restrictions, franchising, sales and revenue forecasting, business accounting, start-up funding, and business plan development will also be covered. ***Related Careers:*** Accountant, Sales Representative, Business Manager

**\*\*Advanced Business Management (DOE 5268)** Advanced Business Management will prepare students to plan, organize, direct and control the functions and processes of a firm or organization and be successful in a work environment. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Students will spend a great deal of the time in on-the-job training opportunities in real world business and industry settings. ***Related Careers:*** Sales Representative, Business Manager, Business owner, Human Resources

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### **Health and Human Services**

**Cosmetology I & II (DOE 5802/5806)** Cosmetology students study curriculum related to bacteriology, anatomy, hygiene, and sanitation, as well as, small business (salon) management, record keeping, and customer relations. Students' practical experiences will be conducted in a lab setting as well as in the Prosser School of Cosmetology full-service salon. Cosmetology students accumulate the required 1500 clinical hours over the two-year period to be eligible to test for the Indiana Cosmetology License. *Related Careers:* Cosmetologist, Nail Technician, Make-up Artist

**Culinary Arts and Hospitality/Advanced Culinary Arts (DOE 5440/5346)** Culinary Arts students will successfully complete three the basic disciplines of baking, food and beverage, and culinary. Instruction includes sanitation and safety requirements for food preparation; maintenance and operation of culinary tools and equipment; recipe reading and measurement. In addition to classroom instruction, students' practical experiences will be conducted in a lab setting as well as in the Prosser Café and through participation in Prosser's Culinary catering service. *Related Careers:* Chef, Caterer, Restaurant Manager

**Health Science Education I & II (DOE 5282/5284)** Health Science students study the skills common to specific health-career topics and study medical terminology, basic anatomy/physiology, disease processes, infection control, and components for wellness and healthy lifestyle. Students learn and demonstrate technical skills in Prosser's mock clinical laboratories. In addition, students study the role of the healthcare worker, effective communication skills, and the legal and ethical standards within the health care industry. Second-year students focus on career specialists and are placed in an actual clinical setting where they are prepared for the Certified Nursing Assistant (CNA) certification. Students participate in a variety of other experiences such as nursing, lab testing, obstetrics, imaging, physical therapy, surgery, medical offices or extended care. *Related Careers:* Nurse, Medical Assistant, X-Ray Technician

**\*\*Introduction to Pharmacy (DOE 5214)** Pharmacy students will attend their home school for a full schedule of classes and attend Prosser's pharmacy class two days a week from 3:45 p.m. – 6:00 p.m. Students study an introduction to health care systems, basic medical and pharmaceutical terminology, body systems, pharmaceutical dispensation, drug conversions, legal and ethical responsibilities, the role of the pharmacist/technician, pharmaceutical industry trends. In addition, students participate in a required internship within an actual pharmacy. Students must be 18 by November 1<sup>st</sup> to participate in this experience. *Related Careers:* Pharmacist, Pharmacy Technician, Pre-Med

### **Information Technology Programs**

**Computer Tech Support I/Infrastructure To The Internet II (DOE 5230/4588)** Networking students will learn how to assemble and configure computers, install operating systems and software, and troubleshoot hardware and software problems. Students will also learn all aspects of network support including the fundamental concepts of local, wide area, and home networks. The Network Systems curriculum is aligned with Comptia A+, Comptia Network+, and Cisco CCNA. *Related Careers:* Information Systems Management, Computer Installation & Maintenance, Computer Systems Analysis

**Computer Programming I & II (DOE 4534/5236)** Computer Programming students design, develop, test, document, implement and maintain computer systems and software. Programming introduces the structured techniques necessary for efficient solution of business-related computer programming logic problems and coding solutions into the high-level languages. Students learn computer languages, including Visual Basic and C++, JAVA, PHP, XHTML, Javascript, XML, AJAX, Oracle and SQL. *Related Careers:* Computer Programmer, Computer Software Engineer, Database Manager

### **Public Safety Programs**

**Criminal Justice I & II (DOE 5822/5824)** Criminal Justice students will study the basic fundamentals of law enforcement and the criminal justice system. The Criminal Justice curriculum is based on the standards and content provided by official law enforcement academies. Students will learn criminal law, traffic control, and how to conduct effective criminal investigations. Students will also learn personal safety and defense tactics and participate in weekly physical training. *Related Careers:* Police Officer, Probation Officer, Conservation Officer

**Fire and Rescue I/ Fire Rescue II (5820/5826)** Fire and Rescue students will focus on all aspects of Fire Science in the first year curriculum. This will include Firefighter safety and health, fire control and behavior, rescue equipment, and hazardous materials. Second year curriculum will include pre-hospital care, medication identification, and ambulance operations. Students completing the second year curriculum will be prepared to test for a Basic Emergency Medical Technician (EMT) certification. *Related Careers:* Firefighter, EMT, Paramedic

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### Manufacturing Programs

**Precision Machining Technology I & II (DOE 5782/5784)** Precision Machine students learn a basic understanding of the precision machining processes used in industry, manufacturing, maintenance and repair. Students experience hands-on training on some of the most technologically advanced equipment found in industry, including CNC (computer numerical control) lathes, CNC mills, EDM (electrical discharge machining) wire machines, CMM (coordinate measuring machine), CAD/CAM (computer-aided design/computer-aided machining) computers, robots, lathes, mills, surface grinders, drill presses, and saws. **Related Careers:** Machinist, Tool & Die Maker, CNC Programmer

**Welding Technology I & II (DOE 5776/5778)** Welding Technology students learn to fabricate and weld metal, using shielded metal arc, oxy fuel, MIG, TIG, and plasma arc techniques and procedures. In addition, students study the properties of metals, safety, blueprint reading, electrical principles, welding symbols, and mechanical drawings. The principles of metallurgy, gases, and material science are integral to this course. **Related Careers:** Pipe Fitter, Iron Worker, Steel Fabricator

### Transportation Programs

**Aviation Operations I/Aviation Flight I (DOE 5528/5524)** Aviation students will receive a broad-based introduction to the field of aviation. Course activities include: familiarization with aviation technology; a historic overview of the field of aviation; exploration of the current aviation environment and careers and employment opportunities in the field. Topics are focused on aircraft manufacturing, airline operations, general aviation, air-freight, airport management, and government service. Additional topics covered include: aviation safety, human factors, regulations, and certification. This course also prepares new student pilots for the maneuvers that are required to be performed during the Practical Test portion of the Private Check Ride. In addition to these maneuvers, basic aerodynamics, aircraft systems, instrument construction and operation, weight and balance, aviation flight physiology as well as a basic working knowledge of aircraft power plants and their construction will be covered. **Related Careers:** Pilot, Air-Traffic Controller, Grounds Crew

**Automotive Collision Repair Technology I & II (DOE 5514/5544)** Auto Collision students train in many phases of the collision repair process: cost estimating, frame and body damage analysis, structural and uni-body three-dimensional measuring, metal straightening, MIG welding, computerized frame diagnosis, computerized color mixing, computerized estimating of repair costs, panel and parts replacement. Students also learn auto-electrical systems, air-conditioning and air-bag systems. In addition to completing classroom instruction, students' practical experiences will be conducted in Prosser's fully-operational auto collision business. **Related Careers:** Collision Repair Technician, Insurance Estimator/Appraiser, Automotive Refinish Tech

**Automotive Services Technology I & II (DOE 5510/5546)** Automotive Services Technology students learn industry theory and experience hands-on instruction in repairing vehicles using the latest diagnostic and repair equipment in the automotive industry. Topics covered include steering and suspension, braking systems, manual transmissions, differentials, automatic transmissions, air conditioning, engine repair, electrical systems and engine performance. In addition to completing classroom instruction, students' practical experiences will be conducted in Prosser's fully-operational automotive services business. **Related Careers:** Auto Service Technician, Service Writer, Insurance Adjuster

**Diesel Service Technology I & II (DOE 5620/5624)** Diesel Service Technology students experience all phases of repair work on diesel engines and heavy equipment. Classroom and lab activities utilize state-of-the-art diagnostic equipment and tools to repair and troubleshoot all aspects of diesel operation, service and maintenance. Students also practice with the use of technical manuals, hand and power tools, and testing and diagnostic equipment. **Related Careers:** Diesel Maintenance Technician, Hydraulics Repair Technician, Service Writer



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