Effective with the 2019-2020 school year, the new Indiana Graduation Pathways allow MCCSC students to demonstrate their preparation for their life after high school - college, a job, the military, advanced training, and more.

The pathways provide every MCCSC student with:

- knowledge and engagement of individual career interests and career options
- a strong foundation of academic and technical skills
- the skills needed to be successful in whatever they choose to do after high school

In conversation with your guidance counselor, customize your education by completing an option in each of the three categories

1 **EARN A DIPLOMA**—select the course requirements for diploma designation.

   General OR Core 40 OR Academic Honors OR Technical Honors

2 **EMPLOYABILITY SKILLS**—select one option to show your employability skills.

   Project-Based Learning
   School-approved, authentic project that leads to sustained inquiry around a challenging problem.

   Service-Based Learning
   School-approved, on-going service that connects to your coursework.

   Work-Based Learning
   School approved, work-based partnerships that use the concepts, skills, and dispositions from coursework.

3 **POST-SECONDARY READY**—select one option to show you are ready for life after high school.

   Honors Diploma
   Fulfill the requirements to earn an Academic or Technical Honors Diploma

   Industry Credential and Workforce Readiness
   Participate in at least one option:
   - State & industry recognized Credential or Certification
   - State, federal, or industry recognized apprenticeship
   - Career Technical Education Concentrator (2 advanced courses)

   Pre-College Credit
   Complete at least three:
   - Dual credit courses and earn a “C” average or higher
   and/or
   - Advanced Placement (AP) exams with a score of 3 or higher

   College and Career Readiness Test
   Use at least one option to meet college-ready benchmarks or placement qualification

**SAT** (in English and math)
   English – 480
   Math – 530

**ACT** (in two of the four subjects: English or reading and math or science)
   English – 18 or Reading – 22
   AND
   Math – 22 or Science – 23

**ASVAB** (min. score in one area)
   31 Army
   31 Marines
   35 Navy
   36 Air Force
   45 Coast Guard
THE PROFILE OF AN MCCSC GRADUATE

Our mission at MCCSC is to empower students to maximize their educational success to become productive, responsible global citizens. We do that by ensuring our graduates are individuals who:

**THINK INTERNATIONALLY**
- Internationally-minded
- Critical-thinking
- Globally literate
- Socially & emotionally aware
- Culturally responsive
- Technologically savvy
- Financially literate

**THINK CRITICALLY**

**ACT GLOBALLY**

**INVEST LOCALLY**

**COMMUNICATE EFFECTIVELY**

**CREATE DIGITALLY**

**ENGAGE**

We engage our students to be:
- Internationally-minded
- Critical-thinking
- Globally literate
- Socially & emotionally aware
- Culturally responsive
- Technologically savvy
- Financially literate

**EMPOWER**

We empower our students to be:
- Self-determined
- Locally-invested
- Through service-learning
- Internships
- Work-based learning
- Capstone projects

**EDUCATE**

We educate our students to have:
- Global competency
- A world language
- Problem-solving skills
- Interdisciplinary solutions
- Collaborative approaches
- Effective communication
**Transformative**
Implements learning programs that equip students for the adults they wish to become.

**Inclusive**
Creates a learning environment in which every child can utilize their knowledge and talents to realize the passions that will guide them through life.

**Whole Child Focused**
Focused on each child, in each school being healthy, safe, engaged, supported, challenged, and life ready.

**Comprehensive**
Provides students with repeated, real-life experiences that develop their cognitive, emotional, and behavioral dimensions to their fullest.
High School Pathway Guide

Project-based Learning
- ALL teachers trained in PBL over the next 5 years
- A NEW PBL Learning Lab for ongoing and advanced training

STEAM and Hands-on Learning
- Maker Spaces in ALL middle schools and ASE
- Expanded activities throughout the corporation including NEW pathways in Interior Design, Computer Science, Life Science, Cybersecurity

College and Career Awareness
- EXPANDED opportunities through Tour of Opportunity, mock interviews, jobshadowing, internships, and career panels/speakers
- College and Career Centers for EACH high school

Entrepreneurship
Middle School
High School
Providing real-world experiences creating products and businesses

Community and Business Partnerships
- Expanded internships with area businesses
- Master classes taught by industry professionals
- Networking opportunities
EARN COLLEGE CREDITS DURING HIGH SCHOOL

Indiana Next Level Programs of Study

Next Level Programs of Study will provide students the opportunity to complete up to one year’s worth of a postsecondary program through a four (4) course sequence. The first three courses of each program of study will consist of a principles course and two advanced courses required to earn CTE Concentrator status. The three courses may be taken individually or can be completed concurrently for programs that are able to offer extended training sessions. Some programs of study will also include an optional capstone course that may be taken for up to 6 credits.

The MCCSC offers students 29 of the 53 Next Level Programs of Study.

**PRINCIPLE COURSE:** 2 CREDITS

**CONCENTRATOR A COURSE:** 2 CREDITS

**CONCENTRATOR B COURSE:** 2 CREDITS

**CAPSTONE COURSE:** 2 -6 CREDITS

EARN CTE CONCENTRATOR STATUS BY COMPLETING THESE 3 COURSES
The Indiana College Core is a block of 30 credit hours of general education college-level coursework that transfers seamlessly among ALL Indiana public colleges and universities.

MCCSC high schools have partnered with Ivy Tech and/or Indiana University to offer these courses to students through dual credit and/or Advanced Placement (AP) classes.

The Indiana College Core offers significant cost savings for students and families.

Students can earn the Indiana College Core through dual credit in high school for thousands less than earning the same credits at a two-or four-year institution.

<table>
<thead>
<tr>
<th>Cost Comparison</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than $750 to earn Indiana College Core Through Dual Credit</td>
<td></td>
</tr>
<tr>
<td>$4,200-$5,700 at Two-Year Institutions</td>
<td></td>
</tr>
<tr>
<td>$7,200-$10,500 at Four-Year Institutions</td>
<td></td>
</tr>
</tbody>
</table>

Who should earn the Indiana College Core?

- **High school students who are planning to enroll in college after graduation.** Students should talk to their school counselors about whether the Indiana College Core is the right choice for them based on availability at their high school, their expected major, and the colleges where they might enroll.

- **Hoosiers entering college who aren’t sure what major to pursue.** The Indiana College Core is a good option for Hoosiers who are entering college at an Indiana public institution who aren’t sure which major to declare. Because the Core is 30-credit hours of general education courses, it will transfer into and support students on their way to most degrees.

- **Make sure to talk to your high school counselor or college advisor.** Talking to an expert at your school will help you make the best, most relevant and efficient course selections—whether you’re enrolling in high school or college.

For more information about the Indiana College Core (ICC), visit transferIN.net.
Pathways available by school

Pathways that are available at each school are listed below. Some require enrollment at Hoosier Hills to complete all the courses. Students from any school can attend Hoosier Hills for half days during their junior and senior year if scheduling allows.

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Pathway</th>
<th>School 1</th>
<th>School 2</th>
<th>School 3</th>
<th>School 4</th>
<th>School 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Manufacturing</td>
<td>Industrial Maintenance-Mechanical</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Welding Technology</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture, Food, and Natural Resources</td>
<td>AgriScience</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Horticulture</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Natural Resources</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Architecture and Construction</td>
<td>Construction Trades: Carpentry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Business Management and Administration,</td>
<td>Business Administration</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Marketing, and Finance</td>
<td>Finance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Marketing &amp; Sales</td>
<td></td>
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<td>✓</td>
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<tr>
<td>Education and Training</td>
<td>Education Professions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>Biomedical Sciences &amp; Technology</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Emergency Medical Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Medical Assistant</td>
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<td>✓</td>
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<tr>
<td></td>
<td>Pre-Nursing Healthcare Specialist</td>
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<tr>
<td>Cluster</td>
<td>Pathway</td>
<td>Academy of Science &amp; Entrepreneurship</td>
<td>Bloomington Graduation School</td>
<td>Bloomington High School North</td>
<td>Bloomington High School South</td>
<td>Hoosier Hills Career Center</td>
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<tr>
<td><strong>Hospitality and Tourism</strong></td>
<td>Culinary Arts</td>
<td>●</td>
<td>●</td>
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<tr>
<td></td>
<td>Hospitality Management</td>
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<td></td>
<td>Nutrition Science</td>
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<tr>
<td><strong>Human and Social Services</strong></td>
<td>Human Services</td>
<td></td>
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<td></td>
<td>✓</td>
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<tr>
<td><strong>Information Tech</strong></td>
<td>Information Technology Operations</td>
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<tr>
<td></td>
<td>Networking</td>
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<tr>
<td></td>
<td>Software Development</td>
<td>✓</td>
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<tr>
<td><strong>Law, Public Safety, Corrections, and Security</strong></td>
<td>Fire &amp; Rescue</td>
<td></td>
<td></td>
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<td></td>
<td>✓</td>
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<tr>
<td><strong>STEM</strong></td>
<td>Design Technology</td>
<td></td>
<td></td>
<td></td>
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<td>✓</td>
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<tr>
<td></td>
<td>Engineering</td>
<td>✓</td>
<td></td>
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<td></td>
<td>✓</td>
</tr>
<tr>
<td><strong>Transportation</strong></td>
<td>Auto Collision Repair</td>
<td></td>
<td></td>
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<td></td>
<td>✓</td>
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<tr>
<td></td>
<td>Automotive Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td><strong>Other Pathways</strong></td>
<td>Civic Arts Pathway</td>
<td>✓</td>
<td>✓</td>
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</tr>
</tbody>
</table>
### INDUSTRIAL MAINTENANCE-MECHANICAL

#### Industrial Maintenance-Mechanical

<table>
<thead>
<tr>
<th>Principles</th>
<th>Concentrator A</th>
<th>Concentrator B</th>
<th>Capstone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Advanced Manufacturing (7108)</td>
<td>Advanced Manufacturing Technology (7103)</td>
<td>Industrial Maintenance Fundamentals (7104)</td>
<td>Industrial Maintenance Capstone (7261)</td>
</tr>
</tbody>
</table>

#### Principles of Advanced Manufacturing

Principles of Advanced Manufacturing is a course that includes classroom and laboratory experiences in industrial technology and manufacturing trends. Domains include safety and impact, manufacturing essentials, lean manufacturing, design principles, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

#### Advanced Manufacturing Technology

Advanced Manufacturing Technology introduces manufacturing processes and practices used in manufacturing environments. The course also covers key electrical principles, including current, voltage, resistance, power, inductance, capacitance, and transformers, along with basic mechanical and fluid power principles. Topics include types of production, production materials, machining and tooling, manufacturing planning, production control, and product distribution. Students will be expected to understand the product life cycle from conception through distribution. This course also focuses on technologies used in production processes. Basic power systems, energy transfer systems, machine operation, and control will be explored. This course will use lecture, lab, online simulation, and programming to prepare students for Certified Production Technician Testing through Manufacturing Skill Standards Council (MSSC).

#### Industrial Maintenance Fundamentals

Industrial Maintenance Fundamentals introduces students to fundamental welding and machining skills. Students will be introduced to basic skills in welding, cutting and brazing, and machine tooling that are applicable in a wide variety of trade professions. Specifically, students will learn safe practices in oxy-fuel and arc welding processes along with experience in using turning, milling, and grinding applications.

#### Industrial Maintenance Capstone

The Industrial Maintenance Capstone course examines the procedures for the removal, repair and installation of machine components. The methods of installation, lubrication practices, and maintenance procedures for industrial machinery are analyzed. Additionally, the course may cover the mechanical components and electrical drives in a complex mechatronic system. By understanding the inner workings of the complete system, students will learn and apply troubleshooting strategies to identify, localize, and (where possible) correct malfunctions. Preventive maintenance of mechanical elements and electrical drives, as well as safety issues within the system, will be discussed. This course will use lecture, lab, online simulation, and programming to prepare students for C-210 Mechanical Power Systems I Certification through Smart Automation Certification Alliance (SACA).

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This Pathway is Offered to Students Who Attend:
Principles of Welding Technology

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a welder, technician, designer, researcher, or engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success.

Shielded Metal Arc Welding

This course involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal, and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards.

Gas Welding Processes

This is a course designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments, and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, fluxcore, and aluminum wire. Test plates will be made for progress evaluation. Schools will have the option to introduce students to both MIG and TIG welding rather than focusing solely on MIG welding.

Welding Technology Capstone

The Welding Technology Capstone course builds upon the knowledge and skills developed in Welding Fundamentals, Shielded Metal Arc Welding, and Gas Metal Arc Welding by developing advanced welding skills in Gas Tungsten Arc Welding (TIG), pipe welding, and fabrication. As a capstone course, students should have the opportunity to apply their knowledge and use skills through an intensive work-based learning experience.
AGRICULTURE, FOOD, & NATURAL RESOURCES

Agriculture, Food, and Natural Resources Career Information
Principles of Agriculture

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding of the role of agriculture in the U.S. and globally. Students will explore Agriculture, Food, and Natural Resource (AFNR) systems related to the production of food, fiber, and fuel and the associated health, safety, and environmental management systems. Topics covered in the course include animals, plants, food, natural resources, ag power, structures and technology, and agribusiness. Participation in FFA and Supervised Agricultural Experiences (SAE) will be an integral part of this course in order to develop leadership and career ready skills.

Animal Science

Animal Science is a two-semester course that provides students with an overview of the animal agriculture industry. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study may be applied to both large and small animals. Topics to be covered in the course include history and trends in animal agriculture, laws and practices, comparative anatomy and physiology of animals, biosecurity threats, and interventions relating to animal and human safety, nutrition, reproduction, careers, leadership, and supervised agricultural experiences relating to animal agriculture.

Plant & Soil Science

Plant and Soil Science a two semester course that provides students with opportunities to participate in a variety of activities including laboratory and field work. Coursework includes hands-on learning activities that encourage students to investigate areas of plant and soil science. Students are introduced to the following areas of plant and soil science: plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, soil tillage, and conservation.
**Food Science**

Food Science is a two semester course that provides students with an overview of food science and the role it plays in the securing of a safe, nutritious, and adequate food supply. A project-based approach is utilized in this course, along with laboratory, team building, and problem solving activities to enhance student learning. Students are introduced to the following areas of horticulture science: food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, and issues and careers in the food science industry.

**Advanced Life Science: Animals**

Advanced Life Science: Animals is a two-semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to history and trends in animal agriculture as related to animal welfare, husbandry, diseases and parasites, laws and practices relating to handling, housing, environmental impact, global sustainable practices of animal agriculture, genetics, breeding practices, biotechnology uses, and comparative knowledge of anatomy and physiology of animals used in animal agriculture.

**Agricultural Research Capstone**

The Agricultural Research Capstone course includes extended laboratory, field, and literature investigations in one or more specialized agricultural science disciplines such as animal, plant, food, natural resources, biotechnology, engineering, etc. Students enrolled in this course will apply scientific applications, concepts, principles, and design processes to solve complex, real-world issues in agriculture. Students will become familiar with laboratory procedures used in an educational, research, or industrial setting. Students will complete an end-of-course project and presentation, such as a scientific research paper, agriscience fair project, or some other suitable presentation of their findings.

**This Pathway is Offered to Students Who Attend:**

![Logos]
Principles of Agriculture

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding of the role of agriculture in the United States and globally. Students will explore Agriculture, Food, and Natural Resource (AFNR) systems related to the production of food, fiber, and fuel and the associated health, safety, and environmental management systems. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, and agribusiness. Participation in FFA and Supervised Agricultural Experiences (SAE) will be an integral part of this course in order to develop leadership and career ready skills.

Horticultural Science

Horticulture Science is a two semester course that provides students with a background in the field of horticulture. Coursework includes hands-on activities that encourage students to investigate areas of horticulture as it relates to the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Students are introduced to the following areas of horticulture science: reproduction and propagation of plants, plant growth, growth-media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest, greenhouse management, floral design, and pest management. Students participate in a variety of activities including extensive laboratory work, usually in a school greenhouse.

Greenhouses & Soilless Production

Greenhouse and Soilless Production is a two-semester course that provides an overview of structural designs and uses of enclosed structures (greenhouses) to grow various plants and food. The course will focus on discussing different types of enclosed structures, management systems, and growing systems used to produce plants and food. The course will also present an overview of soilless growing systems such as hydroponics, aquaponics, aeroponics, and fogponics. Students will utilize the school greenhouse as part of this course.

Horticulture Capstone

The Horticulture Capstone course builds upon the knowledge and skills developed in the Principles, Horticultural Science, and Greenhouse and Soilless Production courses by developing advanced skills that students can apply to the field. As a capstone course, students should have the opportunity to apply their knowledge and use skills through an intensive work-based learning experience.
Principles of Agriculture

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding of the role of agriculture in the United States and globally. Students will explore Agriculture, Food, and Natural Resource (AFNR) systems related to the production of food, fiber, and fuel and the associated health, safety, and environmental management systems. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, and agribusiness. Participation in FFA and Supervised Agricultural Experiences (SAE) will be an integral part of this course in order to develop leadership and career ready skills.

Natural Resources

Natural Resources is a two semester course that provides students with a background in environmental science and conservation. Course work includes hands-on learning activities that encourage students to investigate areas of environmental concern. Students are introduced to the following areas of natural resources: soils, the water cycle, air quality, outdoor recreation, forestry, minerals, interrelationships between humans and natural systems, wetlands, wildlife, safety, careers, leadership, and supervised agricultural experience programs.

Forestry and Wildlife Management

Forestry and Wildlife Management is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to environmental and ecological impacts, forestry management, timber harvesting, tree production, and wood utilization, as well as environmental issues and career exploration.

Agricultural Research Capstone

Agricultural Research Capstone course includes extended laboratory, field, and literature investigations in one or more specialized agricultural science disciplines, such as animal, plant, food, natural resources, biotechnology, engineering, etc. Students enrolled in this course will apply scientific applications, concepts, principles, and design process to solve complex, real world issues in agriculture. Students will become familiar with laboratory procedures used in an educational, research, or industrial setting. Students will complete an end-of-course project and presentation, such as a scientific research paper, agriscience fair project, or some other suitable presentation of their findings.

This Pathway is Offered to Students Who Attend:

- Principles of Agriculture (7117)
- Natural Resources (5180)
- Forestry and Wildlife Management (7270)
- Agricultural Research Capstone (7262)
Principles of Construction Trades

Principles of Construction Trades covers the NCCER Core Curriculum and is a prerequisite to most other construction courses. Its modules cover topics such as basic safety, communication skills, and introduction to construction drawings; all basic skills needed to continue education in the construction program.

General Carpentry

General Carpentry covers the NCCER Carpentry Level 1 curriculum. Its modules cover topics such as building materials, fasteners, adhesives, hand and power tools, introduction to construction drawings, specifications, layout, floor systems, wall systems, ceiling joist and roof framing, basic stair layout, and introduction to building envelope systems.

Framing & Finishing

Framing and Finishing covers NCCER Carpentry Framing and Finishing Level 2. Its modules cover topics such as commercial drawings, roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, floor, and ceiling trim, and cabinet installation.

Construction Trades Capstone

This course covers NCCER Electrical Level 1. Its modules cover topics such as orientation to the electrical trade, electrical safety, introduction to electrical circuits, electrical theory, introduction to the National Electrical Code, device boxes, hand bending, raceways and fittings, conductors and cables, basic electrical construction drawings, residential electrical services, and electrical test equipment. This course also covers NCCER Carpentry Forms Level 3. Its modules cover topics such as rigging equipment, rigging practices, properties of concrete, reinforcing concrete, trenching and excavating, foundations, slab-on-grade, handling and placing concrete, vertical formwork, horizontal formwork, and tilt-up wall panels. Additionally, this course gives students the opportunity to work at a job site that is specifically related to their career objectives and provides on-the-job experience.
BUSINESS MANAGEMENT & ADMINISTRATION, MARKETING, & FINANCE

Finance and Accounting Career Information
Business Administration Career Information
Entrepreneurship and Marketing Career Information
Principles of Business Management (4562)

Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision making skills using spreadsheets, word processing, data management, and presentation software.

Business Administration Fundamentals (7143)

Business Administration Fundamentals describes the functions of managers, including the management of activities and personnel. Students will also study key marketing concepts including environmental analysis, marketing research, consumer behavior, segmenting, targeting, positioning, branding, product management, price strategy, supply chain management, integrated marketing communications, and market analytics. Students will be asked to apply management and marketing principles through the development of a business plan.

Accounting Fundamentals (4524)

Accounting Fundamentals 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.

Business Administration Capstone (7256)

This course may be available for the 2024-2025 school year.
Principles of Business Management

Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision making skills using spreadsheets, word processing, data management, and presentation software.

Personal Finance and Banking

Personal Finance and Banking emphasizes management of individual financial resources for growth and maintenance of personal wealth. The course covers home buying and mortgage financing, installment financing, life and health insurance, securities, commodities, and other investment opportunities. Students will gain an overview of the banking industry and the financial services provided by banks for individuals and businesses.

Accouting Fundamentals

Accounting Fundamentals 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.

Finance and Investment

Finance and Investment analyzes and synthesizes high-level skills needed for a multitude of careers in the banking and investment industry. Students learn banking, investments, and other finance fundamentals and applications related to financial institutions, business and personal financial services, investment and securities, risk management products, and corporate finance.

This Pathway is Offered to Students Who Attend:
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<th>Capstone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Business Management (4562)</td>
<td>Marketing Fundamentals (5914)</td>
<td>Strategic Marketing (5918)</td>
<td>Business Management Capstone (7201)</td>
</tr>
</tbody>
</table>

**Principles of Business Management**

Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision making skills using spreadsheets, word processing, data management, and presentation software.

**Marketing Fundamentals**

Marketing Fundamentals provides a basic introduction to the scope and importance of marketing in the global economy. Course topics include the seven functions of marketing: promotion, channel management, pricing, product/service management, market planning, marketing information management, and professional selling skills. Emphasis is marketing content but will involve use of oral and written communications, mathematical applications, problem-solving, and critical thinking skills through the development of an integrated marketing plan and other projects.

**Strategic Marketing**

Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics. The relationship between consumer behavior and marketing activities will be reviewed.

**Business Management Capstone**

Not currently offered.
## Principles of Teaching

This course provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation, and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined. A volunteer experience of a minimum of 20 hours is required for successful completion of this course.

## Child & Adolescent Development

Child and Adolescent Development examines the physical, social, emotional, cognitive, and moral development of the child from birth through adolescence with a focus on the middle years through adolescence. Basic theories of child development, biological and environmental foundations of development, and the study of children through observation and interviewing techniques are explored. The influence of parents, peers, the school environment, culture, and the media are discussed. An observation experience up to 20 hours may be required for completion of this course.

## Teaching & Learning

Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management.

## Education Professions Capstone

The Education Professions Capstone provides an extended opportunity for field experience to further apply concepts that have been presented throughout the pathway. Students will also have the opportunity to explore the topics of the exceptional child and literacy development through children’s literature. Students will gain a deeper understanding of inclusive teaching techniques along with policies, theories, and laws related to special education. Students interested in pursuing a career in Elementary Education are encouraged to also study the benefits of using children’s literature in the classroom.
Health Sciences Career Information
**Principles of Biomedical Sciences**

Principles of the Biomedical Sciences provides an introduction to this field through “hands-on” projects and problems. Student work involves the study of human medicine, research processes, and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

**Human Body Systems**

Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

**Medical Interventions**

Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments.

**Biomedical Innovations**

Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st Century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students have the opportunity to work on an independent project and may work with a mentor or advisor from a healthcare or postsecondary industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.
EMERGENCY MEDICAL SERVICES

Emergency Medical Services Career Information

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**Principles of Healthcare**

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student’s career objectives.

**Medical Terminology**

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

**Emergency Medical Tech**

This course is based on the training program developed by the Department of Transportation and the Emergency Medical Services Commission of Indiana. It covers theories, techniques, and operational aspects of pre-hospital emergency care within the scope and responsibility of the emergency medical technician (EMT). It requires laboratory practice and clinical observation in a hospital emergency room and ambulance. Successful completion of the course meets national requirements to test for certification as an NREMT.

**Healthcare Specialist Capstone**

The capstone course will provide healthcare students the opportunity to acquire additional knowledge and skills necessary to work in a variety of healthcare settings beyond a long term care facility, including hospitals, doctor’s offices, and clinics. Students can accomplish this goal by completing coursework that will cover topics such as Medical Law and Ethics, Electronic Health Records, and/or Behavioral Health. Students may also pursue additional healthcare certifications such as the CNA, Certified Clinical Medical Assistant (CCMA), or Phlebotomy in place of or in combination with the courses listed below.

This Pathway is Offered to Students Who Attend:
## Principles of Healthcare

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student’s career objectives.

## Medical Terminology

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

## Certified Clinical Medical Assistant

The Certified Clinical Medical Assistant course will prepare students for the National Healthcare Association CCMA exam. Instruction includes taking and recording vital signs, preparing patients for examination, patient education, and assisting the physician during the exam. The collecting and preparation of laboratory specimen and basic laboratory test will be covered. It prepares students for the administration of medication, venipuncture, ECG, and wound care. Provides a basic understanding of the clinical and administrative duties and responsibilities pertinent to medical offices. Includes instruction in medical correspondence and records, case histories of patients, filing, telephone procedures, appointment scheduling, receptionist duties, and processing mail. Written, verbal and nonverbal communication according to patient needs are covered as well as documentation and associated legal and ethical boundaries.

## Healthcare Specialist Capstone

The capstone course will provide healthcare students with additional knowledge and skills necessary to work in a variety of health care settings beyond a long term care facility, including hospitals, doctor’s offices and clinics. Students can accomplish this goal by completing coursework that will cover topics such as medical law and ethics, electronic health records, and/or behavioral health. Students are highly encouraged to pursue additional healthcare certifications such as the Certified Clinical Medical Assistant or Phlebotomy.

### This Pathway is Offered to Students Who Attend:

- [A]
- [B]
- [C]
- [D]
- [HHCC]
### Principles of Healthcare

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student’s career objectives.

### Medical Terminology

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including: appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

### Healthcare Specialist: CNA

The Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants with the knowledge, skills, and attitudes essential for providing basic care in extended care facilities, hospitals, and home health agencies under the direction of licensed nurses. The course will introduce students to the disease process and aspects of caring for a long-term care resident with dementia. Individuals who successfully complete this course are eligible to apply to sit for the Indiana State Department of Health (ISDH) certification exam for nursing assistants. This course meets the minimum standards set forth by the ISDH for Certified Nursing Assistant training and for health care workers in long-term care facilities.

### Healthcare Specialist Capstone

The capstone course will ensure healthcare students acquire additional knowledge and skills necessary to work in a variety of health care settings beyond a long term care facility, including hospitals, doctor’s offices, and clinics. Students can accomplish this goal by completing coursework that will cover topics such as medical law and ethics, electronic health records, and/or behavioral health. Students are highly encouraged to pursue additional healthcare certifications such as the Certified Clinical Medical Assistant or Phlebotomy.

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### This Pathway is Offered to Students Who Attend:

[Images of logos for related institutions]
HOSPITALITY & TOURISM

- Culinary Arts Career Information
- Hospitality Management Career Information
- Nutrition Science Career Information
Principles of Culinary & Hospitality

Principles of Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry. It introduces procedures for decision making which affects operation management, products, labor, and revenue. Additionally, students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment.

Nutrition

Nutrition students will learn the characteristics, functions, and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation.

Culinary Arts

Culinary Arts is designed to teach the necessary skills for proper recruiting, staffing, training, and management of employees at various levels. The course will help prepare the student for the transition from employee to supervisor. It will help the student evaluate styles of leadership, and develop skills in human relations and personnel management. This course will also present fundamentals of baking science, terminology, ingredients, weights and measures, and proper use and care of equipment. Students will produce yeast goods, pies, cakes, cookies, and quick breads.

Culinary Capstone

This course covers the techniques and skills needed in breakfast cookery as well as insight into the pantry department. Students will receive instruction in salad preparation, salad dressing, hot and cold sandwich preparation, garnishes, and appetizers. This course emphasizes the importance of meats, poultry, fish, and seafood in today's market. The course will cover grading and inspection, basic cuts, proper purchasing, receiving, storage, aging, preparation, and merchandising of meat, poultry, fish, and seafood. Content also provides students with practical knowledge and skills of restaurant operations. Knowledge and appreciation of the relationship between “front” and “back” of the house is emphasized through operation of an actual food service environment. Quality of service is emphasized through management of the guest experience.

This Pathway is Offered to Students Who Attend:
# HOSPITALITY

**Hospitality Career Management**

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<tr>
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<td>Nutrition (7171)</td>
<td>Hospitality Management (7172)</td>
<td>Hospitality Management Capstone (7237)</td>
</tr>
</tbody>
</table>

## Principles of Hospitality

Principles of Culinary and Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, as well as responsibilities in the food service and lodging industry. The course introduces procedures for decision making which affect operation management, products, labor, and revenue. Additionally, students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment.

## Nutrition

Nutrition students will learn the characteristics, functions, and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation. This course will engage students in hands-on learning of nutritional concepts such as preparing nutrient dense meals or examining nutritional needs of student athletes.

## Hospitality Management

Hospitality Management prepares students for employment in the hospitality industry. It provides the foundations for study in higher education that lead to a full spectrum of hospitality careers. This is a broad-based course that introduces students to all segments of hospitality, what it includes, and career opportunities that are available. It provides a survey of management functions, highlighting basic theories and facts, and exposes students to current trends and current events within the industry. Three major goals of this course are for students to be able to identify current trends in hotel and restaurant management, distinguish the difference between hospitality and tourism, and state differences in front of the house versus back of the house.
Principles of Hospitality

Principles of Culinary and Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry. It introduces procedures for decision making which affects operation management, products, labor, and revenue. Additionally, students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment.

Nutrition

Nutrition students will learn the characteristics, functions and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and how to apply those principles to menu planning and food preparation. This course will engage students in hands-on learning of nutritional concepts such as preparing nutrient dense meals or examining nutritional needs of student athletes.

Nutrition Planning & Therapy

This course presents the basic principles of nutrition; the role nutrients play in maintaining good health as well as their effect on certain disease states. Students will learn to modify diets to meet various nutritional needs and to plan menus using modified diet principles. This course teaches students to develop an in-depth understanding of the principles of diet therapy. Students will learn to assess patients’ nutritional needs, develop care plans, and implement a delivery system. Students will also learn documentation skills required by Centers for Medicare and Medicaid Services (CMS).

Nutrition Science Capstone

This course offers practical experience in a healthcare facility monitored by a Registered Dietician in order to build specialized skills. This work-based experience provides an opportunity for students to transfer their academic preparation into actual work-based learning by acquiring "real world" skills and building ties with the healthcare community. Student must complete 150 hours of field experience.
HUMAN SERVICES

🔗 Human Services Career Information
Principles of Human Services (7176)
Understanding Diversity (7174)
Relationships and Emotions (7177)
Human Services Capstone (7241)

**Principles of Human Services**
Principles of Human Services explores the history of human services, career opportunities, and the role of the human service worker. The course focuses on target populations and community agencies designed to meet the needs of various populations. The course includes a required job shadowing project in a Human Services setting.

**Understanding Diversity**
Understanding Diversity encourages cultural awareness and appreciation of diversity. The course focuses on cultural variations in attitudes, values, language, gestures, and customs. It includes information about major racial and ethnic groups in the United States.

**Relationships and Emotions**
Relationship and Emotions examines the key elements of healthy relationships. The course explores the main problems that damage relationships and presents research findings on successful and unsuccessful relationships and emotional connections. It explores the impact of one’s emotional and relationship history on current and future romantic relationships. The course presents practical, scientific-based skills for improving relationships. Additionally, this course offers practical and useful information for people who have experienced loss. Students have the opportunity to evaluate their own experiences and attitudes toward loss and grief.
INFORMATION TECHNOLOGY

Information Technology Career Information
Principles of Computing

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations, and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development, and flowcharting.

Information Technology Fundamentals

Information Technology Fundamentals provides the necessary competencies required for an entry-level Information Technology professional. Students will have the knowledge required to assemble components based on customer requirements, install, configure, and maintain devices/software for end users, understand the basics of networking and security, and properly and safely diagnose, resolve, and document common hardware and software issues while applying troubleshooting skills. Students will also learn appropriate customer support, understand the basics of virtualization, desktop imaging, and deployment. This course should also prepare students for the CompTia A+ Certification Exam.

IT Operations

Advanced Information Technology will provide students with the fundamental concepts in networking and cybersecurity. Students are introduced to the principles and concepts of computer networking, covering the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. Students will be able to troubleshoot routers and switches and resolve common issues. The students will also explore the field of Cyber Security/Information Assurance focusing on the technical and managerial aspects of the discipline. Students will be introduced to the basic terminology, concepts, and best practices of computer/network security and the roles and responsibilities of management/security personnel. The students will learn the technologies used and techniques involved in creating a secure computer networking environment including authentication and the types of attacks against an organization.

IT Support Capstone

Not currently offered.
### Networking Career Information

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</thead>
<tbody>
<tr>
<td>Principles of Computing (7183)</td>
<td>Information Technology Fundamentals (7180)</td>
<td>Networking Fundamentals (7182)</td>
<td>Networking Capstone (7251)</td>
</tr>
</tbody>
</table>

**Principles of Computing**

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development and flowcharting.

**Information Technology Fundamentals**

Information Technology Fundamentals provides the necessary competencies required for an entry-level Information Technology professional. Students will have the knowledge required to assemble components based on customer requirements, install, configure, and maintain devices/software for end users, understand the basics of networking and security, properly and safely diagnose, resolve, and document common hardware and software issues while applying troubleshooting skills. Students will also learn appropriate customer support and understand the basics of virtualization, desktop imaging, and deployment. This course should also prepare students for the CompTia A+ Certification Exam.

**Networking Fundamentals**

Networking Fundamentals describes, explores, and demonstrates how a network operates in our everyday lives. The course covers the technical pieces and parts of a network and also societal implications such as security and data integrity. Using hands-on lab work, this course offers students the critical information needed for a role as an Information Technology professional who supports computer networks. Concepts covered include the TCP/IP model, OS administration, designing a network topology, configuring the TCP/IP protocols, managing network devices and clients, configuring routers and switches, wireless technology, and troubleshooting. It provides students the ability to implement, administer, and troubleshoot information systems that incorporate the Microsoft Windows clients and servers in an enterprise environment. Students will be introduced to managing applications, files, folders, and devices in a Windows active directory environment.

**Networking Capstone**

Networking Capstone includes hands-on lab work, and a wide array of assessment types and tools. The course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks. The course also emphasizes network security concepts and introduces network virtualization and automation. Students learn how to configure, troubleshoot, and secure enterprise network devices and understand how application programming interfaces (API) and configuration management tools enable network automation.

*This Pathway is Offered to Students Who Attend:*
Principles of Computing (7183) | Website & Database Development (7185) | Software Development (7184) | Software Development Capstone (7253)

**Principles of Computing**

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations, and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development, and flowcharting.

**Website & Database Development**

Website and Database Development will provide students a basic understanding of the essential web and database skills and business practices that directly relate to internet technologies used in web site and database design and development. Students will learn to develop web sites using HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Additionally students will be introduced to the basic concepts of databases including types of databases, general database environments, database design, normalization and development of tables, queries, reports, and applications. Students will be familiarized with the use of ANSI Standard Structured Query Language. Students will be introduced to data concepts such as data warehousing, data mining, and BIG Data. Students will develop a business application using database software such as Microsoft Access.

**Software Development**

Software Development introduces students to concepts and practices of programming languages and software development. Students are introduced to algorithms and development tools used to document/implement computer logic. The course discusses the history of software development, the different types of programming such as real time processing, web/database applications, and different program development environments. Concepts will be applied using different programming languages, and students will develop and test working programs in an integrated system.

**Software Development Capstone**

Not currently offered.
LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

Fire & Rescue Career Information
Principles of Public Safety provides the student with an overview of the requirements necessary to complete a degree in public safety, including an overview of faculty expectations and support that is offered to students in this program. Students are introduced to the degree requirements and are guided through the completion of an Individual Academic Plan. Students are introduced to Student Retention Services, Library System and Research, Writing Tutorial Services, and Career Services for assistance in successfully completing projects throughout the course and degree program. Areas of interest include fire science, homeland security, environmental health and safety, and emergency medical services. In addition to these competencies students will also cover an array of topics under hazmat awareness and operations including hazardous materials definitions, regulations, statistics, properties and hazards, hazardous materials identification, incident management priorities, strategic goals and tactical objectives, personal protective equipment, contamination and decontamination, incident-specific strategies and tactics, terrorists, and other criminal activities.

Fire Fighting Fundamentals

Fire Fighting Fundamentals is for those students who are seeking certification as a firefighter. This course will introduce the student to NFPA 1001 which serves as the standard of measurement for all firefighters in North America. It will introduce students to fire service terminology, history, and basic firefighting skills needed to complete and pass all requirements designed by the Department of Homeland Security for Basic, Mandatory and Firefighter I. Furthermore, students will study fire protection systems, firefighter safety, and survival. Students will also learn what fire is, the chemical hazards of combustion, and related byproducts of fire. Fire department organization, administration, operations, and basic strategies and tactics will be covered.

Advanced Fire Fighting

Advanced Fire Fighting builds on skills learned in Fire Fighting Fundamentals. The Fire and Rescue curriculum may include five Indiana state fire certifications: (1) Mandatory, (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, and (5) Hazardous Materials Operations. An additional two industry certifications may be earned by adding (6) First Responder.

Fire Prevention Capstone

This course examines the function of the fire inspector and organization of the fire prevention unit. Students will also focus on the responsibility of the firefighter, the investigator, and the department in fire scene investigations. The requirements of local, state, and federal government and private sector regulations are covered.
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH (STEM)

Design Technology Career Information

Engineering Career Information
**Introduction to Engineering Design**

Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students begin with completing structured activities and move to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented.

**Mechanical and Architectural Design**

Mechanical and Architectural Design provides students with a basic understanding of creating working drawings related to manufacturing detailing and assembly as well as a survey of architectural design focused on the creative design of buildings. Topics include fastening devices, thread symbols and nomenclature, surface texture symbols, classes of fits, and the use of parts lists, title blocks, and revision blocks. From an architecture perspective, this course covers problems of site analysis, facilities programming, space planning, conceptual design, proper use of materials, and selection of structure and construction techniques.

**Manufacturing Principles and Design**

Manufacturing Principles and Design will challenge students to use 2D and 3D CAD skills to explore topics related to manufacturing principles and design. Students will gain an understanding of solid modeling and parametric solid modeling and use 3D printers to create industry part prints. Additionally, students will compare manufacturing practices like lean manufacturing, design and program CNC processes, and use metrology tools and practices to evaluate an object.

**Mechanical Design Capstone**

Mechanical Design Capstone covers a broad range of design techniques that are critical for the manufacturing industry. Students will have the chance to study solid modeling techniques and design, fundamental principles of geometric dimensioning and tolerancing, solidworks design software, and an introduction to additive manufacturing.
## Introduction to Engineering Design

Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students begin with completing structured activities and move to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented.

## Principles of Engineering

Principles of Engineering is a course that focuses on the process of applying engineering, technological, scientific, and mathematical principles in the design, production, and operation of products, structures, and systems. This is a hands-on course designed to provide students opportunities to explore experiences related to specialized fields such as civil, mechanical, and materials engineering. Students will engage in research, development, planning, design, production, and project management to simulate a career in engineering. The topics of ethics and the impacts of engineering decisions are also addressed. Classroom activities are organized to allow students to work in teams and use modern technological processes, computers, CAD software, and production systems in developing and presenting solutions to engineering problems.

## Civil Engineering and Architecture

Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities should include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design.

## Engineering Design and Development

Engineering Design and Development is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide the team to reach a solution to the problem. The team and/or individual(s) communicates their solution to a panel of stakeholders at the conclusion of the course. As the capstone course in the Engineering Pathway, EDD engages students in critical thinking, problem-solving, time management, and teamwork skills.

### This Pathway is Offered to Students Who Attend:

- [ ] A
- [ ] B
- [ ] C
- [ ] D
- [ ] HHCC
TRANSPORTATION, DISTRIBUTION, & LOGISTICS

Automotive Services Career Information
# AUTOMOTIVE COLLISION REPAIR

## Automotive Collision Repair Career Information

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<td>Automotive Painting &amp; Refinishing (7206)</td>
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</table>

### Principles of Collision Repair

This course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics. This course also provides students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive collision industry. Students will study the basics of collision repair in the automotive industry.

### Automotive Body Repair

This course examines the characteristics of body metals and includes the installation of moldings, ornaments, and fasteners with emphasis on sheet metal analysis and safety. Additionally, this course introduces fundamentals of using hand and power tools in the repair of minor collision damage, with emphasis on safety.

### Automotive Painting & Refinishing

This course introduces auto paint considerations with emphasis on the handling of materials and equipment in modern automotive technologies. It provides basic skills and fundamental knowledge in oxy-fuel welding, cutting, brazing and plasma cutting, gas metal arc welding, squeeze type resistance welding, exterior panel welding, and I-CAR welding test preparation. This course is designed for auto service and body technicians. The course emphasizes safe practices in oxyfuel and specific welding processes in the automotive body repair field.

### Collision Repair Capstone

This course further explores important skills and competencies within the Automotive Body Technology Pathway. Topics such as automotive painting technology, collision damage appraising, and fiberglass plastic repair will be covered. Additionally, co-op and internship opportunities will be available for students.

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**This Pathway is Offered to Students Who Attend:**

- [A]
- [B]
- [C]
- [D]
- [E]
- [HHCC]
This course gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics.

This course gives students an in-depth study of vehicle electrical systems. Students will study the fundamentals of electricity and automotive electronics in various automotive systems. Additionally it teaches theory, service, and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today’s automobiles. This course will emphasize professional diagnosis and repair methods for brake systems.

This course will study driveline theory and in-car service procedures. Theory and overhaul procedures related to the driveshaft and axle assemblies for front and rear wheel drive vehicles are included as well. Additionally, this course teaches theory, service, and repair of automotive steering and suspension systems. It provides an overview of various mechanical, power, and electrical steering and suspension systems used on today’s automobiles and will emphasize professional diagnosis and repair methods for steering and suspension systems.

This course further explores important skills and competencies within the Automotive Service Technology Pathway. Topics such as steering and suspension, engine repair, climate control, and driveline service will be covered. Additionally, co-op and internship opportunities will be available for students.
OTHER PATHWAYS

(NOT PART OF NEXT LEVEL PROGRAMS OF STUDY)

Civic Arts
Required Courses

Principles of Business Management (4562)

Successive progression of Level I/II, & III/IV in one of the following disciplines: Ceramics (4040), Drawing (4060), Jewelry (4042), Painting (4064), Photography (4062), or Stained Glass (4002)

Advanced Coursework (Optional)

Successive progression of Level V/VI in one of the following disciplines: Ceramics (4040), Drawing (4060), Jewelry (4042), Painting (4064), Photography (4062), or Stained Glass (4002)

Principles of Business Management

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. Instructional strategies should include job shadowing, simulations, guest speakers, tours, and Internet research and business experiences.

Ceramics

Students in ceramics engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work, explore cultural and historical connections, analyze, interpret, theorize, and make informed judgments about artwork and the nature of art, relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Drawing

Students in drawing engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. They reflect upon and refine their work, explore cultural and historical connections, analyze, interpret, theorize, and make informed judgments about artwork and the nature of art, relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

This Pathway is Offered to Students Who Attend:
CIVIC ARTS - ARTS

Jewelry

Students in Jewelry engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of jewelry design and fabrication techniques including, sawing, piercing, filing, and soldering. They reflect upon and refine their work, explore cultural and historical connections, analyze, interpret, theorize, and make informed judgments about artwork and the nature of art, relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Painting

Students taking painting engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students create abstract and realistic paintings, using a variety of materials such as mixed media, watercolor, oil, and acrylics as well as techniques such as stippling, gouache, wash, and impasto. They reflect upon and refine their work, explore cultural and historical connections, analyze, interpret, theorize, and make informed judgments about artwork and the nature of art, relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Photography

Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools and darkroom processes. They reflect upon and refine their work, explore cultural and historical connections, analyze, interpret, theorize, and make informed judgments about artwork and the nature of art, relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

Stained Glass

Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections, analyze, interpret, theorize, and make informed judgments about artwork and the nature of art, create three-dimensional works of art, reflect upon the outcomes, and revise their work, relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

This Pathway is Offered to Students Who Attend: CIVIC ARTS - ARTS
### Required Courses
- Beginning Orchestra (4166)
- Intermediate Orchestra (4172) OR Intermediate Band (4168)
- Principles of Business Management (4562) OR Principles of Teaching (7161)

### Advanced Coursework (Optional)
- Advanced Orchestra (4174) OR Advanced Band (4162) OR Jazz Ensemble (4164) OR AP Music Theory (4210)

### Beginning Orchestra
Students in this ensemble are provided with a balanced comprehensive study of music through the orchestra, string and/or full orchestra, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of orchestral literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.

### Intermediate Orchestra
Students in this ensemble are provided with a balanced comprehensive study of music through the orchestra, string and/or full orchestra, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of orchestral literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.

### Intermediate Band
This course includes a balanced comprehensive study of music that develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Students study a varied repertoire of developmentally appropriate concert band literature and develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.
Principles of Business Management

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. Instructional strategies should include job shadowing, simulations, guest speakers, tours, and Internet research and business experiences.

Principles of Teaching

This course provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation, and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined.

Advanced Orchestra

Students taking this course are provided with a balanced comprehensive study of music through the orchestra, string and/or full orchestra, which is designed to enable students to connect, examine, define, try, extend, refine and integrate music study into other subject areas. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, and (6) analyzing music, and (7) studying historically significant styles of literature. Orchestral repertoire must be of the highest caliber, and mastery of advanced technique must be evident. A limited amount of time, outside the school day, may be scheduled for dress rehearsals and performances.

This Pathway is Offered to Students Who Attend:

CIVIC ARTS - BAND/ORCHESTRA
Advanced Band

Students taking this course are provided with a balanced comprehensive study of chamber ensemble and solo literature, which develops skills in the psychomotor, cognitive, and affective domains. Students develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature as pertaining to chamber ensemble and solo literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.

Jazz Ensemble

Students taking this course develop musicianship and specific performance skills through group and individual settings for the study and performance of varied styles of instrumental jazz. Instruction includes the study of the history, formative, and stylistic elements of jazz. Students develop their creative skills through improvisation, composition, arranging, performing, listening, and analyzing. A limited amount of time outside of the school day may be scheduled for rehearsals and performances.

AP Music Theory

Students taking this course develop skills in the analysis of music and theoretical concepts. Students: (1) develop ear training and dictation skills, (2) understand harmonic structures and analysis, (3) understand modes and scales, (4) study a wide variety of musical styles, (5) study traditional and nontraditional music notation and sound sources as tools for musical composition, and (6) receive detailed instruction in other basic elements of music.
CIVIC ARTS - CHORUS

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Advanced Coursework (Optional)</th>
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</thead>
<tbody>
<tr>
<td>Principles of Business Management (4562)</td>
<td></td>
</tr>
<tr>
<td>Beginning Chorus (4182)</td>
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</tr>
<tr>
<td>Advanced Chorus (4188)</td>
<td>Choral Chamber (4180)</td>
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</tbody>
</table>

**Principles of Business Management**

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. Instructional strategies should include job shadowing, simulations, guest speakers, tours, and Internet research and business experiences.

**Beginning Chorus**

Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer’s intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.

**Advanced Chorus**

Students taking Advanced Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer’s intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.

**Optional: Choral Chamber**

Student musicianship and specific performance skills in this course are enhanced through specialized small group instruction. The activities expand the repertoire of a specific genre. Chamber ensemble classes provide instruction in creating, performing, listening to, and analyzing music in addition to focusing on specific subject matter. Students develop the ability to understand and convey the composer’s intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances.

This Pathway is Offered to Students Who Attend:
Civic Arts Career Information

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Advanced Coursework (Optional)</th>
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</thead>
</table>
| Principles of Business Management (4562)  
Theatre Arts (4242)  
Advanced Theatre Arts (4240) | Advanced Acting (4250) or Theatre Production (4248) |

**Principles of Business Management**

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. Instructional strategies should include job shadowing, simulations, guest speakers, tours, and Internet research and business experiences.

**Theatre Arts**

Students enrolled in Theater Arts read and analyze plays, create scripts and theater pieces, conceive scenic designs, and develop acting skills. These activities incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theater, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theater patrons in their community.
Advanced Theatre Arts

Students enrolled in Advanced Theatre Arts read and analyze plays and apply criteria to make informed judgments. They draw on events and experiences to create scripted monologues and scenes, create scenic designs for existing plays, and build characters through observation, improvisation, and script analysis. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore careers in theater arts and begin to develop a portfolio of their work. They also attend and critique theater productions and identify ways to support the theater in their community.

Advanced Acting

Students enrolled in Advanced Acting research, create, and perform characters through script analysis, observation, collaboration, and rehearsal. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theater by attending plays, meeting actors and discussing their work, and becoming theater patrons in their community.

Theatre Production

Students enrolled in Theater Production take on responsibilities associated with rehearsing and presenting a fully-mounted theater production. They read and analyze plays to prepare for production, conceive and realize a design for a production, including set, lighting, sound and costumes, rehearse and perform roles in a production, and direct or serve as assistant director for a production. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students investigate a theater arts career and then develop a plan for potential employment or further education through audition, interview, or presentation of a portfolio. Students also attend and critique theatrical productions and volunteer to support theater in their community.

This Pathway is Offered to Students Who Attend: CIVIC ARTS - THEATRE
Advanced Theatre Arts

Students enrolled in Advanced Theater Arts read and analyze plays and apply criteria to make informed judgments. They draw on events and experiences to create scripted monologues and scenes, create scenic designs for existing plays, and build characters through observation, improvisation, and script analysis. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore careers in theater arts and begin to develop a portfolio of their work. They also attend and critique theater productions and identify ways to support the theater in their community.

Advanced Acting

Students enrolled in Advanced Acting research, create, and perform characters through script analysis, observation, collaboration, and rehearsal. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theater by attending plays, meeting actors and discussing their work, and becoming theater patrons in their community.

Theatre Production

Students enrolled in Theater Production take on responsibilities associated with rehearsing and presenting a fully-mounted theater production. They read and analyze plays to prepare for production, conceive and realize a design for a production, including set, lighting, sound and costumes, rehearse and perform roles in a production, and direct or serve as assistant director for a production. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students investigate a theater arts career and then develop a plan for potential employment or further education through audition, interview, or presentation of a portfolio. Students also attend and critique theatrical productions and volunteer to support theater in their community.