

NEW
CASTLE
CAREER
CENTER

2018-2019

Program Description Guide



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Program Description Guide
2018-19

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SUMMARY CHART

The following career programs are offered at New Castle Career Center (NCCC). The number of high school credits offered per school year and the grade level participation for each career program is listed. Detailed descriptions of each career program are included in the CAREER PROGRAM DESCRIPTIONS section of this document.

New Castle Career Center Course Title	Indiana Dept of Education (DOE)	DOE Course Title	DOE Abbrev	High School Credits	High School Grade Level Participation		
	Course #						
Advanced Business Mgmt & Accounting	5268 & 4524	Administrative & Office Management (4 hours) Introduction to Accounting (2 hours)	BUS MT FIN & ACCTNG	6		11	12
Advanced MFGT (HIRE)	5608	Advanced Manufacturing I	ADV MFTG I	6		11	12
Advanced MFGT II (HIRE)	5606	Advanced Manufacturing II	ADV MFTG II	6			12
Broadcasting I	5986	Radio & Television I	RAD TV I	6		11	12
Broadcasting II	5992	Radio & Television II	RAD TV II	6			12
Building Trades I	5580	Construction Trades I	CONST TECH I	6		11	12
Building Trades II	5578	Construction Trades II	CONST TECH I	6			12
Computer Tech Support	5230	Computer Tech Support	COMP TECH	6		11	12
Networking Fundamentals	5234	Networking I	NTWRK FUND	6		11	12
Cosmetology I	5802	Cosmetology I	CSMTLGY I	6		11	
Cosmetology II	5806	Cosmetology II	CSMTLGY II	6			12
Culinary Arts I	5440	Culinary Arts & Hospitality Management I	CULART HOSP	6		11	12
Culinary Arts II	5346	Culinary Arts & Hospitality Management II: Culinary Arts	ADV CUL ARTS	6			12
Dental Careers I	5203	Dental Careers I	DENTCRRS I	6		11	
Dental Careers II	5204	Dental Careers II	DENTCRRS II	6			12
Early Childhood Education	5412	Early Childhood Education I (<i>Preschool Interns</i>)	ECE I	6		11	12
Education Professions	5408	Education Professions I (<i>Teacher Interns</i>)	ED PROF I	6		11	12
EMT / Public Safety	5210	Emergency Medical Services	EMS	6			12
Facility Maintenance I	5593	Building & Facilities Maintenance I	BF MANT I	2-6	10	11	12
Facility Maintenance II	5594	Building & Facilities Maintenance II	BF MANT II	2-6		11	12
Finance Academy I	4524 & 5918	Introduction to Accounting (2 hours) Strategic Marketing (4 hours)	FIN ACA	6		11	12
Finance Academy II	4522 & 5268	Advanced Accounting (2) Administrative & Office Management (4)	FIN ACA II	6			12
Graphic Design I	5550	Graphic Design & Layout	GRAPH DES LT	6		11	12
Graphic Design II	5232	Interactive Media	INT MEDIA	6			12
Health Careers	5286	Health Science Education II: Special Topics	HSE II ST	6			12
Health Careers	5284	Health Science Education II: Nursing	HSE II NURS	6			12
ICE	5902	Interdisciplinary Cooperative Education (<i>ICE</i>)	ICE	6			12
Machine Trades I	5782	Precision Machining I	PCSN MACH I	6		11	12
Machine Trades II	5784	Precision Machining II	PCSN MACH II	6			12
Pre-Engineering I	4836	Mechanical Drafting & Design I	MECH DD I	6		11	12
Pre-Engineering II	4838	Mechanical Drafting & Design II	MECH DD II	6			12
Strategic Marketing	5918 & 4562	Strategic Marketing (2) Principles of Business Management (4)	STRT MRKT	6		11	12
Veterinary Science I	5211	Veterinary Careers I	VET I	6		11	12
Veterinary Science II	5212	Veterinary Careers II	VET II	6			12
Welding I	5776	Welding Technology I	WELD TECH I	6		11	12
Welding II	5778	Welding Technology II	WELD TECH II	6			12

GENERAL INFORMATION

Schedule

All classes meet three (3) hours per day, unless otherwise noted. Students attend either a morning or an afternoon session. The remainder of the school day is scheduled at the home school. Students enroll in career programs for the entire school year.

Locations and Transportation

Most programs are located in New Castle either in the New Castle Career Center wing of New Castle High School or at the Raintree Education Center (REC). The Building Trades program has a construction site in a different location each year. Students enrolled in Strategic Marketing attend the career program at Tri High School, students enrolled in Broadcasting attend at Knightstown Community High School, and students enrolled in Advanced Business Management and Accounting attend at Hagerstown High School. Students in several other programs will complete work experiences during the year at various locations in the area. These sites are coordinated by the career program instructor. Students are responsible for providing their own transportation as necessary.

Pre-Enrollment for a First Year Program

Eight local school corporations work together to offer the courses that make up New Castle Career Center (NCCC). Students from each high school have an equal opportunity to apply for and participate in career programs. Students obtain a pre-enrollment form from their counselor at the designated time, complete the form, and return it to their counselor. Each pre-enrollment form must be approved by the principal, counselor, and career program instructor before the student is enrolled in a career program. All students participate in an interview with the career program instructor prior to acceptance. Credits and grades earned in career programs become part of the student's home school record.

Pre-Enrollment for a Second Year Program

Students will receive the second year pre-enrollment form from their career program instructor. The form must be completed, including parent signature, and returned to the career program instructor. The form will be sent to the home school counselor with the recommendation of the career program instructor regarding second year participation. The form must be approved by the home school counselor and principal. Students may take one year of two complimentary programs rather than two years of a single program. Discuss your career plan with your guidance counselor prior to completing a first year pre-enrollment form for the second year. The student will be given preferred placement, with the recommendation of the counselor.

Early College Option

Seniors participating in career programs may also take advantage of the Early College option offered in partnership between New Castle Career Center and Ivy Tech Community College. Students who meet the requirements at Ivy Tech Community College, including placement testing, are eligible to take core academic courses at Ivy Tech Community College in New Castle. Courses currently include Introduction to Psychology, Introduction to Sociology, Fundamentals of Public Speaking, and English Composition I. The courses are general education courses required for many certificate and degree programs across different colleges. Anatomy and Physiology I and II may be added to the core courses. Classes may change in order to meet the needs of students. With the exception of Anatomy and Physiology, courses offered are part of the Core Transfer Library. Visit transferIN.net to learn more about transferring credits between colleges. The Early College Option is offered at little or no cost to the student. For more information, see your guidance counselor.

Dual College Credits

Many career programs offer dual college credit opportunities. New Castle Career Center has dual credit agreements with Ivy Tech Community College, Vincennes University, and Purdue University. The benefits of dual credits include:

1. Enriches the high school curriculum.
2. Introduces high school students to the rigors of college credit courses.
3. Helps students in the transition from high school to college.
4. Helps ensure the students will graduate from college on time.
5. Helps to satisfy the requirements for the Indiana Core 40 with Academic Honors and/or Technical Honors diplomas.
6. Helps parents and students assess the student's readiness for college.
7. **Significantly reduces the cost of a college education - most dual credits are offered to the student at no cost or at a significantly reduced cost.**

The number of dual credits available and the awarding institution varies by career program. Enrollment is required for all dual credits, and placement testing and/or pre-requisite courses are required for some. Placement testing is completed at NCCC or at the home high schools. Test scores determine dual credit eligibility for those career programs that require placement testing. To receive dual credits, students must successfully complete the work required. Students may be dropped from dual credit eligibility due to insufficient progress in a course. Career program instructors provide guidance on dual credit procedures, and all paperwork is completed through NCCC. In some cases, a fee may apply. The ability to transfer dual credits is dependent upon the receiving institution. Visit transferIN.net to learn more about transferring credits between colleges. Dual credits offered in each career program are subject to change at any time. For the most current information available, contact New Castle Career Center.

Industry Certification

Many career programs offer opportunities for students to earn industry certification. The certification process documents skills obtained by students within a career area. The skills and certification are recognized by employers and provide students with an advantage when going on into the workforce and/or to postsecondary education. The industry certifications available vary by career program. Testing is required for all industry certifications. Students must successfully complete all requirements to receive certification. In some cases, a fee may apply. Industry certifications offered in each career program are subject to change at any time. For the most current information available, contact New Castle Career Center.

Academic & Technical Honors Diplomas

Students who participate in the career programs may be eligible to earn both Academic Honors Diplomas (AHD) and Technical Honors Diplomas (THD), depending on the courses they have successfully completed throughout high school and meeting all other diploma requirements.

For more information on using credits and credentials earned in career programs to meet requirements for Academic and Technical Honors Diplomas, see your guidance counselor or contact New Castle Career Center.

CAREER PROGRAM DESCRIPTIONS

Advanced Business Management & Accounting

1-Year Program

Advanced Business Management prepares students to plan, organize, direct, and control the functions and processes of a firm or organization and to perform business-related operations. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Individual experiences will be based upon the student's career and educational goals. Accounting introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision making.

Upon completion of this program, students continue their education in 2 and 4-year degree programs at the postsecondary level as well as enter employment in a variety of business-related fields.

Location: *Hagerstown High School*
Dual College Credits: *BUSN105 – Principles of Management*
ACCT118 – Financial Concepts for Accounting

QR: **Advanced Business Management & Accounting** satisfies the "Mathematics or quantitative reasoning course" in each year of high school requirement for the CORE 40, AHD, and THD diplomas.

Advanced Manufacturing I & II (CONEXUS HIRE)

1 or 2-Year Program

Advanced Manufacturing is a course that includes classroom and laboratory experiences in two broad areas: Industrial Technology/Software Controls and Manufacturing Trends. Industrial Technology and Software Controls covers wiring and schematic diagrams used to design, install, and repair electrical/electronic equipment such as wireless communication devices, programmable controllers. Course content will include basic theories of electricity, electronics, digital technology, and basic circuit analysis. Activities include experiences in: soldering; use of an oscilloscope, meters, signal generators and tracers; bread boarding; circuit simulation software; and troubleshooting. Understanding and using the underlying scientific principles related to electricity, electronics, circuits, sine waves, and Ohm's Law are integral to this course. Manufacturing Trends covers basic concepts in manufacturing operations and plant floor layout in the production environment. Applications of Computer Numerical Control (CNC), and lathe and turning operations are developed as a foundation for machining operations. Coordinate system concepts are introduced as relevant to machining processes, as well as fluid and mechanical power, welding, and lean manufacturing. Fluid power concepts will include hydraulic components and circuits, laws and principles, fluid power controllers, and the construction of systems. In the mechanical power portion of the course, students will learn about machine specifications, basic forces, friction, simple machines, motors, and motor controls. Students will also be introduced to lean manufacturing where they will study concepts including: lean goals, product quality, eliminating waste, cost effectiveness, lean concepts, resource planning, continuous improvement, and the various advantages of lean manufacturing. This course includes MSSC concepts required to earn MSSC certification.

Location: *New Castle Career Center*
Dual College Credits: *IvyT111 – Student Success in University Transfer*
MPRO100 – Introduction to Plant floor and CNC
MPRO106 – Introduction to the Workplace and Safety

Broadcasting I & II

1 or 2-Year Program

Broadcasting provides students experience in the areas of radio announcing, writing, news, sports, production, recording studio engineering, and music programming on the award-winning student station, Classic Hits 90.7 FM, WKPW. Daily duties include on-air shifts, hourly news and sportscasts production, and weekly production assignments. Year 2 students are assigned more complex, independent projects and are expected to fill lead on-air roles.

Upon completion of this program, students continue their education in 2 and 4-year degree programs at the postsecondary level as well as enter employment in the communications field at radio stations, TV stations, and production companies.

Location: *Knightstown Community High School*
Dual College Credits: *MDIA120 – Audio Production I*

Building Trades I & II

1 or 2-Year Program

Building Trades provides experiences related to residential home construction and commercial renovation. Students learn basic techniques in framing and rough carpentry, siding and roofing, door and window installation, wiring, drywall hanging and finishing, flooring installations, and finish carpentry. Students are also introduced to concrete/foundation work, heating/cooling, and plumbing. In year 2, students are assigned more complex, independent projects and lead work teams. All aspects of safety are stressed, and students are required to complete online OSHA 10-hour Construction Industry certification. Students are expected to work on scaffolding and on roof levels as well as outside in various weather conditions.

Upon completion of this program, students continue their education in 2 and 4-year degree programs at the postsecondary level or enter employment in one of the many construction fields. Students also enter apprenticeship programs for specific construction trades.

Location: *New Castle Career Center & current construction site*
Industry Certifications: *OSHA Safety certification*
Dual College Credits: *BCT1100 – Intro to Construction Technology*
BCT1101 – Intro to Carpentry, Part I
BCT1102 – Intro to Carpentry, Part II
BCT1130 – Intro to Electrical

Computer Operations – Computer Tech Support

1-Year Program

Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Lab work includes the diagnosis and repair of computers and components for outside clients. High-performing students may have the opportunity to complete internships with local companies. Students entering this program are expected to have significant computer knowledge. This program can be combined with Computer Operations – Networking Fundamentals to create a 2-year experience.

Upon graduation, students continue their education at the postsecondary level in both 2 and 4-year degree programs related to computer and information technology. Others may gain employment in local computer technology and support businesses.

Location: *New Castle Career Center*
Industry Certifications: *Microsoft Technology Associate (MTA)*
Dual College Credits: *INFM109-S2 Informatics Fundamentals*

Computer Operations – Networking Fundamentals

1-Year Program

Networking Fundamentals students learn the skills needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs, and creating wireless LANs. High-performing students may have the opportunity to complete internships with local companies. Students entering this program are expected to have significant computer knowledge. This program can be combined with Computer Operations – Computer Tech Support to create a 2-year experience.

Upon graduation, students continue their education at the postsecondary level in both 2 and 4-year degree programs related to computer and information technology. Others may gain employment in local computer technology and support businesses.

Location: *New Castle Career Center*
Industry Certifications: *Microsoft Technology Associate (MTA)*
Dual College Credits: *INFM105-S2 Hardware/Software Support*

Cosmetology I & II

2-Year Program – must initially enroll as a Junior and continue as a Senior

Students complete a 1500-hour apprenticeship program identified by the Indiana Cosmetology Licensing Board and are prepared to take the state licensing examination. Students must attend Cosmetology I and II to accumulate the hours required, and students must be 18 years old to take the examination. Specific classroom lessons and lab activities are required to meet the licensing requirements. Students demonstrate proficiency in cutting hair, styling, giving perms, shampooing, coloring hair, providing skin and scalp care, conducting business management, providing good customer relations, and performing other skills required for licensing.

Due to State Board requirements, students must attend class four (4) hours per day totaling 20 hours per week. Students must attend a two-week extended session to complete the required apprenticeship hours. Upon completing this program and passing the State examination, students become licensed and are prepared to be employed in a salon. Students also pursue 2 and 4-year postsecondary degrees in business, fashion design, or related fields and work their way through college.

Location: *New Castle Career Center*
Dual College Credits: *COSM100 – Cosmetology I*
COSM150 – Cosmetology II
COSM200 – Cosmetology III
COSM250 – Cosmetology IV
Industry Certification: *Indiana State Board of Cosmetology License*

Culinary Arts I & II

1 or 2-Year Program

A variety of opportunities and experiences are used to expose students to the areas of culinary arts and hospitality management. Students gain experience in food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; food preparation techniques; menu planning; food cost; use of tools and equipment; and serving. In year 2, students are assigned more complex, independent projects and lead work teams. Students showcase their skills when preparing and serving food for events and functions throughout the school year.

Students completing this program may continue their education in 2 and 4-year postsecondary degree programs or gain employment in a variety of food service occupations.

Location: *New Castle Career Center*
Dual College Credits: *HOSP101 – Sanitation and First Aid*
HOSP102 – Basic Food Theory & Skills
HOSP104 – Nutrition
HOSP105 – Introduction to Baking
Industry Certification: *ServSafe Certification*
CPR
Culinary Arts Certification (Pre-PAC)

Dental Careers I & II

2-Year Program – must initially enroll as a Junior and continue as a Senior

The Dental Careers program provides students with opportunities to learn skills needed when assisting dentists with chair-side procedures and daily office responsibilities. Students must complete both Dental Careers I and II in order to cover the curriculum and standards. Junior students enroll in Dental Careers I with the intention of completing both years. Due to space limitations, senior students are generally not accepted in the Dental Careers I program. Areas of instruction include tooth identification and terminology, disinfection/sterilization, oral health, dental materials, instrumentation, office records, digital x-rays, radiation safety, hygiene, office management software, and OSHA guidelines. Dental Careers I and II students complete clinical experiences in local dental offices. Students participate in the second year of the program to receive advanced training in expanded dental assisting and additional experience in private practices. Once students complete 2 years of Dental Careers and 2 years of work experience, they are eligible to test for their CDA (Certified Dental Assistant).

Students completing this program may pursue 2 and 4-year postsecondary degrees related to the dental field or may become employed in dentist offices or dental labs.

Location: *New Castle Career Center*
Dual College Credits: *IVYT101 – First Year Seminar*
HSHL101 – Medical Terminology
Industry Certification: *Indiana Radiology Provisional License*

Early Childhood Education (Preschool Interns)

1-Year Program

Early Childhood Education prepares students for employment in early childhood education and related services and provides the foundations for study in postsecondary education that leads to other child-related careers. The program covers planning and guiding developmentally appropriate activities for young children, guidance and discipline practices, basic health and safety principals, and an overview of the management and operation of licensed child care facilities. Preschool Interns take turns teaching the "Shining Stars" Preschool in the classroom. Students also gain experiences in one or more child care/preschool lab sites. This program can be combined with Education Professions to create a 2-year experience.

Students completing this program continue their education in 2 and 4-year postsecondary programs or begin a career as an assistant in a pre-school or as a school aide.

Location: *New Castle Career Center & local education sites*
Dual College Credits: *ECED101 – Health, Safety & Nutrition*
ECED100 – Intro to Early Childhood Education
Industry Certification: *Early Childhood Education Pre-PAC*

Education Professions (Teacher Interns)

1-Year Program

Education Professions provides opportunities to explore careers in elementary school education and provides a foundation for study in postsecondary education that leads to teaching and related careers. The program includes planning, writing, and implementing developmentally appropriate lesson plans; completing classroom observations; applying INTASC standards; applying safety and ethical principles when working with children; investigating licensing requirements related to careers in education; and enhancing employability skills related to knowledge and dispositions of elementary teachers. Teacher Interns are placed in an elementary school at their preferred grade level, when possible, by their career program instructor. This program can be combined with Early Childhood Education to create a 2-year experience.

Students completing this program continue their education in 2 and 4-year postsecondary programs to be eligible for a teaching license or begin a career as a teacher aide in a school.

Location: *New Castle Career Center & local education sites*

Dual College Credits: *EDUC101 – Intro to Teaching*
Industry Certification: *Education Fundamentals*

EMT / Public Safety

1-Year Program – Seniors Only

The EMT / Public Safety program exposes students to the areas of law enforcement, firefighting, corrections, and probation and prepares students to become EMTs (Emergency Medical Technicians). EMT certification is recognized in a variety of public safety related careers and required in firefighting. The exposure to a variety of areas will help students discover the career area they want to pursue.

During the first semester, students will complete the EMT training. Students will learn to recognize the seriousness of the patient's condition, use the appropriate emergency care techniques and equipment to stabilize the patient, and transport them to the hospital. This course also addresses the handling of victims of hazardous materials accidents. It covers theories, techniques, and operational aspects of pre-hospital emergency care with the scope and responsibility of the basic emergency medical technician. It requires laboratory practice and clinical observation in a hospital emergency room and ambulance. Students will spend the second semester rotating among different career areas, including law enforcement, firefighting, corrections, and probation. Experiences will include job shadowing professionals in the field. Some of the experiences will require students to participate during the evenings and on weekends. Students will be required to pass a criminal history check.

Location: *REC (Raintree Education Center) and other clinical sites*
Industry Certification: *IN Department of Homeland Security EMT License*

Facility Maintenance I & II

Multiple Year Program

Students perform routine care and maintenance activities in commercial and institutional buildings. Activities include classroom and laboratory experiences concerned with all phases of the care and cleaning of buildings, fixtures, and furnishings, including all types of building interiors such as linoleum, plastic, terrazzo, tile, and wood floors; rugs; and plastic, wood panel, paint and synthetic wall coverings. Emphasis is placed on the selection and use of professional supplies needed for care and maintenance as well as OSHA safety standards and appropriate guidelines when working with various chemicals and processes.

Students completing this program may pursue careers in professional cleaning, housekeeping, and janitorial maintenance.

Location: *New Castle Career Center*

Finance Academy I & II

1 or 2-Year Program

The Finance Academy class gives high school students an opportunity to learn and prepare for college & careers in business and finance. Students study the stock market, personal finances, accounting, and entrepreneurship. Emphasis is placed on a college curriculum that is directly linked to the business world. This class is designed to attract students who have an interest in today's global market as it applies to business and finance. Students in the Finance Academy generally have a strong foundation in mathematics and plan to pursue business, finance or economics at the post high school level. Students will leave this program with communication skills and skills that are valuable in today's global business arena.

Location: *New Castle Career Center*

Graphic Design I & II

1 or 2-Year Program

Graphic Design students plan, analyze, and create visual solutions to a variety of real world communication challenges. They combine imagery and visual text to effectively deliver messages for a variety of purposes, including advertising, displays, promotional materials, and instructional manuals. They are able to create strong page layout compositions using the foundation principles of design, color theory, and typography. Students gain experience in Adobe Creative Suite 6 industry standard software, including InDesign, Illustrator, and Photoshop. Second-year students have the opportunity to work on advanced projects with advanced software, including Flash and After Effects. Second-year students also work on completing their portfolios for presentation to postsecondary institutions and employers. Students entering this program are expected to have significant computer knowledge.

Students completing this program may pursue 2 and 4-year postsecondary degrees related to graphic design or they may pursue employment opportunities in a variety of graphic communications careers.

Location: *New Castle Career Center*
Industry Certification: *Adobe Illustrator*
Adobe Publisher

Health Careers – AM & PM

1-Year Program – Seniors Only

Students spend time in the classroom as well as participating in clinical rotations at various health care facilities in the community. Clinical experiences vary depending on the student's career goal and training site availability. They include several areas of nursing, imaging, laboratory, physical therapy, nuclear medicine, respiratory therapy, physical therapy, dietary, mortuary science, pharmacy, and medical records. Classroom instruction includes human anatomy and physiology, medical terminology, ethics, CPR, and practical skills applicable to all health-related occupations.

Students completing this program usually continue their education in 2 or 4-year postsecondary degree programs or special medical licensing programs at the postsecondary level.

Location: *REC (Raintree Education Center), Henry County Hospital, & clinical sites*
Dual College Credits: *HLHS100 – Intro to Health Careers*
HLHS107 – CAN Preparation
HLHS101 – Medical Terminology
HLHS111 – Health & Wellness for Life
Industry Certification: *CPR/AED Professional Rescuer*
Indiana State CNA
Pharmacy Technician
NCHSE

Interdisciplinary Cooperative Education (ICE)

1-Year Program – Seniors Only

The Interdisciplinary Cooperative Education (ICE) Program provides students an opportunity to learn career related skills through on-the-job training with a local employer. The ICE program is made up of two components. The related class meets up to 3 hours per week, and the work experience is 15 or more hours per week. Some class work may be completed online. Work experiences take place during school time as well as after school hours. Work experiences are related to a student's career interests. Students attend their home school for one-half day to complete graduation requirements.

Students completing this program may remain at the businesses where they have gained work experience through the program, move on to other employment, and/or continue their education at the postsecondary level in 2 or 4-year degree programs.

Location: *New Castle Career Center & local work site*
Dual College Credits: *IVYT111 – First Year Seminar*

Machine Trades I & II

1 or 2-Year Program

Students in the machining program prepare for in-demand jobs in the manufacturing industry. The Machine Trades program provides instruction and laboratory experience in standard and manual machining, blueprint reading, formulas to determine the proper speed and feed of machines, and the operation and maintenance of common machines, including mills, lathes, and grinders. The program also provides exposure to computer numerical controlled (CNC) machining. New Castle Career Center works with an industry advisory committee and Ivy Tech Community College to provide a curriculum focused on skills needed in industry.

Students completing this program generally continue their education at the postsecondary level in 2 and 4-year degree programs or begin their careers in local machining businesses. Students also enter apprenticeship programs for specific machining-related trades.

Location: *New Castle Career Center*

Dual College Credits: *MTTC101 – Machine Tool Technology*
MTTC102 – Turning Processes I
MTTC103 – Precision Machining Technology
MTTC106 – Machine Tool Technology
IVYT111 – Student Success in University Transfer
MTTC105 – Abrasive Processes I
MTTC107 – CNC Set Up & Operations
MTTC208 – CNC Mill Programming
MTTC209 – CNC Lathe Programming

QR: *Machine Trades I and II satisfies the “Mathematics or quantitative reasoning course” in each year of high school requirement for the CORE 40, AHD, and THD diplomas.*

Pre-Engineering I & II

1 or 2-Year Program

Pre-Engineering students learn engineering principles through project-based learning. A significant amount of time is spent identifying and solving industrial design and function issues. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities which include building design, robotics, CNC machining, and automated manufacturing. Students choose to specialize in aerospace, robotics, motor sports, architecture, or a variety of other areas, and student teams compete in contests designed as culminating activities where they perform specific tasks and complete problem-solving exercises.

Students completing this program continue their education in 2 and 4-year engineering and technology degree programs at the postsecondary level.

Location: *New Castle Career Center*

Dual College Credits: *DESN101 – Intro to Technology*
DESN113 – Computer Aided Design
DESN104 – Mechanical Graphics

Industry Certification: *Autodesk Inventor*

QR: *Pre-Engineering II satisfies the “Mathematics or quantitative reasoning course” in each year of high school requirement for the CORE 40, AHD, and THD diplomas.*

Strategic Marketing

1-Year Program

Strategic Marketing provides an introduction to the scope and importance of marketing in a global economy. Projects are focused on sports and entertainment marketing. Emphasis is placed on oral and written communication, mathematical applications, problem solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing information management, pricing, and product/service management. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, sociology, and economics. The

relationship between consumer behavior and marketing activities will also be studied.

Students completing this program as juniors may enroll in other career programs as seniors that compliment the skills learned. This program can be combined with the Advanced Business Management and Accounting program to create at 2-year experience. Seniors completing the program may go directly into the workforce in a variety of related careers or continue their education at the postsecondary level in 2 or 4-year degree programs.

Location: *Tri High School*
Dual College Credits: *BUSN101 – Intro to Business*
MKTG101 – Principles of Marketing

Veterinary Careers I & II

1 or 2-Year Program

Students are provided skills and experience in the veterinary field through classroom work, an on-site lab, job-shadowing, and internships. Experiences can be tailored from small to large animal interests. The on-site lab provides grooming services to the public as well as a vaccination clinic twice a year. Curriculum includes basic animal care, veterinary/medical terminology, anatomy and physiology, lab techniques and procedures, nutrition, grooming techniques, CPR and first aid, and practical skills applicable to the industry. Classroom visits by those in the industry and off-site exploration add to the educational experience. The number of second year students accepted depends on the number of clinical sites available. In addition to classroom work, second-year students complete internships at local animal care sites and earn clinical hours required for certification.

Students completing the program usually continue their education in 2 and 4-year programs in veterinary technology or other related careers. Completing this program has met the university requirement of documenting one year of experience caring for animals required to enter veterinary medicine programs.

Location: *New Castle Career Center*
Dual College Credits: *AGR103 – Animal Science*
AGR107 – Advanced Animal Science
HIMT110 – Medical Terminology
Industry Certification: *Veterinary Assistant Certification*

Welding Technology I & II

1 or 2-Year Program

Students develop skills in the basic welding areas including shielded metal (SMAW), gas metal arc (GMAW or MIG), gas tungsten arc (TIG), oxy-fuel, fuel cutting manual, and semi-automatic. Projects and welding exercises are utilized to teach students how to weld various kinds of metals in 4 basic welding positions - flat, vertical, horizontal, and overhead. Classroom instruction includes blueprint reading, metallurgy, theory of the various types of welding, and machine setup and use. Students apply the various welding techniques to design and construct projects. Students in year 2 are able to complete additional AWS certifications and intern at local companies.

Upon completion of this program, students pursue 2 and 4-year postsecondary degrees such as welding technology and welding engineering. Students also enter employment in construction and fabrication businesses and enter apprenticeships that identify welding as a related career.

Location: *New Castle Career Center*
Dual College Credits: *WELD100 – Welding Technology I*
WELD108 – Shielded Metal Arc Welding I
WELD206 – Adv. Shielded Metal Arc Weld II
WELD203 – Pipe Welding I
IVYT111 – Student Success in University Transfer
WELD207 – Gas Metal Arc Welding
WELD208 – Gas Tungsten Arc Welding
WELD210 – Welding Fabrication I
WELD272 – Adv Gas Metal Arc Weld II
WELD273 – Adv Gas Tungsten Arc Welding II
Industry Certification: *American Welding Society Sense Level I Certification*