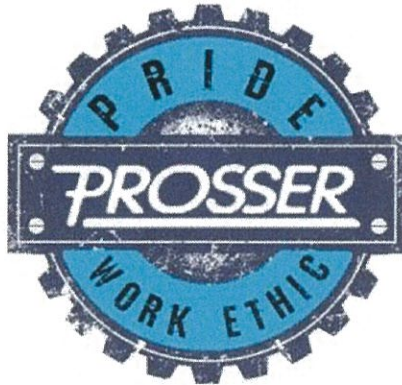


Prosser Career Education Center



2022-2023

Detailed Program Guide

This document contains the complete program listings for Prosser Career Education Center. Each of the program listings in this document are the official description and course work for the more than twenty programs offered at Prosser Career Education Center. This is a fluid document and can change from time to time as we update and revise programming. Besides the course description, you can also find the dual credit affiliated program and the program's certification. Please note that certifications in **bold** text represent State approved certifications. Please call 812 542-6605 if you have questions or require discussion.

Latest Update

December 2, 2021

9:00 am

Career Cluster: Advanced Manufacturing

1. Industrial Automation and Robotics

Description: In this program students will learn about today's industrial & manufacturing technologies in a hands-on environment. Students will learn about industrial safety, basics of electricity, fluid power, mechanical principles, AutoCAD, blueprint reading, industrial control wiring, motor controls, PLC's, robotic programming, and more! Students will also earn Industry standard certificates as part of their education as well: OSHA-10, NCCER Core, Fanuc Tool Handling & Programming, CPR/AED, & the MSSC CPT. In this program, students will have the knowledge and skills needed to go into a high-demand career upon completing high school.

Junior Year: 7108 Principles of Advanced Manufacturing
7103 Advanced Manufacturing Technology
7106 Mechatronics Systems

Senior Year: 2022 - 5688 Industrial Technical Maintenance II
2023 - 7224 Industrial Automation and Robotics Capstone

Dual Credits: Ivy Tech

Certifications:

2. Precision Machining

Description: Precision machine students learn to shape & form metal using the most current tool & die equipment available. Hands-on training will be 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.

Junior Year: 7109 Principles of Precision Machining
7105 Precision Machining Fundamentals
7107 Advanced Precision Machining

Senior Year: 2022 - 5784 Precision Machining II
2023 - 7219 Precision Machining Capstone

Dual Credits: Vincennes

Certifications:

3. Welding Technology

Description: 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. This program includes classroom and lab experiences that lead students to AWS Certifications.

Junior Year: 7110 Principles of Welding Technology
7111 Shielded Metal Arc Welding
7101 Gas Welding Processes

Senior Year: 2022 - 5778 Welding Technology II
2023 - 7226 Welding Technology Capstone

Dual Credits: Ivy Tech

Certifications:

Career Cluster: Agriculture, Food, and Natural Resources

4. Landscaping

| | |
|-----------------|---|
| Description: | Landscaping 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. Students will also participate in a variety of activities, including extensive laboratory work in the exciting world of hydro and aeroponics. |
| Junior Year: | 7117 Principles of Agriculture 5132 Horticultural Science 7115 Landscape and Turf Management |
| Senior Year: | 2022/ 2023 - 7234 Landscape Management Capstone |
| Dual Credits: | Vincennes |
| Certifications: | |

Career Cluster: Architectural and Construction

5. Civil Construction (Heavy Highway)

| | |
|-----------------|--|
| Description: | Heavy 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, graders, dump trucks, and rubber-tired loaders. Curriculum includes knowledge of safety and preventative maintenance, surveying, road construction, and basic earthwork construction. |
| Junior Year: | 7130 Principles of Construction Trades 7121 Civil Construction Fundamentals 7118 Advanced Civil Construction |
| Senior Year: | 2022 - 5495 Construction Trades: Heavy Equipment II 2023 - 7240 Civil Construction Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | NCCER Core, Operator 1, Operator 2 |

6. Construction Trades - Carpentry

| | |
|-----------------|--|
| Description: | Construction students gain familiarity with all aspects of building commercial and residential structures. 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 also learn 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 <i>Builders' Ridge</i> subdivision to be sold on the open real estate market. |
| Junior Year: | 7130 Principles of Construction Trades 7123 Construction Trades: General Carpentry 7122 Construction Trades: Framing and Finishing |
| Senior Year: | 2022 - 5578 Construction Trades II 2023 - 7242 Construction Trades Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | NCCER Core, Carpentry Level 1, Carpentry Level 2 |

7. Construction Trades - Electrical

| | |
|-----------------|---|
| Description: | Students in this program learn Commercial, Industrial, and Residential Electrical installation, and can complete years 1 and 2 of the Electrical Apprenticeship curriculum. Study of Electrical Theory, the National Electrical Code, along with Branch Circuit Wiring and Switch Control are a primary focus. Motors, Control Systems, Conduit Bending, and service entrance installation are also included. All students participate in Job Shadowing, Micro-Internships, and in the 2nd Semester of their Senior year work paid Internships. Over 20 College Credits, various certifications, and on the job training yield a high level of learning for these students and advanced placement in postsecondary apprenticeships, and gainful employment are to be anticipated. Students who choose the Prosser Adult Electrical Apprenticeship can enter the program after high school at the 3rd Year Level. This program, sponsored by the Associated Builders & Contractors, has yielded a large number of licensed Journeyman Electricians - including Prosser Graduates. Some by the age of 21 years old. Additionally an Associates Degree with Vincennes University can be achieved through this same program. All on our campus. |
| Junior Year: | 7130 Principles of Construction Trades 7124 Electrical Fundamentals 7119 Advanced Electrical |
| Senior Year: | 2022 - 5688 Industrial Technical Maintenance II 2023 - 7263 Construction Trades Electrical Cap |
| Dual Credits: | Ivy Tech |
| Certifications: | NCCER Electrical 1 |

8. Construction Trades - HVAC

| | |
|-----------------|---|
| Description: | HVAC students learn all aspects of the fundamentals of residential and commercial HVAC. Curriculum will focus on the skills and knowledge required for trouble-shooting, repairing and maintaining heating and air-conditioning units. Additional topics include tool and meter use, temperature measurement, heat flow, the combustion process, and pipe installation practices. |
| Junior Year: | 7131 Principles of Heating, Ventilation, and Air Conditioning (HVAC) 7125 HVAC Fundamentals 7126 HVAC Service |
| Senior Year: | 2022 - 5498 Construction Trades: HVAC II 2023 - 7244 HVAC Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | |

Career Cluster: Arts, AV Tech and Communication

9. Digital Design (Interactive Media) - One Year Program

| | |
|-----------------|---|
| Description: | Interactive media students study the creation of digitally generated or enhanced projects using the most current industry base software available. Students will learn to manipulate text, photos, graphics, animations, sound, and video into creative projects. Studies also include professional business practices, the importance of ethics, communication skills, teamwork and making deadlines. This is a one year course. |
| Junior Year: | 7140 Principles of Digital Design 7141 Digital Design Graphics 7138 Interactive Media Design |
| Senior Year: | No Second Year |
| Dual Credits: | No Dual Credits |
| Certifications: | No Certifications |

Career Cluster: Business Management

10. Entrepreneurship/ Marketing and Finance

| | |
|-----------------|---|
| Description: | Entrepreneurship students will be immersed in a program that seeks to prepare them to be responsible, resourceful individuals who become problem solvers that contribute to economic development. Students will learn essential skills that will prove very useful in starting their own businesses. Students will participate in community centered experiences via tours, guest speakers, and workshops. Students are empowered to connect, collaborate and build their own personal network. Students will be provided many opportunities to develop their: <ul style="list-style-type: none">- curiosity (tracking sparks, seeing problems & opportunities, active vs. passive mind, joy, inspiration)- empathy (self-awareness, social awareness, self-management, active listening, compassion)- creativity (idea generation, innovation, imagination, growth mindset)- courage (trying something new, risk taking, overcoming obstacles)- confidence (public speaking, pitching, networking, self-worth, professionalism)- vulnerability skills (fail fast, fail forward, honesty, authenticity, releasing expectations) |
| Junior Year: | Entrepreneurship Pathway 7154 Principles of Entrepreneurship 7148 New Venture Development 7147 Small Business Operation |
| Senior Year: | Strategic Marketing Pathway 4562 Principles of Business Management 5914 Marketing Fundamentals 5918 Strategic Marketing |
| Dual Credits: | Ivy Tech |
| Certifications: | |

Career Cluster: Education and Training

11. Early Childhood

| | |
|-----------------|---|
| Description: | An Early Childhood Education program at Prosser will help prepare students for a rewarding career teaching children in the preschool age range. Early childhood educators are responsible for caring for and educating young children. The areas of study within this career focus on both cognitive and social development. Prosser students will receive experience working with a wide range of students throughout the pre-school age range that include both traditional and special education classrooms. |
| Junior Year: | 7160 Principles of Early Childhood Education 7158 Early Childhood Education Curriculum 7159 Early Childhood Education Guidance |
| Senior Year: | 2022 Same as above 2023 Unknown at this point |
| Dual Credits: | Ivy Tech (In Development) |
| Certifications: | |

Career Cluster: Health Sciences

12. Health Careers

| | |
|-----------------|--|
| Description: | 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. In addition, students study the role of the healthcare worker, effective communication skills, and the legal and ethical standards within the healthcare industry. Second-year students will be placed in an actual clinical setting where they are prepared for the Certified Nursing Assistant (CNA) certification or work toward a Central Service Technician certificate that focuses on Surgical Instrumentation. Students participate in a variety of other experiences such as nursing, lab testing, obstetrics, imaging, physical therapy, surgery, medical offices or extended care. |
| Junior Year: | 7168 Principles of Health 5274 Medical Terminology 7166 Healthcare Specialist: CNA |
| Senior Year: | Still in Development |
| Dual Credits: | Ivy Tech |
| Certifications: | |

13. Central Service Technician (Sterile Processing)

| | |
|-----------------|--|
| Description: | A central service technician is a medical professional who prevents infections by sterilizing, cleaning, processing, assembling, storing, and distributing medical supplies in a healthcare facility. ... They must conduct inventories and stock medical disposable goods in storage areas. |
| Junior Year: | 7168 Principles of Health 5274 Medical Terminology 7163 Central Service Technician Fundamentals |
| Senior Year: | 2022/ 2023: 7257 Central Service Technician Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | |

14. Dental Careers

| | |
|-----------------|--|
| Description: | This program will prepare students for an entry-level dental assisting position. Dental Assistants have one of the most diverse & interesting of all positions in a dental office. The curriculum will include instruction in chair-side assisting, equipment/instrument identification, tray set-ups, sterilization, disease control, histology, tooth morphology, and dental charting. Simulated in-school laboratories and an internship at an actual dental office are included. |
| Junior Year: | 7315 Principles of Dental Careers 7316 Dental Careers Fundamentals 7317 Advanced Dental Careers |
| Senior Year: | 2022: 5204 Dental Careers II 2023: 7318 Dental Careers Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | |

15. Pharmacy Technician (Taught After Regular School Hours)

| | |
|-----------------|--|
| Description: | This course introduces the student to the foundational principles, career concepts, and entry-level skills and duties typically performed by a pharmacy technician in community/retail, hospital/health system, and other pharmacy practice settings. Classroom and lab activities provide opportunities for demonstration of knowledge, understanding, and proficiency in technical and customer service applications related to the role and scope of practice of a pharmacy technician. Essential pharmacy calculations are presented with emphasis on the development of problem-solving skills for safe pharmacy practices. |
| Junior Year: | 7168 Principles of Healthcare 5274 Medical Terminology 7167 Pharmacy Tech |
| Senior Year: | |
| Dual Credits: | |
| Certifications: | |

Career Cluster: Hospitality

16. Culinary Arts

| | |
|-----------------|--|
| Description: | Culinary Arts students will successfully complete three 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. |
| Junior Year: | 7173: Principles of Culinary and Hospitality 7171: Nutrition 7169: Culinary Arts |
| Senior Year: | 2022: 5458 Culinary Arts and Hospitality II: Hospitality Management 2023: 7233 Culinary Arts Capstone |
| Dual Credits: | Vincennes |
| Certifications: | |

Career Cluster: Human Services

17. Cosmetology

| | |
|-----------------|--|
| Description: | Cosmetology students learn a 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. |
| Junior Year: | 7330 Principles of Cosmetology 7331 Cosmetology Fundamentals 7332 Advanced Cosmetology |
| Senior Year: | 2022: 5806 Cosmetology II 2023: 7334 Cosmetology Capstone |
| Dual Credits: | Vincennes |
| Certifications: | State Boards |

Career Cluster: Information Technology

18. Cyber Security “Information Technology Operations”

| | |
|-----------------|---|
| Description: | In this course, students will learn fundamental cybersecurity topics including computer repair, the basics of cryptography, software security, networking fundamentals, basic system administration and investigate the fields of cybersecurity. The course is designed to address the fundamental implications of technology, the history of securing information and the relationship to the evolution of technology, and the need to securely transmit and store information. This is not a “hacking” class, but we do include the ways computers, programs, networks, and people are exploited by hackers, and what we can do to prevent or minimize the damage caused by bad actors. |
| Junior Year: | 7183 Principles of Computing 7180 Information Technology Fundamentals 7181 Networking and Cybersecurity Operations |
| Senior Year: | 2022: 5245 Networking II: Cybersecurity Capstone 2023: 7249 Cybersecurity Operations Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | |

19. Software Development (Programming)

| | |
|-----------------|---|
| Description: | Students will learn computer programming concepts needed to implement and maintain software applications that people use every day with their computers, mobile devices and game consoles. Students learn multiple programming languages, providing a broad background. Discussion will also include database administration and data maintenance. Students will be introduced to data concepts such as data warehousing, data mining and BIG data. |
| Junior Year: | 7183 Principles of Computing 7185 Website and Database Development 7184 Software Development |
| Senior Year: | 2022: 5250 Computer Science III: Databases 2023: 7253 Software Development Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | |

20. Networking

| | |
|-----------------|---|
| Description: | A network student learns the skills for implementing, maintaining, troubleshooting and repairing computer and network systems. Network technicians set up Internet connections, establish different types of networks and connect them. |
| Junior Year: | 7183 Principles of Computing 7180 Information Technology Fundamentals 7182 Networking Fundamentals |
| Senior Year: | 2022: 4588 Networking II: Infrastructure 2023: 7251 Networking Capstone |
| Dual Credits: | Vincennes |
| Certifications: | |

Career Cluster: Public Safety

21. Criminal Justice

| | |
|-----------------|---|
| Description: | Criminal Justice students will study the basic fundamentals of law enforcement and the criminal justice system as well as explore the many other career opportunities in Criminal Justice to include, but not limited to: Social Work, Paralegal, and Corrections. 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. |
| Junior Year: | 7193 Principles of Criminal Justice 7191 Law Enforcement Fundamentals 7188 Corrections and Cultural Awareness |
| Senior Year: | 2022: 5824 Criminal Justice II 2023: 7231 Criminal Justice Capstone |
| Dual Credits: | Vincennes |
| Certifications: | |

22. Fire Rescue and EMT

| | |
|-----------------|---|
| Description: | 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. |
| Junior Year: | 7195 Principles of Fire and Rescue 7189 Fire Fighting Fundamentals 7186 Advanced Fire Fighting |
| Senior Year: | 2022: 5826 Fire and Rescue II 2023: 7229 Fire and Rescue Capstone - EMT Certification |
| Dual Credits: | Ivy Tech |
| Certifications: | Firefighter I, Firefighter II |

Career Cluster: STEM

23. Design Technology (Drafting)

| | |
|-----------------|--|
| Description: | 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 2D drafting to 3D modeling. This course will utilize the most current computer-aided design (CAD) and 3D modeling software available. |
| Junior Year: | 4802 Introduction to Engineering Design 7196 Mechanical and Architectural Design 7197 BIM Architecture |
| Senior Year: | 2022: 5652 Architectural Drafting and Design II 2023: 7225 Architectural Design Capstone |
| Dual Credits: | Ivy Tech |
| Certifications: | |

Career Cluster: Transportation, Distribution, and Logistics

24. Automotive Services

| | |
|-----------------|---|
| Description: | 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, electrical systems and engine performance. |
| Junior Year: | 7213 Principles of Automotive Services 7205 Brake Systems 7212 Steering and Suspensions |
| Senior Year: | 2022: 5546 Automotive Services Technology II 2023: 7375 Automotive Service Capstone |
| Dual Credits: | Vincennes |
| Certifications: | |

25. Automotive Collision Repair

| | |
|-----------------|---|
| Description: | 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. |
| Junior Year: | 7215 Principles of Collision Repair 7204 Automotive Body Repair 7206 Plastic Body Repair and Paint Fundamentals |
| Senior Year: | 2022: 5544 Automotive Collision Repair II 2023: 7380 Collision Repair Capstone |
| Dual Credits: | Vincennes |
| Certifications: | ICAR |

26. Aviation Careers

| | |
|-----------------|--|
| Description: | 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. Second year students will experience actual flight time arranged so that a full schedule at their homeschool is possible. |
| Junior Year: | 7214 Principles of Aviation Management 7217 Private Pilot Theory 7207 Aviation Safety and Operations |
| Senior Year: | 2022: 5524 Aviation Flight 2023: 7218 Aviation Management Capstone (Unsure how this will look) |
| Dual Credits: | Vincennes |
| Certifications: | |

27. Diesel Services

| | |
|-----------------|--|
| Description: | 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. Instructions in personal and environmental safety practices as related to OSHA and other agencies that affect industry working in the ground transportation technical areas are also covered. |
| Junior Year: | 7216 Principles of Diesel Technology 7210 Diesel Steering and Brakes 7211 Diesel Transmissions |
| Senior Year: | 2022: 5624 Diesel Service Technology II 2023: 7221 Diesel Services Capstone |
| Dual Credits: | Vincennes |
| Certifications: | |