1. What are Pathways & Career Clusters?
2. Agriculture
4. Architecture & Construction
9. Arts, AV Technology & Communication
13. Business & Marketing
17. Education & Training
20. Health Science
25. Hospitality & Human Services
29. Information Technology
32. Manufacturing & Logistics
37. Public Safety
41. STEM
43. Transportation

**what are pathways?**
Pathways are small groups of occupations within a career cluster.

Example:
Accounting is a pathway in the Business and Marketing career cluster.

**what are career clusters?**
Career Clusters are occupations in the same field of work (ex: business & marketing) that require similar skills.

*All pathway plans are based on achieving the Core 40 with Academic or Technical Honors Diploma. Core 40 plans are still available.*
agriculture

Agriculture includes the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products and resources.

pathway
Horticulture & Landscape

post-secondary possibilities

Associate Degree:
Agriculture

Bachelor’s Degree:
Agricultural Economics, Farm Management, Natural Sciences, Agricultural Engineering, Agronomy, Animal Science, Crop Science, Agribusiness

careers
Grain/Meat Inspector, Farm Manager, Greenhouse Grower, Swine Production Manager, Agricultural Retail Sales, Park Naturalist, Commodity Marketing, Forester, Farmworker/Laborer, Lawn Service/Groundskeeper, Soil & Water Conservation

industry recognized certification
(These do not count for the Technical Honors Diploma or Graduation Pathways)
OHSA 10 Certification

post-secondary courses aligned for potential dual credit

IVY TECH - Lafayette (PCCTE)
AGRI 116: Survey of Horticulture
AGRI 164: Landscape Management 1

IU/IVY TECH/USI/BALL STATE (CHS)
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings
architecture & construction

Careers can include designing, planning, managing, building & maintaining of the built environment.

pathways

Construction
HVAC (Heating, Ventilation, Air Conditioning)
Housing and Interior Design
Mechanical

post-secondary possibilities

Apprenticeships:
Sheet Metal Workers, Pipt Fitters, Plumbers, Ironworkers, Electrical Workers, Bricklayers, Frost & Heat Insulators, Operating Engineers, Painters, Boilermakers, Carpenters and Millwrights

Associate Degree:
Building Construction Management, Construction Technology, Design Technology, Environmental Design, Bachelor’s Degree:
Engineering (various), Architecture, Organizational Leadership & Supervision, Landscape Architecture

careers

Project Manager, Risk Manager, Residential Designer, HVAC Technician, Carpenter, Electrician, Heavy Equipment Operator, Urban Planner, Plumber, Pipefitter, Laborer, Environmental Designer, Computer Graphic Artist, Architect, CAD/CAM Operator, Engineers (all types), Glaziers, Steel Workers, Iron Workers, Surveyors, Interior Designers

Indiana College & Career Pathway Plan

Career Cluster: Architecture & Construction
Pathway: Mechanical

<table>
<thead>
<tr>
<th>Grade</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
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<tbody>
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<tr>
<td>Science</td>
<td>Biology</td>
<td>Chemistry</td>
<td>Physics</td>
<td>Recommended 4th year</td>
</tr>
<tr>
<td>Social Studies, Health/PE</td>
<td>World Geography /History PE</td>
<td>Health</td>
<td>US History</td>
<td>Government Economics</td>
</tr>
<tr>
<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Computers in Design &amp; Production 1/2</td>
<td>Intro to Manufacturing 1/2 Principles of Engineering Architectural Drafting &amp; Design 1</td>
<td>CAD &amp; Animation 1 (PCCTE) Computer Integrated Manufacturing</td>
<td>CAD &amp; Animation (PCCTE) (OR Course) Civil Engineering &amp; Architecture</td>
</tr>
<tr>
<td>Other Elective Courses for this Pathway</td>
<td>World Language</td>
<td>World Language Fine Arts</td>
<td>World Language</td>
<td>Recommended 4th Year</td>
</tr>
</tbody>
</table>

Industry Recognized Certification

Certified Solid Works Associate (CSWA)
*Meets requirements for the Technical Honors Diploma & Graduation Pathways

Post-secondary courses aligned for potential dual credit

IVY TECH (PCCTE)
DESN 101: Intro to Design Tech; DESN 104: Mechanical Graphics; DESN 105: Architectural Design; DESN 115: BIM Architecture; DESN 220: 3D CAD

IU/IVY TECH/USI/BALL STATE (CHS)
DESN 113: 2-D Computer Aided Design

Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings
## Indiana College & Career Pathway Plan

### Career Cluster: Architecture & Construction

#### Pathway: Construction

<table>
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<tr>
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<td>Quantitative</td>
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<tr>
<td>Science</td>
<td>Biology</td>
<td>Chemistry</td>
<td>3rd Core 40</td>
<td>Recommended</td>
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<td></td>
<td></td>
<td></td>
<td>Science</td>
<td>4th year</td>
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<td>Social Studies,</td>
<td>World Geography</td>
<td>Health</td>
<td>US History</td>
<td>Government</td>
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<tr>
<td>Health/PE</td>
<td>/History PE</td>
<td></td>
<td></td>
<td>Economics</td>
</tr>
</tbody>
</table>

### Other Elective Courses for this Pathway

- World Language
- World Language
- World Language
- World Language
- World Language
- World Language

### Other Elective Courses for Construction

- Personal Finance, Digital Applications & Responsibility
- Introduction to Engineering
- Principles of Engineering
- Computer Integrated Manufacturing
- Civil Engineering & Architecture
- Career Exploration Internship
- Computers in Design & Production 1/2
- Intro to Manufacturing 1/2
- Robotics & Design Innovation 1/2

#### Industry Recognized Certification

- None

#### Post-Secondary Courses Aligned for Potential Dual Credit

- IVY TECH (PCCTE)
- IU/IVY TECH/USI/BALL STATE (CHS)
- DESN 113 2-D Computer Aided Design

*Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

## Indiana College & Career Pathway Plan

### Career Cluster: Architecture & Construction

#### Pathway: HVAC

<table>
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<th>Grade</th>
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<td>Social Studies,</td>
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<td>/History PE</td>
<td></td>
<td></td>
<td>Economics</td>
</tr>
</tbody>
</table>

### Career Technical Education/Career Prep Courses for this Pathway

- Intro to Construction 1
- Intro to Construction 2
- Construction Trades 1 (PCCTE)
- Construction Trades 2 (PCCTE)

### Other Elective Courses for this Pathway

- World Language
- World Language
- World Language
- World Language
- World Language
- World Language

#### Industry Recognized Certification

- None

#### Post-Secondary Courses Aligned for Potential Dual Credit

- IVY TECH (PCCTE)
- HVAC 100: Introduction to HVAC
- HVAC 101: Heating Fundamentals
- HVAC 103: Refrigeration 1
- HVAC 202: Electrical Circuits & Controls
- INDT 113: Basic Electricity
- IVTY 113: Student Success in Technology

*Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
## Indiana College & Career Pathway Plan

**Career Cluster: Architecture & Construction**
**Pathway: Housing & Interior Design**

<table>
<thead>
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<td>Health</td>
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<td>Government Economics</td>
</tr>
<tr>
<td><strong>Career Technical Education/Career Prep Courses for this Pathway</strong></td>
<td>Computers in Design &amp; Production 1/2 Preparing for College &amp; Careers</td>
<td>Intro to Housing &amp; Interior Design Careers 1</td>
<td>Housing &amp; Interior Design Careers 2</td>
<td></td>
</tr>
<tr>
<td><strong>Other Elective Courses for this Pathway</strong></td>
<td>World Language</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
</tr>
<tr>
<td></td>
<td>Fine Arts</td>
<td>Personal Finance, Digital Applications &amp; Responsibility, Introduction to Business, Drawing 1, Digital Design, Career Exploration Internship</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Industry Recognized Certification
None

### Post-Secondary Courses Aligned for Potential Dual Credit

**IVY TECH (PCCTE)**
None

**IU/IVY TECH/USI/BALL STATE (CHS)**
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings

---

## Arts, AV Technology & Communication

**Careers**

Careers may include the following skills: designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

### Pathways

- **Radio & TV**
- **Fashion, Textiles & Design**
- **Graphic Imaging**

### Post-Secondary Possibilities

**Associate Degree:**
- Fine Arts, Professional Communication, Visual Communication

**Bachelor's Degree:**

### Careers

- Camera Operator, Web Designer, Broadcaster, Editor, Producer, Director, Instructor, Art Therapist, Art Historian, Curator, Textile Designer, Writer, Graphic Designer, Journalist, Photographer, Lobbyist, Animator, Print Binding and Finishing, Radio Operator
## Indiana College & Career Pathway Plan

### Career Cluster: Arts, AV Technology & Communication
#### Pathway: Radio & TV

<table>
<thead>
<tr>
<th>Grade</th>
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<td>Chemistry</td>
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<tr>
<td>Social Studies, Health/PE</td>
<td>World Geography/History PE</td>
<td>Health</td>
<td>US History</td>
<td>Government Economics</td>
</tr>
<tr>
<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Intro to Communications Preparing for College &amp; Careers</td>
<td>Radio TV 1 Journalism</td>
<td>Radio TV 2 (CHS) or Video Production &amp; Media Studies 1 (PCCTE)</td>
<td>IS Radio or TV (CHS) or Video Production &amp; Media Studies 2 (PCCTE)</td>
</tr>
<tr>
<td>Other Elective Courses for this Pathway</td>
<td>World Language</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
</tr>
<tr>
<td></td>
<td>Fine Arts</td>
<td>Personal Finance, Digital Applications &amp; Responsibility, Film Theory &amp; Practice, School Media, Newspaper or Yearbook, Career Exploration Internship</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Industry Recognized Certification
- Final Cut Pro (rarely achieved by students)

### Post-Secondary Courses Aligned for Potential Dual Credit
- **Vincennes University (PCCTE)**
  - BCST 102: Intro to Audio-Video Production
  - BCST 140: Video Production I
- **University of Southern Indiana (CHS)**
  - RTV150: Practicum in Broadcasting
- **IU/IVY Tech/Ball State (CHS)**
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings*

---

### Indiana College & Career Pathway Plan

#### Career Cluster: Arts, AV Technology & Communication
#### Pathway: Graphic Imaging

<table>
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<td>Health</td>
<td>US History</td>
<td>Government Economics</td>
</tr>
<tr>
<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Digital Design 1 Preparing for College &amp; Careers</td>
<td>Web Design 1 Interactive Media</td>
<td>Graphic Design: Layout (PCCTE)</td>
<td>Graphic Imaging Technology 1 (PCCTE)</td>
</tr>
<tr>
<td>Other Elective Courses for this Pathway</td>
<td>World Language</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
</tr>
<tr>
<td></td>
<td>Fine Arts</td>
<td>Personal Finance, Digital Applications &amp; Responsibility, Introduction to Business, Photography 1/2, Drawing 1/2, Career Exploration Internship</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Industry Recognized Certification
- None

### Post-Secondary Courses Aligned for Potential Dual Credit
- **IU/IVY Tech/USI/Ball State (CHS)**
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings*
indiana college & career pathway plan

career cluster: arts, av technology & communication
pathway: fashion, textiles & design

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<td>World Geography /History PE</td>
<td>Health</td>
<td>US History</td>
<td>Government Economics</td>
</tr>
<tr>
<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Intro to Fashion &amp; Textiles Preparing for College &amp; Careers</td>
<td>Computers in Design/Production 1 Visual Communication</td>
<td>Fashion &amp; Textile Careers 1</td>
<td>Fashion &amp; Textile Careers 2</td>
</tr>
<tr>
<td>Other Elective Courses for this Pathway</td>
<td>World Language Fine Arts</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
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<tr>
<td>World Language Fine Arts</td>
<td>Personal Finance, Digital Applications &amp; Responsibility, Drawing 1, Digital Design 1/2, Drawing 1/2, Career Exploration Internship</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

industry recognized certification
None

post-secondary courses aligned for potential dual credit

IVY TECH (PCCTE)
None

IU/IVY TECH/USI/BALL STATE (CHS)
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings

business & marketing

These careers may involve planning, organizing, directing and evaluating essential business functions in every sector of the economy.

pathways
Accounting
Entrepreneurship (Business Management Focus)
Marketing Management

post-secondary possibilities
Associate Degree:
Bookkeeping, Human Resources, Office Administration, Business Administration
Bachelor’s Degree:
Accounting, Business Administration, Human Resources, Organizational Leadership & Supervision, Business Management, Marketing, Finance, Economics, Advertising, Labor Studies, Public Relations

careers
Bank Teller, Sales Representative, Accountant, Legal Secretary, Real Estate Agent, Financial Analyst, Chief Executive Officer, Auditor, Tax Preparer, Payroll Clerk, Budget Analyst, Economist, Human Resources Specialist
**Indiana College & Career Pathway Plan**

**Career Cluster: Business & Marketing**

**Pathway: Accounting**

**Grade 9**
- English: English 9
- Math: Algebra 1
- Science: Biology
- Social Studies, Health/PE: World Geography

**Grade 10**
- English: English 10
- Math: Geometry
- Science: Chemistry
- Social Studies, Health/PE: History

**Grade 11**
- English: English 11
- Math: Algebra 2
- Science: 3rd Core 40 Science
- Social Studies, Health/PE: Government

**Grade 12**
- English: English 12
- Math: Math or Quantitative Reasoning
- Science: Recommended 4th year
- Social Studies, Health/PE: Economics

**Career Technical Education/Career Prep Courses for this Pathway**
- Intro to Accounting
- Principles of Business Management
- Advanced Accounting

**Other Elective Courses for this Pathway**
- World Language
- Fine Arts
- Personal Finance, Digital Applications & Responsibility
- Business Law & Ethics 1/2
- Introduction to Entrepreneurship, Career Exploration Internship

**Industry Recognized Certification**
- None

**Post-Secondary Courses Aligned for Potential Dual Credit**

**Indiana Tech (CHS)**
- ACCT 101: Financial Accounting
- BUSN 101: Introduction to Business
- BUSN 201: Business Law 1
- MKTG 101: Principles of Marketing

**IU/IVY Tech/USI/Ball State (CHS)**
- Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

---

**Indiana College & Career Pathway Plan**

**Career Cluster: Business & Marketing**

**Pathway: Entrepreneurship & Management**

**Business Management Focus**

**Grade 9**
- English: English 9
- Math: Algebra 1
- Science: Biology
- Social Studies, Health/PE: World Geography

**Grade 10**
- English: English 10
- Math: Geometry
- Science: Chemistry
- Social Studies, Health/PE: Health

**Grade 11**
- English: English 11
- Math: Algebra 2
- Science: 3rd Core 40 Science
- Social Studies, Health/PE: US History

**Grade 12**
- English: English 12
- Math: Math or Quantitative Reasoning
- Science: Recommended 4th year
- Social Studies, Health/PE: Economics

**Career Technical Education/Career Prep Courses for this Pathway**
- Intro to Business Preparing for College & Careers
- Advanced Accounting Principles of Business Management
- Entrepreneurship/Sports & Entertainment Marketing (PCC/C)

**Other Elective Courses for this Pathway**
- World Language
- Fine Arts
- Personal Finance, Digital Applications & Responsibility
- Principles of Marketing, Sports & Entertainment Marketing, Business Law & Ethics 1/2
- Work Based Learning, Career Exploration Internship

**Industry Recognized Certification**
- None

**Post-Secondary Courses Aligned for Potential Dual Credit**

**Indiana Tech (PCC/TE)**
- BUSN 101: Introduction to Business
- MKTG 101: Principles of Marketing

**IU/IVY Tech/USI/Ball State (CHS)**
- Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
Careers in Education and Training include the planning, managing and providing of education and training services, and related learning and support services.

**Foundation Courses for All Students:**
- Child Development
- Advanced Child Development
- Interpersonal Relationships
- Early Childhood Education

**Pathways**
- Early Childhood Education
- Education Careers

**Post-secondary Possibilities**
- **Associate Degree:**
  - Early Childhood Education, Education
- **Bachelor's Degree:**
  - Secondary Education, Elementary Education, Special Education, Urban Education
- **Master's Degree:**
  - School Counseling, School Administration, Educational Leadership

**Careers**
- Teacher
- Administrator
- Nanny
- Coach
- School Counselor
- Recreation Worker
- Social Worker
- Librarian
- Special Education Teacher

**Industry Recognized Certification**
- None

**Post-secondary Courses Aligned for Potential Dual Credit**

<table>
<thead>
<tr>
<th>Course</th>
<th>SOLICE (PCCTE)</th>
<th>IVY TECH (CHS)</th>
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<tr>
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*Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
### Indiana College & Career Pathway Plan

**Career Cluster: Education & Training**

**Pathway: Early Childhood Education**

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<td>World Geography/History PE</td>
<td>Health</td>
<td>US History</td>
<td>Government Economics</td>
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<tr>
<td><strong>Career Technical Education/Career Prep Courses for this Pathway</strong></td>
<td>Interpersonal Relationships</td>
<td>Child Development</td>
<td>Early Childhood Education 1 (PCCTE)</td>
<td>Early Childhood Education 2 (PCCTE)</td>
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<tr>
<td><strong>Other Elective Courses for this Pathway</strong></td>
<td>World Language</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
</tr>
<tr>
<td><strong>Industry Recognized Certification</strong></td>
<td>CDA (Child Development Associate) Credential</td>
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</tbody>
</table>

**Post-secondary Courses Aligned for Potential Dual Credit**

**IVY TECH (PCCTE)**

- ECED 100: Introduction to Early Childhood Education
- ECED 101: Health, Safety & Nutrition
- ECED 103: Curriculum in Early Childhood
- ECED 105: CDA Process

**IU/IVY TECH/USI/BALL STATE (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

### Indiana College & Career Pathway Plan

**Career Cluster: Education & Training**

**Pathway: Education Careers**

<table>
<thead>
<tr>
<th>Grade</th>
<th>9</th>
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<td>US History</td>
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<td><strong>Career Technical Education/Career Prep Courses for this Pathway</strong></td>
<td>Interpersonal Relationships</td>
<td>Child Development</td>
<td>Education Professions 1</td>
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</tr>
</tbody>
</table>

**Post-secondary Courses Aligned for Potential Dual Credit**

**IVY TECH (PCCTE)**

**IU/IVY TECH/USI/BALL STATE (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
# Health Science

These careers focus on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development for all living beings.

## Pathways

- Dental
- Biomedical
- Health Career: Athletic Training
- Nursing

## Post-secondary Possibilities

### Associate Degree:
- Biotechnology, Dental Assisting, Dental Hygiene, Health Care Support, Imaging Sciences, Medical Assisting, Physical Therapy Assistant, Practical Nursing, Radiation Therapy, Respiratory Care, Surgical Technology, Therapeutic Massage

### Bachelor's Degree (or additional work):
- Athletic Training, Pharmacy, Nursing, Dietetics, Biomedical Engineering, Biology, Chemistry, Health Studies, Physical Therapy, Optometry, Speech & Language Pathology, Veterinary Science

## Careers

- Clinical Technician, Laboratory Technician, Dental Assistant, Dental Hygienist, Dentist, Phlebotomist, Medical Coder, Radiology Technician, Medical Assistant, Respiratory Therapist, Veterinarian, Pharmacist, Medical Doctor, Pharmaceutical Sales, Physical Therapist, Occupational Therapist, Optometrist, CNA, LPN, RN, Nurse Practitioner

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### Indiana College & Career Pathway Plan

**Career Cluster: Health Science**

**Pathway: Dental**

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<td>Health</td>
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<td>Career Technical Education/Career Prep</td>
<td>Nutrition &amp; Wellness Preparing for College &amp; Careers</td>
<td>Interpersonal Relationships</td>
<td>Health Science 1 (PCCTE)</td>
<td>Dental Careers 1/2 (PCCTE)</td>
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<td>Other Elective Courses for this Pathway</td>
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<td>Personal Finance, Digital Applications &amp; Responsibility</td>
<td>Advanced Health, Psychology, Sociology, Career Exploration Internship</td>
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</tbody>
</table>

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### Industry Recognized Certification

CPR/AED/AHA through American Red Cross

*Not able to be used for Technical Honors Diploma/Graduation Pathway

### Post-secondary Courses Aligned for Potential Dual Credit

**Indiana University Northwest (PCCTE)**

H242 Introduction to Dentistry

**IUV/IVY TECH/USI/BALL STATE (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

*See Nursing Pathway for Ivy Tech credits awarded for Health Science 1.
# Indiana College & Career Pathway Plan

## Career Cluster: Health Science

### Pathway: Biomedical

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<td>World Geography /History/PE</td>
<td>Health</td>
<td>US History</td>
<td>Government Economics</td>
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</tbody>
</table>

**Career Technical Education/Career Prep Courses for this Pathway**

- Preparing for College & Careers
- PLTW Biomedical Sciences
- Nutrition & Wellness
- PLTW Human Body Systems
- PLTW Medical Int. (not yet offered)

**Other Elective Courses for this Pathway**

- World Language
- World Language
- World Language
- Recommended 4th year
- Fine Arts
- Personal Finance, Digital Applications & Responsibility
- Advanced Health, Psychology, Sociology
- Career Exploration Internship

**Industry Recognized Certification**

None

**Post-Secondary Courses Aligned for Potential Dual Credit**

- **IVY TECH (PCCTE)**
- None
- **IU/IVY TECH/USI/BALL STATE (CHS)**
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings

## Career Cluster: Health Science

### Pathway: Athletic Training

<table>
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| **Science** | Biology | Chemistry | PLTW Principles of Biomedical Science | PLTW Human Body Systems
- Anatomy/Physiology |
| **Social Studies, Health/PE** | World Geography /History/PE | Health | US History | Government Economics |

**Career Technical Education/Career Prep Courses for this Pathway**

- Nutrition & Wellness
- Preparing for College & Careers
- Interpersonal Relationships
- Child Development
- Health Science 1 (PCCTE)
- Health Science 2: Athletic Training (PCCTE)

**Other Elective Courses for this Pathway**

- World Language
- World Language
- World Language
- Recommended 4th year
- Fine Arts
- Personal Finance, Digital Applications & Responsibility
- Substance Abuse, Advanced Health, Psychology
- Sociology
- Introduction to Athletic Training
- Career Exploration Internship

**Industry Recognized Certification**

CPR/AED/AHA through American Red Cross
- First Aid through First Aid

*Not able to be used for Technical Honors Diplomas/Graduation Pathway

**Post-Secondary Courses Aligned for Potential Dual Credit**

- **IVY TECH (PCCTE)**
  - HLHS 100: Intro to Health Careers
  - HLHS 101: Medical Terminology
  - HLHS 102: Essentials of Anatomy & Physiology
- **IU/IVY TECH/USI/BALL STATE (CHS)**
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings
Indiana College & Career Pathway Plan

Career Cluster: Health Science
Pathway: Nursing

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<td>Interpersonal Relationships Child Development</td>
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<td>Personal Finance, Digital Applications &amp; Responsibility, Advanced Child Development, Advanced Health, Psychology, Sociology, Introduction to Athletic Training, Substance Abuse, Career Exploration Internship</td>
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Industry Recognized Certification

- CPR/ALD/AHA, First Aid, Pet First Aid
- CNA (Certified Nursing Assistant) - Health Science Education 2 only

*Not able to be used for Technical Honors Diploma/Graduation Pathway

Post-Secondary Courses Aligned for Potential Dual Credit

**IVY TECH (PCCTE)**
- HLHS 100: Introduction to Health Careers, HLHS 101: Medical Terminology,
- HLHS 102: Essentials of Anatomy & Physiology, HLHS 107: CNA Preparation,
- HLHS 113: Dementia Care

**IU/IVY TECH/USI/BALL STATE (CHS)**
- Will vary depending on student course selections
- *See CHS Concurrent Enrollment Offerings

Hospitality & Human Services

Prepares students for service industries such as tourism, food service, lodging management, travel-related services, family services, and personal care services.

**Pathways**

- Cosmetology
- Culinary Arts
- Human and Social Services

**Post-Secondary Possibilities**

**Associate Degree:**
- Hospitality Administration, Human Services, Mortuary Science, Culinary Arts

**Bachelor’s Degree:**

**Careers**
- Pastry Chef, Head Chef, Event Planner, Food Service Manager, Lodging Manager,
- Butcher, Barber, Funeral Attendant, Hairdresser, Makeup Artist, Embalmer, Skincare Specialist, Gaming Manager, Clergy, Counselor, Therapist, Recreation Worker, Social Worker, Probation Officer
### Indiana College & Career Pathway Plan

#### Career Cluster: Hospitality & Human Services

##### Pathway: Cosmetology

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<td>Intro to Business Preparing for College &amp; Careers</td>
<td>Interpersonal Relationships Nutrition &amp; Wellness Advanced Nutrition &amp; Wellness</td>
<td>Cosmetology 1 (PCCTE)</td>
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<td>Other Elective Courses for this Pathway</td>
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**Industry Recognized Certification**

State of Indiana Cosmetology License (State Board of Cosmetology)

**Post-Secondary Courses Aligned for Potential Dual Credit**

**Vincennes University (PCCTE)**

- COSM 100: Cosmetology 1
- COSM 150: Cosmetology 2

**Indiana University / Ivy Tech / USI / Ball State (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

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### Indiana College & Career Pathway Plan

#### Career Cluster: Hospitality & Human Services

##### Pathway: Human & Social Services

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**Industry Recognized Certification**

None

**Post-Secondary Courses Aligned for Potential Dual Credit**

**IVY TECH (PCCTE)**

None

**Indiana University / Ivy Tech / USI / Ball State (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
Careers focus on design, development, support and management of hardware, software, multimedia, and systems integration services.

**pathways**
- Computer Science & Programming
- Networking
- PC Support/IT Technology

**post-secondary possibilities**

**Associate Degree**
- Computer Science, CyberSecurity
- Database Management & Administration
- Electronics & Computer Technology
- Informatics, Information Technology Support
- Network Infrastructure, Server Administration
- Software Development

**Bachelor’s Degree**
- Computer Science
- Information and Communication
- Science, Informatics, Robotics

**Careers**
- Programmer, System Analyst, Software Engineer
- Information Architect, Security Auditor
- Network Security Support, Digital Forensics Analyst, IT Support Technician
- System Administrator

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### Indiana College & Career Pathway Plan

**Career Cluster: Hospitality & Human Services**

**Pathway: Culinary Arts**

<table>
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<td>Introduction to Business, Interpersonal Relationships.</td>
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<td>Career Exploration Internship</td>
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**Industry Recognized Certification**

- ServSafe Food Manager

*Not able to be used for Technical Honors Diplomas/Graduation Pathway

**Post-Secondary Courses Aligned for Potential Dual Credit**

- **IVY TECH (PCCTE)**
  - HOSP 101: Sanitation & First Aid
  - HOSP 102: Basic Food Theory & Skills

- **IU/IVY TECH/USI/BALL STATE (CHS)**
  - Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
indiana college & career pathway plan

career cluster: information technology
pathway: computer science & programming

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<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Digital Application &amp; Responsibility 1 Intro to Computer Science Preparing for College &amp; Careers</td>
<td>Computer Science 1</td>
<td>Computer Science 2</td>
<td>Computer Science 3: Database or Computer Science 3: Cybersecurity</td>
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<td>Other Elective Courses for this Pathway</td>
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</tr>
</tbody>
</table>

industry recognized certification
None

post-secondary courses aligned for potential dual credit

IVY TECH (CHS)
SDEV 120: Computing Logic
IU/IVY TECH/USI/BALL STATE (CHS)
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings

indiana college & career pathway plan

career cluster: information technology
pathway: pc support/it technology

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<td>Computer Science 1</td>
<td>Computer Science 2</td>
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<tr>
<td>Industry recognized certification</td>
<td>CCNET (Cisco Certified Entry Network Technician)</td>
<td>Networking 1: Cisco (PCCTE)</td>
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</table>

post-secondary courses aligned for potential dual credit

IVY TECH (PCCTE)
NETI 105: Network Fundamentals
NETI 115: Routing & Switching
IU/IVY TECH/USI/BALL STATE (CHS)
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings
### Indiana College & Career Pathway Plan

**Career Cluster: Manufacturing & Logistics**

**Pathway: Electronics**

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<td>Chemistry</td>
<td>3rd Core 40 Science</td>
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</table>

**Career Prep Courses for this Pathway**

- Intro to Manufacturing 1 & 2
- Intro to Engineering Design
- Electronics & Computer Technology 1 (PCCTE)
- Electronics & Computer Technology 2 (PCCTE)

**Other Elective Courses for this Pathway**

- World Language
- World Language
- World Language
- Recommended 4th year

**Industry Recognized Certification**

- ETA Int'l - Associate Certified Electronics Technician (CET)

**Post-Secondary Courses Aligned for Potential Dual Credit**

- IND T103: Motors: Motor Control
- IND T113: Basic Electricity
- Vincennes University (PCCTE)
  - ELEC 105: Electronic Circuit & Analysis 1
  - ELEC 115: Electronic Circuit & Analysis 2
  - ELEC 130: Digital Logic 1
- IU/IVY TECH/USI/Ball State (CHS)
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings

### Pathways

- Electronics
- Industrial Technical Maintenance
- Machine Technology
- Welding

### Post-Secondary Possibilities

**Associate Degree:**
- Mechatronics, Advanced Automation & Robotics,
- Electrical Engineering Technology,
- Energy Technology, HVAC, Industrial Technology,
- Machine Tool Technology, Mechanical Engineering Technology,
- Supply Chain Management/Logistics

**Bachelor's Degree:**
- Engineering (various),
- Industrial Production Management

### Careers

- Wind Turbine Technician, HVAC Installer,
- Electrician, Power Plant Operator, Lineworker,
- Lab Technician, Engineering Assistant, Product Designer, Shipping Clerk, Freight Agent, CNC Technologist, Machinist, Tool and Die Maker
### Indiana College & Career Pathway Plan

**Career Cluster: Manufacturing & Logistics**

**Pathway: Industrial Technical Maintenance**

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</table>

**Career Technical Education/Career Prep Courses for this Pathway**

- Intro to Manufacturing
- Intro to Engineering
- Preparing for College & Careers
- Computers in Design/Production Systems
- Computer Integrated Manufacturing
- Industrial Mechanics 1 (PCCTE)
- Industrial Mechanics 2 (PCCTE)

**Other Elective Courses for this Pathway**

- World Language
- Fine Arts

**Other Elective Courses for this Pathway**

- World Language
- World Language
- Recommended 4th year

**Post-Secondary Courses Aligned for Potential Dual Credit**

**IVY Tech (PCCTE)**

None

**IU/IVY Tech/USI/Ball State (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

**Industry Recognized Certification**

None

**Post-Secondary Courses Aligned for Potential Dual Credit**

**Vincennes University (PCCTE)**

- PMTD 120: General Machines
- PMTD 110/L: Manufacturing Processes with Lab

**IU/IVY Tech/USI/Ball State (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

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### Indiana College & Career Pathway Plan

**Career Cluster: Manufacturing & Logistics**

**Pathway: Precision Machine Technology**

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**Career Technical Education/Career Prep Courses for this Pathway**

- Intro to Manufacturing
- Intro to Engineering Design
- Preparing for College & Careers
- Computers in Design & Production 1 & 2
- Principles of Engineering
- Precision Machining 1 (PCCTE)
- Precision Machining 2 (PCCTE)

**Other Elective Courses for this Pathway**

- World Language
- Fine Arts
- Personal Finance, Digital Application & Responsibility, Robotics 1/2, Computer Integrated Manufacturing, Intro to Construction, Intro to Transportation, Career Exploration Internship

**Post-Secondary Courses Aligned for Potential Dual Credit**

**Vincennes University (PCCTE)**

- PMTD 120: General Machines
- PMTD 110/L: Manufacturing Processes with Lab

**IU/IVY Tech/USI/Ball State (CHS)**

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

**Industry Recognized Certification**

National Institute of Metalworking Skills (NIMS)

*Can be used for Technical Honors Diploma/Graduation Pathway

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*Pathway based on Core 40 with Honors High School Diploma*
indiana college & career pathway plan

Career Cluster: Manufacturing & Logistics
Pathway: Welding Technology

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<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Intro to Manufacturing</td>
<td>Intro to Design/Production</td>
<td>Welding Technology 1 (PCCTE)</td>
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<td>Other Elective Courses for this Pathway</td>
<td>World Language</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
</tr>
<tr>
<td>Industry recognized certification</td>
<td>QHSA 10 Certification</td>
<td>*Cannot be used for Technical Honors Diploma/Graduation Pathway</td>
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<tr>
<td>post-secondary courses aligned for potential dual credit</td>
<td>AWS (American Welding Society)</td>
<td>*Can be used for Technical Honors Diploma/Graduation Pathway</td>
<td></td>
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</tr>
</tbody>
</table>

Careers may involve planning, managing, and providing legal, public safety and protective services and homeland security.

paths

Criminal Justice
EMT/Paramedic
Fire & Rescue

Post-secondary possibilities

Associate Degree:
Criminal Justice, Homeland Security, Paralegal Studies, Paramedic Science, Fire Science, Legal Studies

Bachelor’s Degree:
Criminal Justice, Criminology, Forensic Science, Corrections Administration

Careers

Corrections Officer, Law Enforcement Officer, Public Safety Specialist, Paramedic, EMT, Firefighter, Arson Investigator, Criminal Investigator, Customs Inspector, Lawyer, Paralegal, Bailiff

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings
## Indiana College & Career Pathway Plan

### Career Cluster: Public Safety
#### Pathway: Criminal Justice

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<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Preparing for College &amp; Careers</td>
<td>Interpersonal Relationships</td>
<td>Criminal Justice 1 (PCCTE)</td>
<td>Criminal Justice 2 (PCCTE)</td>
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<tr>
<td>Other Elective Courses for this Pathway</td>
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<tr>
<td>World Language</td>
<td>Fine Arts</td>
<td>Personal Finance, Digital Applications &amp; Responsibility, Psychology, Sociology, Substance Abuse, Robotics 1/2, Business Law &amp; Ethics 1/2, Career Exploration Internship</td>
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</tr>
</tbody>
</table>

**Industry Recognized Certification**
CPR/AED/AHA, Indiana Hunter/Firearms Safety Education Certificate
*Cannot be used for Technical Honors Diploma/Graduation Pathway

**Post-Secondary Courses Aligned for Potential Dual Credit**
- **Vincennes University (PCCTE)**
  - LAWE 100: Survey of Criminal Justice
  - LAWE 101: Basic Police Operations
  - LAWE 145: Ethics & Professionalism in Criminal Justice
  - LAWE 150: Criminal Minds & Deviant Behavior
- **IU/IVY TECH/USI/BALL STATE (CHS)**
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings

### Career Cluster: Public Safety
#### Pathway: EMT/Paramedic

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<td>Chemistry</td>
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<td>Anatomy/Physiology</td>
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<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Preparing for College &amp; Careers</td>
<td>Interpersonal Relationships</td>
<td>Health Science 1 (PCCTE)</td>
<td>Fire/Rescue 1 (PCCTE)</td>
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<tr>
<td>Other Elective Courses for this Pathway</td>
<td>World Language</td>
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<td>World Language</td>
<td>Fine Arts</td>
<td>Personal Finance, Digital Application, &amp; Responsibility, Advanced Health, Substance Abuse, Intro to Athletic Training, Psychology, Sociology, Career Exploration Internship</td>
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**industry recognized certification**
CPR/AED/AHA* or Medical Technician (EMT-B)
*Cannot be used for Technical Honors Diploma/Graduation Pathway

**Post-Secondary Courses Aligned for Potential Dual Credit**
- **IVY TECH (PCCTE)**
  - PARM 102 Emergency Medical Technician
- **IU/IVY TECH/USI/BALL STATE (CHS)**
  - Will vary depending on student course selections
  - *See CHS Concurrent Enrollment Offerings
### Indiana College & Career Pathway Plan

**Career Cluster: Public Safety**

**Pathway: Fire & Rescue**

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**Career Technical Education/Career Prep Courses for this Pathway**

- Preparing for College & Careers
- Interpersonal Relationships
- Fire & Rescue 1 (PCCTE)

**Other Elective Courses for this Pathway**

- World Language
- Fine Arts
- Personal Finance, Digital Application & Responsibility, Robotics 1/2, Career Exploration Internship

**Industry Recognized Certification**

- Firefighter 1 & 2

**Post-Secondary Courses Aligned for Potential Dual Credit**

- IVY TECH (PCCTE)
  - HSPS 165: Firefighter 1
  - HSPS 167: Firefighter 2
  - HSPS 106: Fire Suppression
  - HSPS 121: Hazmat
- IU/IVY TECH/USI/BALL STATE (CHS)
  - Will vary depending on student course selections

**Post-Secondary Possibilities**

- **Associate Degree:**
  - Engineering Technology, Biotechnology, Informatics, Design Technology
- **Bachelor’s Degree:**
  - Engineering (various types), Static, Meteorology, Microbiology, Chemistry

**Careers**

- Engineer (various types)
- Chemist

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**STEM: Science, Technology, Engineering, & Math**

Planning, managing and providing scientific research and professional and technical services including laboratory and testing services and research and development services; apply math, science and technology to solve problems in design, development or production in various industries.

---

**Not Offering Complete Pathway**

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**Recommended 4th Year**

- World Geography /History
- PE

---

**Recommended 4th Year**

- World Language
- World Language
- Recommended 4th year
indiana college & career pathway plan

Career cluster: STEM
Pathway: Engineering

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<td>Physics</td>
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<td>World Geography/History, Health</td>
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<tr>
<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Intro to Engineering Design Preparing for College &amp; Careers</td>
<td>Principles of Engineering</td>
<td>Computer Integrated Manufacturing or Civil Engineering &amp; Architecture</td>
<td>Engineering Design &amp; Development</td>
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<tr>
<td>Other Elective Courses for this Pathway</td>
<td>World Language, Fine Arts, Personal Finance, Digital Applications &amp; Responsibility, Robotics 1/2, Introduction to Construction, Career Exploration Internship, Computers in Design/Production Systems 1/2, Introduction to Manufacturing 1/2</td>
<td>World Language</td>
<td>World Language</td>
<td>Recommended 4th year</td>
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</tbody>
</table>

industry recognized certification

None

post-secondary courses aligned for potential dual credit

IVY TECH (PCCTE)

None

IU/IVY TECH/USI/BALL STATE (CHS)

Will vary depending on student course selections

*See CHS Concurrent Enrollment Offerings

transportation

Careers include the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

pathways

Automotive Technology
Diesel Service Technology

Post-secondary possibilities

Associate Degree:
Automotive Technology
Aviation Maintenance Technology
Aviation Manufacturing

Careers

Auto Body Repair Technician, Truck Driver, Damage Appraiser, Automotive Service Technician, Automotive Service Manager, Diesel Technician, Aviation Repair Technician
Indiana College & Career Pathway Plan

Career Cluster: Transportation
Pathway: Automotive Technology

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<td>Career Technical Education/Career Prep Courses for this Pathway</td>
<td>Intro to Transportation 1</td>
<td>Intro to Manufacturing 1/2</td>
<td>Automotive Services Technology 1 (PCCTE)</td>
<td>Automotive Services Technology 2 (PCCTE)</td>
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Other Elective Courses for this Pathway

World Language
Fine Arts
Personal Finance, Digital Applications & Responsibility, Entrepreneurship, Introduction to Business, Career Exploration Internship

Recommended 4th year

Industry Recognized Certification
Automotive Service Excellence (ASE) Certification

Post-secondary courses aligned for potential dual credit

IVY TECH (PCCTE)
AUTI 100: Basic Auto Service
AUTI 111: Electrical
AUTI 121: Braking Systems
AUTI 122: Steering & Suspension
AUTI 131: Engine Performance
AUTI 141: Engine Repair

IU/IVY TECH/USI/BALL STATE (CHS)
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings

Indiana College & Career Pathway Plan

Career Cluster: Transportation
Pathway: Diesel Service Technology

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<td>Intro to Transportation 1</td>
<td>Intro to Manufacturing 1/2</td>
<td>Diesel Service Technology 1 (PCCTE)</td>
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Other Elective Courses for this Pathway

World Language
Fine Arts
Personal Finance, Digital Applications & Responsibility, Entrepreneurship, Introduction to Business, Career Exploration Internship

Recommended 4th year

Industry Recognized Certification
Automotive Service Excellence (ASE) Certification

Post-secondary courses aligned for potential dual credit

VINCENNES UNIVERSITY (PCCTE)
DESL 110 w/ lab: Diesel Electrical
DESL 130 w/ lab: Diesel Engine Systems

IU/IVY TECH/USI/BALL STATE (CHS)
Will vary depending on student course selections
*See CHS Concurrent Enrollment Offerings