



GRADUATION PATHWAYS & NEXT LEVEL PROGRAMS OF STUDY



2026-2027 GUIDEBOOK

HOW TO USE

Information about career pathways can feel overwhelming. In this guide, we have tried to include easy-to-follow charts and visuals to help communicate the complexity of career pathways. From the table of contents, you can easily find what pathway may be of most interest to you.

PARENTS

Can learn about the offerings available through the Next Level Programs of Study in Lawrence Township. All pathways lead to viable career opportunities for students. Information about how NLPS can help meet graduation requirements, occupational data for career clusters, and guidance on what resources are available to your students throughout their high school journey are available in the guide.



STUDENTS

Can explore dozens of career options available through Next Level Programs of Study courses offered through their High School and McKenzie Center for Innovation & Technology. Tools and resources are included or referenced within the Career Guide to help you determine your interests and choose classes. Using the guide alongside conversations with counselors, parents, and other advisors can help you make the most of your high school experience and get on the path to a fulfilling career.



Industry & Community Partners

Can find crucial information related to Next Level Programs of Study in Lawrence Township in one place. Interested Businesses & Community Partners looking to expand their talent pipeline may offer Work Based Learning, Apprenticeship or Job Shadow arrangements aligned to Pathways that match their talent pipeline goals.



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Parents, Students and Community Members,

We are excited to share with you the Lawrence Township Next Level Programs of Study. For Students, the High School experience is a launching pad for a lifetime of opportunities and endless possibilities. In a learning community as vast as ours, the definition of success and the pathway to achieve it is as diverse as our students. Whether pursuing college after high school or entering the workforce, the programs outlined in this guide are designed to provide a wide range of opportunities. For students who continue their education beyond high school, these programs offer a host of benefits including college credit, connections to meaningful employment opportunities, and a host of skills that transfer to any career. For students entering the workforce upon graduation, successful completion of one of these programs prepares students to earn a liveable wage in high demand fields, offering a chance to advance quickly.

To families, thank you for trusting us to walk alongside you as we guide your student to success. For students, thank you for being willing and open to try new things. It is an honor to walk with you on this journey. For our community, thank you for supporting us as we build and sustain a high school experience that will help feed our local demand for highly skilled and qualified graduates.

Sincerely,

F. Bush *Chauntee L. Smith* *Brett H. Crousore*



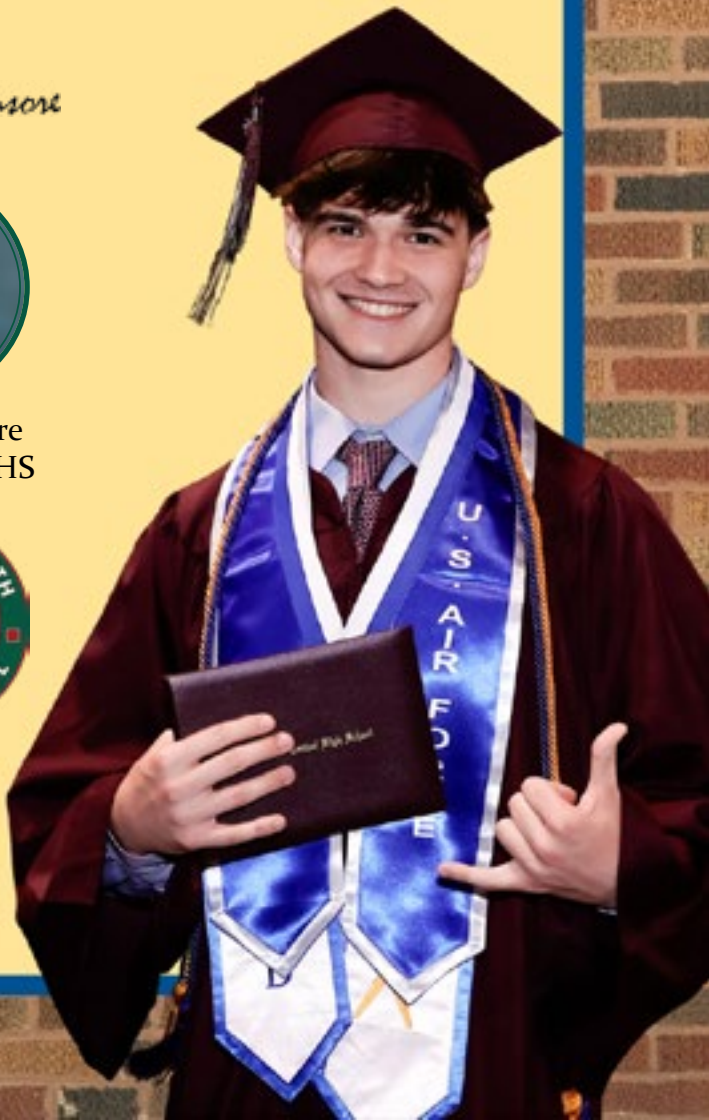
Franklyn Bush
Principal, LCHS



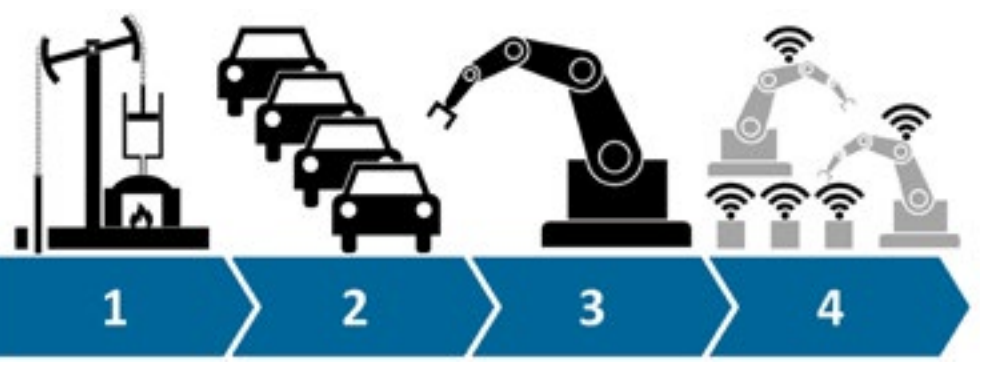
Chauntee Smith
Director, MCIT



Brett Crousore
Principal, LNHS



THE NEW ECONOMY



BY THE NUMBERS



High school students today graduate into a different world than the one their parents did. Technological advancement, as well as factors like the pandemic, are causing rapid changes to our political, social, education and economic systems. The traditional career pattern of going to school early in your life, specializing in one field or job and then working in that field/job until you retire is outdated. It is expected that current students will hold an average of 17 different jobs across 5 different industries throughout their working lives. This means that the average student will change jobs every 3-5 years. Furthermore, 65% of the jobs expected to be available in the market in 2032 do not yet exist.

These concepts are important for students and families to keep in mind as they navigate this guide. Through Next Level Programs of Study, some students will discover a passion and launching point for a life-long career. However, this is unlikely for most. Instead, most students will use NLPS as a tool to go through the up-skilling cycle once before they graduate. In doing so, students gain valuable experience in learning and applying new technical skills, earning industry-recognized credentials and gaining meaningful experience through employment.

UPSKILLING

THE "LEARN > EARN > EMPLOYED" CYCLE



All career preparation begins with a cycle of learning. In some cases, this is done in a formal setting such as a college, trade school or even on-line classes. In other cases, the learning is less formal through on-the-job training, apprenticeships or first-hand experiences.



Potential employees communicate their readiness for a given job to an employer through an earned credential such as a degree, license, certification or credit. Employers use these credentials to quickly screen for new candidates.



With students entering into new jobs every 3-5 years throughout their career, we can reasonably predict that they will go through this full cycle several times. NLPS provides students with the opportunity to become proficient at navigating this cycle before graduation.



GRADUATION REQUIREMENTS

For Class of 2029 & Beyond

CURRENT INDIANA CORE40

FUTURE NEW INDIANA DIPLOMA

ENGLISH	8 CREDITS		8 CREDITS	2 credits: English 9 1 credit: Communications-focused course 5 additional English credits
MATH	6 CREDITS	2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II	7 CREDITS	2 credits: Algebra I 1 credit: Personal Finance 4 additional math credits
SCIENCE, TECHNOLOGY, AND ENGINEERING	6 CREDITS	2 credits: Biology I 2 credits: Chemistry 1, Physics I, or Integrated Physics 2 credits: Any Core 40 science course	7 CREDITS	2 credits: Biology I 1 credit: Computer Science 2 additional science credits 2 STEM-focused credits
SOCIAL STUDIES	6 CREDITS	2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or Geography/History of the World	5 CREDITS	2 credits: U.S. History 1 credit: U.S. Government 2 credits: World Perspectives (Flexible options, including advanced world language or world-focused social studies courses)
PE/HEALTH	3 CREDITS	2 credits: Physical Education 1 credit: Health & Wellness	2 CREDITS	1 credit: Physical Education 1 credit: Health & Wellness
DIRECTED ELECTIVES	5 CREDITS	Any combination of World Languages, Fine Arts, and/or Career & Technical Education	N/A	
PERSONALIZED ELECTIVES	6 CREDITS		12 CREDITS	Students are encouraged to utilize the new readiness-seals to align these personalized electives with their unique goals. Personalized electives can include a variety of courses, such as CTE, Performing or Fine Arts, and World Languages.
COLLEGE & CAREERS	N/A		1 CREDIT	1 credit: Preparing for College & Careers
TOTAL	40 CREDITS		42 CREDITS	

Hoosier high school students have the opportunity to earn approximately 60 credits.

Note: The federally-required alternate diploma for students in special education with a significant cognitive disability is still available.



ENROLLMENT



EMPLOYMENT



ENLISTMENT & SERVICE



HONORS SEAL

- Complete at least 4 World Language and 6 Social Studies credits
- Complete at least 8 Math credits
 - Algebra I plus Geometry, Algebra II, and Pre-Calculus or any advanced math credits aligned to their course of study
- Complete at least 6 Science credits
 - Biology I plus Chemistry and Physics or any advanced lab science credits aligned to their course of study
- Earn a C or higher in all courses and earn a cumulative B average
- Complete one of the following:
 - Earn 4 credits in AP, IB, or Cambridge courses and take corresponding exams
 - Earn 6 college credits
 - Score a 1250 on the SAT or a 26 on the ACT
 - Earn two of the following:
 - At least 3 college credits
 - 2 credits in AP courses and take corresponding exams
 - 2 credits in IB courses and take corresponding exams
 - 2 credits in Cambridge courses and take corresponding exams

- Complete one of the following:
 - A market-driven credential of value* aligned to a specific occupation
 - 3 courses in a Career and Technology Education (CTE) pathway
 - An approved career preparation experience aligned to Indiana's CSA program, or
 - An approved, locally-created pathway
- Complete 150 hours of work-based learning (may include multiple experiences that are paid, unpaid, on-site, or simulated)
- Demonstrate skill development in Communication, Collaboration, and Work Ethic
- Meet attendance goal

- Complete one of the following:
 - Introduction to Public Service course or approved locally-created equivalent
 - Emphasis on developing an awareness of the physical standards and character required for service
 - One year of JROTC in high school
- Achieve a score of 31 on the ASVAB and complete one of the following:
 - All three components of the Career Exploration Program
 - A career exploration tool approved by IDOE
- Meet attendance goal
- Demonstrate skill development in Communication, Collaboration, and Work Ethic
 - Externally verified through a mentorship experience with current military personnel, veterans, or other public safety professionals



HONORS PLUS SEAL

Earn the Honors Enrollment Seal, **plus**:

- Earn a credential of value* that may include, for example:
 - Associate degree;
 - Technical Certificate;
 - Indiana College Core;
 - AP Scholar with Distinction;
 - Cambridge AICE Diploma; or
 - IB Diploma
- Complete at least 75 hours of work-based learning (may include multiple experiences that are paid, unpaid, on-site, or simulated)
- Demonstrate skill development in the following areas: Communication, Collaboration, and Work Ethic

Earn the Honors Employment Seal, **plus**:

- Earn a market-driven credential of value* that may include, for example:
 - Associate degree;
 - Technical Certificate;
 - Indiana College Core; or
 - Advanced industry certificate
- Complete additional work-based learning (total of 650 hours in one or more experiences) that may include, for example:
 - Pre-Apprenticeship
 - Modern Youth Apprenticeship
- Demonstrate skill development in Communication, Collaboration, Work Ethic, and any additional skills determined locally

Earn the Honors Enlistment Seal, **plus**:

- Complete one of the following:
 - Achieve a score of 50 or higher on the ASVAB
 - Enrollment in ROTC at the collegiate level
 - Acceptance to a service academy
- Demonstrate excellence in leadership through one of the following:
 - Completion of at least 100 hours of public service;
 - Holding a leadership role in a co/extracurricular activity;
 - Completion of two seasons of a team-based physical sport or activity

*Note: the credential of value levels are currently being determined by business and industry.

2

Box 2: EMPLOYABILITY SKILLS:

- Completion of a Project-Based Learning Experience OR
- Completion of a Service-Based Learning Experience OR
- Completion of a Work-Based Learning Experience

PROJECT-BASED LEARNING

In Project-Based Learning (PBL), students are engaged in complex, authentic projects that require them to apply a set of learned skills and/or knowledge. In most cases, projects call for students to collaborate with each other and present the product of their work to a public audience. In LT, students experience PBL in a host of different ways throughout their high school experience. All Next Level Programs of Study will provide students with a minimum of one PBL experience.



SERVICE-BASED LEARNING

In Service-Based Learning (SBL), students apply newly learned skills and/or knowledge in the form of a community service project. Service Projects are often completed with the help of a community partner. While many students are actively involved in community service, to qualify as SBL, a given activity or community service arrangement must be documented and include a journaling or reflection component. Students interested in completing SBL should discuss options with their school counselor.



WORK-BASED LEARNING

In Work-Based Learning (WBL), students apply recently learned skills and/or knowledge while working for a local employer. Students engaged in WBL are often paid for their work and complete assignments that ask them to reflect on their experiences. For students, WBL can be a tremendous opportunity to gain real-world experience within a field of interest, while earning money and kick-starting a professional network. For businesses, WBL arrangements are powerful tools to recruit and attract young, diverse talent.



3

Box 3: POST-SECONDARY READINESS COMPETENCIES:

- Academic or Technical Honors Diploma
- Minimum Score on ACT, SAT or ASVAB
- State and/or Industry Recognized Credential or Certification

• Career-Technical Education Concentrator

- Federally-recognized Apprenticeship
- Complete 3 AP, IB or Dual-Credit Courses with a C Average
- Completion of a Locally-Created Pathway

While many students will satisfy more than one Box 3 requirement, we recommend that most students pursue a "Career & Technical Education Concentrator" by completing a **NEXT LEVEL PROGRAM OF STUDY**.



Next Level Programs of Study Explained

The Next Level Programs of Study (NLPS) are a series of 3-4 courses that students take during their high school career that will prepare them for a specific career pathway. Most of the NLPS include opportunities for students to earn college credit and industry recognized certifications. All students that complete an NLPS are prepared for meaningful employment in a career pathway upon graduation.

PRINCIPLES COURSE:

This course sets the foundation for a career pathway and students can begin earning dual credits as they learn content that is often applicable to multiple, closely related programs of study.

CONCENTRATOR COURSES:

Students acquire the core occupational skills needed for a particular occupation. Industry recognized certifications are integrated into these courses and students are able to obtain CTE concentrator status after completion of both courses.

PRINCIPLES COURSE:
2 CREDITS

CONCENTRATOR A COURSE:
2 CREDITS

CONCENTRATOR B COURSE:
2 CREDITS

EARN CTE CONCENTRATOR STATUS BY COMPLETING THESE THREE COURSES

CAPSTONE COURSE: 2+ CREDITS

After achieving CTE concentrator status, students can complete a program of study by enrolling in the Capstone course. Students will be able to complete all of the technical courses required for the post-secondary program and have time built in for work-based learning opportunities, such as internships, clinicals, or on-the-job training.



CAREER & TECHNICAL EDUCATION

NEXT LEVEL PROGRAMS OF STUDY (NLPS) OFFER ALL STUDENTS THE OPPORTUNITY TO BENEFIT FROM THE UNIQUE ELEMENTS OF CAREER & TECHNICAL EDUCATION (CTE).

REAL WORLD EXPERIENCE

CTE classes offered at McKenzie Center for Innovation & Technology offer unique real world experiences that cannot be found in other high school courses. CTE students learn by doing through hands-on lab experiences and on -the-job projects through work-based learning or career relevant experiences. Students have the opportunity to solve problems and create products using real equipment applicable

to their course's industry. Activities available through CTE include project-based learning challenges provided by industry, Career and Technical Student Organization (CTSO) competitions, opportunities to operate school-based businesses, and internships. Students often have the opportunity to work with and be mentored by a network of industry professionals.

CAREER & TECHNICAL STUDENT ORGANIZATIONS

Career and Technical Student Organizations (CTSO's) are CTE organizations available for students at McKenzie Center for Innovation & Technology that expose students to career awareness, career exploration and career preparation.

Students learn not only industry-specific skills, but also professional skills such as communications, teamwork and problem solving, which are valued by employers.



CREDENTIALS OF VALUE

DUAL CREDIT

Dual Credit courses offer high school students the opportunity to earn both high school and college credits in the same course. Taking Dual Credit courses prepares students for the transition to college and helps students jump ahead in their postsecondary education. In Indiana, courses are offered at little to no cost to the student.

Dual Credit courses are offered in partnership with Lawrence Township

College and University partners. Work with your counselor to review the list of Dual Credit courses available to you and see what might be a good fit with your strengths and interests.

Lawrence Township's partnership with Higher Education Partners in the development of Next Level Programs of Study helps ensure that dual credits obtained in high school are easily transferable .



CERTIFICATIONS

CTE offers students the chance to earn industry certifications while in high school. These are programs that are usually completed in a year or less and provide specialized training within a particular career path.

Many certifications that students can earn are part of Indiana's Promoted Industry Certifications List which recognizes certifications that are valued by industry, have transference to postsecondary training programs, and lead to quality employment. Eligible promoted certifications can also count towards Graduation.



HIGH QUALITY WORK-BASED LEARNING....

HIGH QUALITY WORK-BASED LEARNING ALLOWS STUDENTS TO LEARN FIRST-HAND WHAT IT TAKES TO BE SUCCESSFUL IN THE WORKFORCE BY APPLYING THEIR EDUCATION AND TECHNICAL SKILLS THROUGH ON-THE-JOB LEARNING.

These experiences within a chosen career pathway are an essential component to teach the “why” of what is being taught in the classroom and how it transitions to the workplace. Students often learn best through these experiences of acquiring skills in the context of their real world application.

WHAT IS HIGH QUALITY WORK-BASED LEARNING?

The Lawrence Township high quality work-based learning program, offers a combination of school and workplace learning with local employers. Students either work off-site at an employer’s location, or employers come on-site into the classroom.

Students learn first-hand how to operate in the workforce, learning what it takes to be successful while gaining both an education and valuable technical skills within their chosen career pathway.

EMPLOYABILITY SKILLS

Students learn not only industry-specific technical skills, but also professional skills valued by nearly all employers, including:

- Communications
- Problem Solving
- Teamwork
- Professionalism
- Attendance
- Positive Attitude
- Ability
- Willingness to Learn

HIGH QUALITY-WORK-BASED LEARNING CONTINUUM

Check out the pictured high quality work-based learning continuum that represents the type of work-based learning experiences a student may participate in throughout different phases of a career pathway.

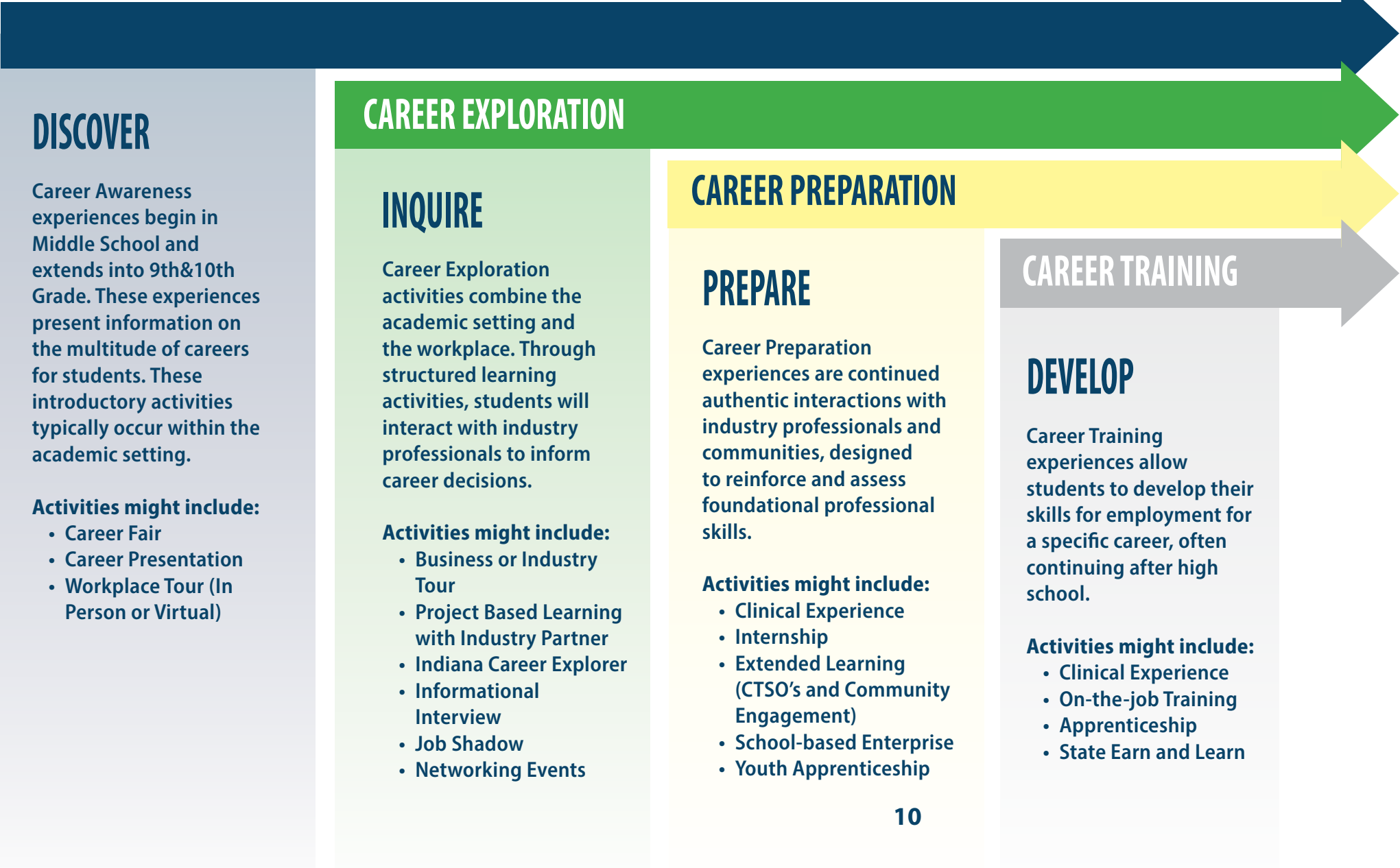
HIGH SCHOOL APPRENTICESHIPS

MCIT apprenticeship programs combine on-the-job learning with academic and technical classroom instruction. Students participating in high school apprenticeships may be able to earn college credits and industry certifications. Additionally, students have the opportunity to begin on a career path that can eventually lead to full-time employment. Students will often build off their high school apprenticeship by transitioning to a full-time registered apprenticeship or obtaining additional post-secondary education after high school.



High school apprenticeships are also a valuable tool for businesses by providing new talent streams and creating a direct link between employers and the talent development system.

Lawrence Township is actively pursuing partnerships to expand on existing apprenticeships through State Earn and Learn (SEAL) programs, Youth Apprenticeships, and Pre-Apprenticeships. Interested partners should contact the district via www.LTschoools.org or call MCIT Directly.



PRINCIPLES COURSES

Your Pathway
STARTS HERE

How do I get started on a Next Level Program of Study?

All programs begin with a “Principles Course”. In some cases, a principles course may provide students the option to choose between multiple related programs of study. Most principles courses are open to students beginning in the 9th grade. However, some require that students begin in the 10th grade. The list below gives you a quick snapshot of the principles courses by grade level requirement. More detailed information about each program of study is available in the NLPS overviews later in this guidebook (p13-).

WHICH PRINCIPLES COURSES ARE AVAILABLE FOR FRESHMEN?

- **Principles of Agriculture:** 2 Semesters | 9th or 10th Grade
Programs of Study: Horticulture (p13)
- **Principles of Business Management:** 2 Semesters | 9th or 10th Grade
Programs of Study: Accounting (p 17), Business Administration (p19), Entrepreneurship (p 21), Marketing & Sales (p 23), Civic Arts Pathway (See Counselor)
- **Principles of Biomedical Science:** 2 Semesters | 9th or 10th Grade
Program of Study: Biomedical Science & Technology (p37)
- **Principles of Biotechnology:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Biotechnology (p 63)
- **Principles of Culinary and Hospitality:** 2 Semesters | 9th or 10th Grade
Program of Study: Culinary Arts (p 49), Hospitality Management (p 53)
- **Principles of Computing:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: IT Operations (p 59), Software Development (p 61), Cybersecurity (p57)
- **Principles of Digital Design:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Digital Design (p 25)
- **Principles of Early Childhood Education:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Early Childhood Education (p 33)
- **Principles of Entrepreneurship:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Entrepreneurship (p 21)
- **Principles of Exercise Science:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Exercise Science (p 41)
- **Principles of Human & Social Services:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Entrepreneurship (p 55)
- **Introduction to Engineering Design:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Engineering (p 63)
- **Principles of Fashion & Textiles:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Fashion & Textiles (p27)
- **Principles of Interior Design:** 2 Semesters | 9th or 10th Grade
This class starts these Pathways: Interior Design (p29)



NEXT
LEVEL

WHICH PRINCIPLES COURSES ARE AVAILABLE FOR SOPHOMORES?

- **Principles of Construction Trades:** 2 Semesters | 10th or 11th Grade
This class starts these Pathways: Construction Trades [Carpentry] (p15)
- **Principles of Cosmetology & Barbering:** 2 Semesters | 10th or 11th Grade
This class starts these Pathways: Barbering (p 45), Cosmetology (p 47)
- **Principles of Criminal Justice:** 2 Semesters | 10th or 11th Grade
Programs of Study: Criminal Justice (p 51)
- **Principles of Automotive Technology:** 2 Semesters | 10th or 11th Grade
*This is a Double-Block Course. Programs of Study: Automotive Service (p 65), Automotive Collision Repair (p 65)
- **Principles of Healthcare & Medical Terminology:** 2 Semesters | 10th or 11th Grade
Program of Study: Certified Clinical Medical Assistant (p 39), Pre-Nursing / Healthcare Specialist (p 43)
- **Principles of Teaching:** 2 Semesters | 10th or 11th Grade
Program of Study: Education Professions (p 35)

FREQUENTLY ASKED QUESTIONS

Can I try more than one Program of Study?

Students will have a primary pathway that they will declare their freshman year. Students who would like to explore more than one pathway will have to get approval from their grade level administrator and be in good academic standing.

What if I start a Program of Study and find out that I don't like it? Can I switch?

Yes. One of the benefits of the NLPS experience is to determine if a given career path is the right “fit”. However, students should be cautious when switching Programs as doing so may put their Graduation Pathway status in jeopardy. Students should always consult their counselor for help in navigating the decision.

Can I take one of the Freshman Principles Courses as a Sophomore?

Yes. Beginning in the 10th Grade students are able to choose any of the 18 Principles Courses.

What are the benefits of completing a Next Level Program of Study?

- Satisfy Box 2 and 3 requirements for Graduation
- Prepares students for meaningful employment immediately upon Graduation
- In most cases, students can earn College Credit
- Students learn key employability skills such as working in teams, learning and applying new skills, and complex problem solving in real-world settings
- Students begin building a professional network in High School by interacting with local businesses and industry connections



HORTICULTURE SCIENCE PATHWAY

Agriculture, Food, and Natural Resources workers produce and sell a variety of products ranging from food and raw materials, and also help manage our environment. Agribusinesses produce livestock, field crops, and fruit and vegetable produce, along with processing these products and marketing them for consumers to purchase.

Pathway Sequence & Course Information

The Horticulture Science Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Agriculture: 2 Semesters | 9th or 10th Grade

Principles of Agriculture will cover the diversity of the agricultural industry and agribusiness concepts. Students will explore Agriculture, Food, and Natural Resources (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.

YEAR 1



Horticultural Science - NLPS: 2 Semesters | 10th or 11th Grade

Horticulture Science is a course that provides students with a background in the field of horticulture. 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 reproduction, propagation of plants, plant growth, growth media, greenhouse production, and more.

YEAR 2



Greenhouse and Soilless Production: 2 Semesters | 11th or 12th Grade

Greenhouse and Soilless Production is a 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. Students will utilize the school greenhouse as a part of this course.

YEAR 3



Horticulture Capstone: 2+ Semesters | 12th Grade

The Horticulture Capstone builds upon knowledge and skills developed in the Principles, Horticulture 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.

YEAR 4

HOLTICULTURE SCIENCE PATHWAY

Pathway Highlights:

1

DIPLOMA OPTIONS

- ☒ Core 40
- ☒ Academic Honors
- ☒ Technical Honors
- ☒ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ☒ Project-Based Learning
- ☒ Work-Based Learning

3

POST-SECONDARY READINESS

- ☒ CTE Concentrator
- ☒ Industry Credentials
- ☒ Dual-Credit

Dual Credit & Industry Certifications

Under Development

In-Demand Agriculture Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Veterinary Technician	\$29,760	27%	1,637
	Farm Equipment Mechanic and Service Technician	\$37,950	11%	1,708
	Agricultural Food and Science Technician	\$40,440	6%	854
	Horticultural Supervisor	\$47,220	15%	1,108
Associate's Degree	Precision Agriculture Technician	\$45,520	12%	1,457
	Environmental Science & Protection Technician	\$47,530	18%	927
Bachelor's Degree	Environmental Scientist and Specialist	\$60,340	18%	988
	Food Scientist and Technologist	\$67,320	7%	553



CONSTRUCTION TRADES (CARPENTRY) PATHWAY

Construction Trades workers help to build the school you attend, the buildings where people work, the homes where people live and roads people drive on. Our community relies on Construction Trades workers to build, maintain and repair the world around us. There is a shortage of skilled workers in the Construction Trades. Successful students are in high-demand and stand to gain from tremendous growth opportunities after graduation.

Pathway Sequence & Course Information

The Construction Trades Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This Pathway begins in the 10th Grade and requires concurrent enrollment in the Year 2 courses. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Construction Trades: 2 Semesters | 10th or 11th Grade

This course prepares students with the basic skills needed to continue in a construction trade field. Topics will include an introduction to the types and uses of common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally students will apply communication and mathematics skills within the context of the construction industry.

YEAR 1



Construction Trades - General Carpentry: 2 Semesters | 11th or 12th Grade

This course builds upon the skills learned in the Principles of Construction Trades and examines the basics of framing. This includes studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist and roof framing, and basic stair layout. This course is required to be taken concurrently with Construction Trades - Framing & Finishing as a double-block.

YEAR 2
(CONCURRENT)



Construction Trades - Framing & Finishing: 2 Semesters | 11th or 12th Grade

This course prepares students with advanced framing skills along with interior and exterior finishing techniques. Topics include roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, ceiling trim, and cabinet installation. Students also are exposed to basic electrical, HVAC, and plumbing installation.



Construction Trades Capstone: 2+ Semesters | 11th or 12th Grade

The Construction Trades Capstone course covers the basics of electricity and working with concrete. Electrical topics include the National Electric Code, electrical safety, electrical circuits, basic electrical construction drawings, and residential electrical services. Students may also gain an understanding of concrete properties, foundations, slab-on-grades, and vertical and horizontal formwork. The course prepares students for the NCCER Carpentry Forms Level 3 and Electrical Level 1 certificates.

YEAR 3
(OPTIONAL)

CONSTRUCTION TRADES (CARPENTRY) PATHWAY - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning
- ✓ Work-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Industry Credentials
- ✓ Dual-Credit

Dual Credit & Industry Certifications

Dual Credit

Successful students may earn dual-credit via Ivy Tech Community College.



Industry Certifications

Certifications offered include:

- NCCER Core Certification
- NCCER Carpentry Level 1
- NCCER Carpentry - Framing & Finishing Level 2



In-Demand Construction-Trades Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Carpenter	\$43,280	9%	20,374
	HVAC Technician	\$44,060	17%	7,771
	Plumber & Pipefitter	\$57,400	18%	13,808
	Electrician	\$57,680	10%	987
Associate's Degree	Interior Designer	\$50,850	8%	987
	Architectural and Civil Drafter	\$50,900	12%	1,354
	Construction Manager	\$81,710	11%	5,468
Bachelor's Degree	Architect	\$83,930	9%	1,029
	Architectural and Engineering Manager	\$115,410	9%	3,068



ACCOUNTING PATHWAY

Accounting is the process of recording financial transactions usually pertaining to a business or organization. Financial statements are prepared to deliver an accurate summary of an organization's financial position and operations. Students that complete the Accounting Pathway will be prepared for entry level accounting jobs such as billing and processing clerks. If interested, students will also be well prepared to further pursue accounting in college.

Pathway Sequence & Course Information

The Accounting Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Business Management: 2 Semesters | 9th or 10th Grade

Principles of Business Management examines business ownership, organization principles and problems, management, and financial practices of business enterprises. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software. This course serves as the entry point to multiple Business related pathways.

YEAR 1



Accounting Fundamentals: 2 Semesters | 10th or 11th Grade

This course 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.

YEAR 2



Advanced Accounting: 2 Semesters | 10th, 11th or 12th Grade

Advanced Accounting expands on the Generally Accepted Accounting Principles (GAAP) and procedures for various forms of business ownership using double-entry accounting covered in Accounting Fundamentals, including an emphasis on payroll accounting. Emphasis is placed on applying Generally Accepted Accounting Principles through hands-on practice with popular commercial accounting software packages that are currently used in business.

YEAR 3



Accounting Capstone: 2+ Semesters | 11th or 12th Grade

The Accounting Capstone course will emphasize Managerial Accounting concepts and Income Tax Accounting for individuals and sole proprietorships. Topics include general versus cost accounting systems, cost behavior, cost-volume profit analysis, budgeting, standard cost systems, responsibility accounting, incremental analysis, and capital investment analysis.

YEAR 4

ACCOUNTING PATHWAY - CONTINUED

Graduation Pathways Requirements

- 1** **DIPLOMA OPTIONS**
- ☒ Core 40
 - ☒ Academic Honors
 - ☒ Technical Honors
 - ☒ New Indiana Diploma Class of 2029 + Beyond

- 2** **EMPLOYABILITY SKILLS**
- ☒ Project-Based Learning
 - ☒ Work-Based Learning

- 3** **POST-SECONDARY READINESS**
- ☒ CTE Concentrator
 - ☒ Industry Credentials
 - ☒ Dual-Credit

Dual Credit & Industry Certifications

Dual Credit

Students may earn college credit through our dual-credit partner, Ivy Tech Community College.



Industry Certifications

Students may earn industry certifications in Quickbooks from Intuit.



In-Demand Business Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Tax Preparer	\$34,840	17%	3,081
	Billing Clerk	\$35,460	14%	10,769
	Insurance Claims and Policy Processing Clerk	\$37,610	10%	4,995
Associate's Degree	Insurance Sales Agent	\$58,910	9%	11,589
	Financial Services Sales Agent	\$96,940	5%	4,215
Bachelor's Degree	Accountant and Auditor	\$65,880	11%	22,345
	Personal Financial Advisor	\$104,710	16%	4,070
	Financial Manager	\$113,150	19%	7,896



BUSINESS ADMINISTRATION PATHWAY

Business Administration is responsible for supporting the day-to-day activities of businesses, including executives overseeing the business, human resources managing people, training that develops people, or administrative tasks that support all aspects of the business. In this pathway, students are exposed to a broad spectrum of business related topics including the management of people and finances.

Pathway Sequence & Course Information

The Business Administration Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Business Management: 2 Semesters | 9th or 10th Grade

Principles of Business Management examines business ownership, organization principles and problems, management, and financial practices of business enterprises. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software. This course serves as the entry point to multiple Business related pathways.

YEAR 1



Management Fundamentals: 2 Semesters | 10th or 11th Grade

Management Fundamentals describes the functions of managers, including the management of activities and personnel. Describes the judicial system and the nature and sources of law affecting business. Studies contracts, sales contracts with emphasis on Uniform Commercial Code Applications, remedies for breach of contract and tort liabilities. Examines legal aspects of property ownership, structures of business ownership, and agency relationships.

YEAR 2



Accounting Fundamentals: 2 Semesters | 10th, 11th or 12th Grade

This course 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.

YEAR 3



Business Administration Capstone: 2+ Semesters | 11th or 12th Grade

The Business Administration Capstone course will allow students to explore advanced topics in business leadership including Human Resources and International Business. Additionally students will have the chance to complete Managerial Accounting. Throughout the course students will develop business communication skills through work on projects, labs, and simulations.

YEAR 4

BUSINESS ADMINISTRATION PATHWAY - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning
- ✓ Work-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Industry Credentials
- ✓ Dual-Credit

Dual Credit & Industry Certifications

Dual Credit

Students may earn college credit through dual-credit partnerships with Ivy Tech Community College and Indiana University.



Industry Certifications

Students may earn industry certifications in Microsoft Office Products.



In-Demand Business Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Tax Preparer	\$34,840	17%	3,081
	Billing Clerk	\$35,460	14%	10,769
	Insurance Claims and Policy Processing Clerk	\$37,610	10%	4,995
Associate's Degree	Insurance Sales Agent	\$58,910	9%	11,589
	Financial Services Sales Agent	\$96,940	5%	4,215
Bachelor's Degree	Accountant and Auditor	\$65,880	11%	22,345
	Personal Financial Advisor	\$104,710	16%	4,070
	Financial Manager	\$113,150	19%	7,896



ENTREPRENEURSHIP PATHWAY

Entrepreneurship is the act of creating, building, and scaling a business to generate a profit. It is common for an entrepreneur to be an innovator, creating a new product or idea or coming up with a way of doing things that can be turned into a business. In this pathway, students will gain the experience and knowledge needed to start and grow their own business. They will meet other Entrepreneurs and graduate inspired to create businesses that generate profit and serve their communities.

Pathway Sequence & Course Information

The Entrepreneurship Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Entrepreneurship: 2 Semesters | 9th or 10th Grade

Principles of Entrepreneurship focuses on students learning about their own strengths, character and skills and how their unique abilities can apply to entrepreneurship, as well as how an entrepreneurial mindset can serve them regardless of their career path. The course helps students to identify and evaluate business ideas while learning the steps and competencies required to launch a successful new venture.

YEAR 1



Entrepreneurial Operations 2 Semesters | 10th or 11th Grade

Teaches students key marketing skills—like advertising, social media, and branding—while introducing core financial concepts for starting a business. Students learn how to find funding, understand basic financial statements, manage budgets and cash flow, and create sales forecasts to support a new venture.

YEAR 2



New Venture Development: 2 Semesters | 10th, 11th or 12th Grade

Prepares students to create and grow their own businesses. The course covers key marketing and business strategies, choosing the right business structure, developing entrepreneurial plans, financing, and managing limited resources. Students also explore negotiations, insurance, logistics, and technology tools. By the end, students are equipped to tackle the core challenges of small business management and entrepreneurship.

YEAR 3



Small Business Operations Capstone 2+ Semesters | 11th or 12th Grade

The Business Management Capstone is an applied course, and students will be implementing the correct legal, business, human resources, operations, marketing and financial structures after de-risking their idea and launching their business.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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ENTREPRENEURSHIP PATHWAY - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Students may earn college credit through our dual-credit partner, Ivy Tech Community College.



In-Demand Business Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Tax Preparer	\$34,840	17%	3,081
	Billing Clerk	\$35,460	14%	10,769
	Insurance Claims and Policy Processing Clerk	\$37,610	10%	4,995
Associate's Degree	Insurance Sales Agent	\$58,910	9%	11,589
	Financial Services Sales Agent	\$96,940	5%	4,215
Bachelor's Degree	Accountant and Auditor	\$65,880	11%	22,345
	Personal Financial Advisor	\$104,710	16%	4,070
	Financial Manager	\$113,150	19%	7,896



MARKETING & SALES PATHWAY

Marketing careers focus on contributing information, ideas and research to help develop marketing strategies to sell a business's products or services. Sales people work specifically with customers to identify their needs, and sell them products and solutions that solve their needs or problems. Successful students will be prepared to work in customer-facing roles in business and retail.

Pathway Sequence & Course Information

The Marketing & Sales Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Business Management: 2 Semesters | 9th or 10th Grade

Principles of Business Management examines business ownership, organization principles and problems, management, and financial practices of business enterprises. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software. This course serves as the entry point to multiple Business related pathways.

YEAR 1



Marketing Fundamentals: 2 Semesters | 10th or 11th Grade

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.

YEAR 2



Strategic Marketing: 2 Semesters | 10th, 11th or 12th Grade

Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study 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.

YEAR 3



Small Business Operations Capstone: 2+ Semesters | 11th or 12th Grade

The Business Management Capstone is an applied course, and students will be implementing the correct legal, business, human resources, operations, marketing and financial structures after de-risking their idea and launching their business.

YEAR 4

MARKETING & SALES PATHWAY - CONTINUED

Graduation Pathways Requirements

- 1** **DIPLOMA OPTIONS**
- ☒ Core 40
 - ☒ Academic Honors
 - ☒ Technical Honors
 - ☒ New Indiana Diploma Class of 2029 + Beyond

- 2** **EMPLOYABILITY SKILLS**
- ☒ Project-Based Learning

- 3** **POST-SECONDARY READINESS**
- ☒ CTE Concentrator

Dual Credit & Industry Credentials

Dual Credit

Students may earn college credit through our dual-credit partner, Ivy Tech Community College.



In-Demand Business Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Tax Preparer	\$34,840	17%	3,081
	Billing Clerk	\$35,460	14%	10,769
	Insurance Claims and Policy Processing Clerk	\$37,610	10%	4,995
Associate's Degree	Insurance Sales Agent	\$58,910	9%	11,589
	Financial Services Sales Agent	\$96,940	5%	4,215
Bachelor's Degree	Accountant and Auditor	\$65,880	11%	22,345
	Personal Financial Advisor	\$104,710	16%	4,070
	Financial Manager	\$113,150	19%	7,896

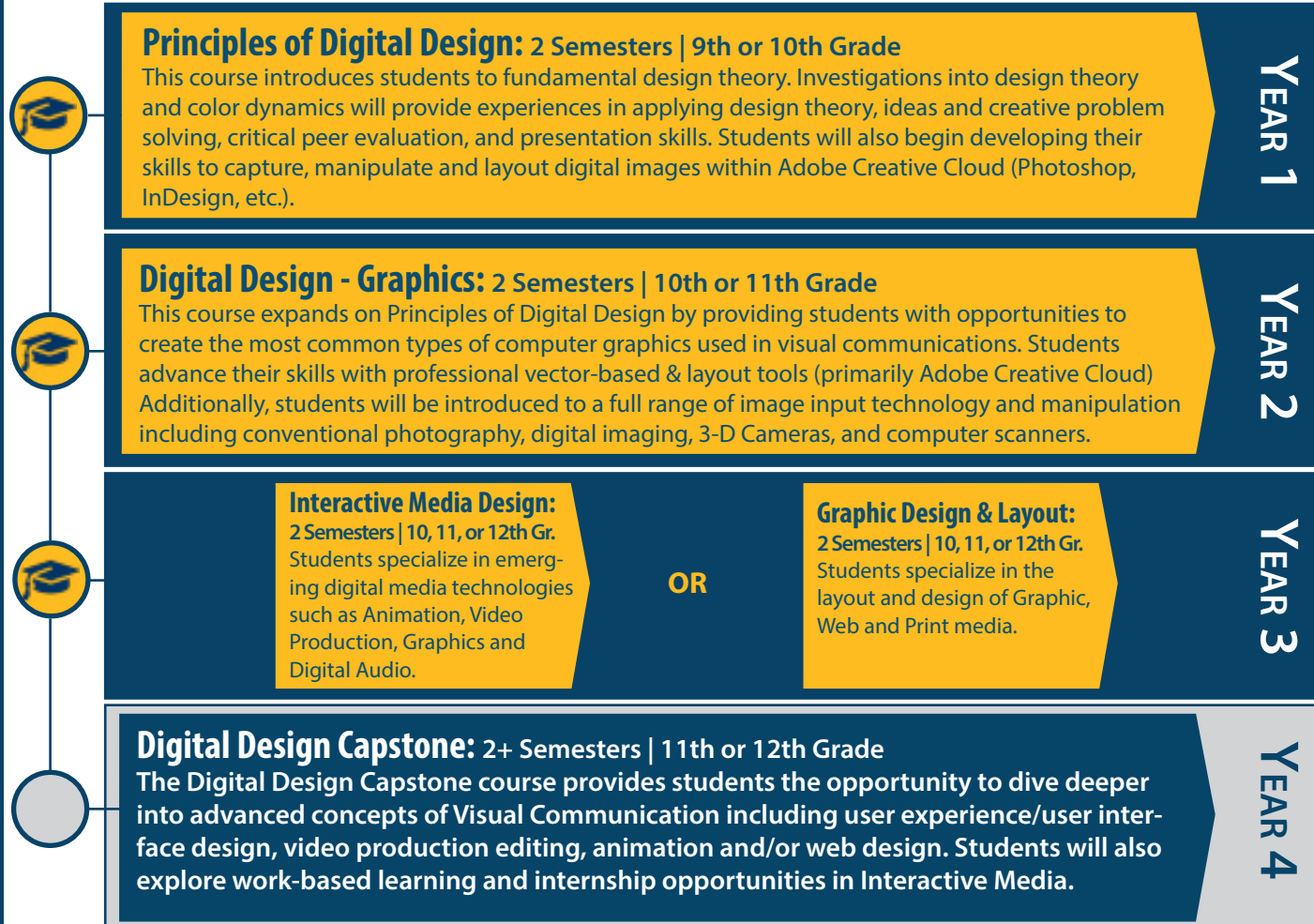


DIGITAL DESIGN PATHWAY

Digital Design involves working with computers, animation, video, and photography to create online media products that engage the user, including websites, online marketing campaigns, and interactive gaming apps. In this pathway, students gain valuable experience using professional equipment to create, modify, and publish media assets. Digital Design skills are in high-demand and can be applied to a multitude of future career pathways.

Pathway Sequence & Course Information

The Digital Design Pathway consists of a four course sequence. For the third course in the sequence, students have a choice in specialty. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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DIGITAL DESIGN PATHWAY - CONTINUED

Graduation Pathways Requirements

1	DIPLOMA OPTIONS	2	EMPLOYABILITY SKILLS	3	POST-SECONDARY READINESS
	- Core 40 - Academic Honors - Technical Honors - New Indiana Diploma Class of 2029 + Beyond		- Project-Based Learning - Work-Based Learning		- CTE Concentrator - Industry Credentials - Dual-Credit

Dual Credit & Industry Certifications

Dual Credit

Students may earn college credits for Interactive Media through our dual-credit partner, Ivy Tech Community College.



Industry Certifications

Students may earn Industry certifications through Adobe Digital Learning Services.



In-Demand Communications Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Broadcast Technician	\$33,300	1%	566
	Audio & Video Equipment Technician	\$34,170	13%	1,044
	Camera Operator - TV, Video, Motion Pic.	\$40,420	7%	293
Associate's Degree	Graphic Designer	\$41,550	4%	4,566
	Multimedia Artist & Animator	\$52,810	6%	333
	Commercial and Industrial Designer	\$63,700	11%	849
Bachelor's Degree	Art Director	\$68,170	5%	598
	Public Relations Specialist	\$55,460	10%	3,462



FASHION AND TEXTILE PATHWAY

Fashion and Textile includes the study of personal, academic, and career success. In this pathway you will focus on careers in the fashion, textile, and apparel industry; factors influencing the merchandising and selection of fashion, textile, and apparel goods and their properties of design, and production; and consumer skills to take to the workforce.

Pathway Sequence & Course Information

The Fashion and Textile Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Fashion Textile: 2 Semesters | 9th or 10th Grade

Principles of Fashion and Textiles prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the fashion industry. This course builds a foundation that prepares students for all aspects of the fashion creation process. Major topics include: Basic clothing construction techniques, pattern alterations, and use of commercial patterns.

YEAR 1



Textiles, Apparel, and Merchandising: 2 Semesters | 10th or 11th Grade

Textiles, Apparel, and Merchandising provides a comprehensive overview of the textiles, apparel, and merchandising industry specific to fashion related goods including the nature of fashion, raw materials and production, designers, retailers, and supporting services.

YEAR 2



Advanced Textiles: 2 Semesters | 11th or 12th Grade

Advanced Textiles will focus on the study of textiles concerning fiber, yarn, fabric construction, and finishes which affect the selection, use, and care of textiles.

YEAR 3



Fashion Textiles Capstone: 2 Semesters | 11th or 12th Grade

Fashion Textile Capstone studies the evolution of costume design from the ancient times to the twentieth century. Students will also focus on career exploration and experiences to become industry ready.

YEAR 4

Agriculture
13-15

Architecture
& Constr.
15-16

Business
17-24

Communication
Arts, AV,
& Tech.
25-32

Education
& Training
33-36

Health
Sciences
37-44

Hospitality &
Human
Services 45-56

Information
Technology
57-62

STEM
63-66

Transportation
67-68

FASHION AND TEXTILE PATHWAY - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator

Dual Credit & Industry Certifications

This pathway is currently under development. No dual-credit or industry certifications are currently offered within this pathway. However, we are actively exploring options for the future.

In-Demand Fashion and Textile Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Retail Sales Associate	\$25,500	4%	1.8 Mil
	Assistant Store Manager	\$45,000	6%	189,200
	Store Manager	\$67,000	4%	43,200
Associate's Degree	Buyer	\$58,045	2%	45,000
	Advertiser	\$75,000	6%	34,000
	Merchandise Coordinator	\$40,000	10%	33,700
Bachelor's Degree	Pattern Maker	\$79,246	2%	740
	Fashion Trend Analyst	\$68,320	3%	2,300



INTERIOR DESIGN PATHWAY

Our Interior Design Program guides students through the fundamentals of design theory, color dynamics, and construction knowledge, emphasizing the application of materials, finishes, and textiles in interior design projects. The program concludes with a hands-on work-based learning capstone, providing practical experience and cultivating critical thinking skills for a successful career in the dynamic field of interior design.

Pathway Sequence & Course Information

The Interior Design Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Interior Design: 2 Semesters | 9th or 10th Grade

Principles of Interior Design introduces students to fundamental design theory and color dynamics as applied to compositional design. Investigations into design theory and color dynamics will provide experiences in applying design theory to three-dimensional concepts, human factors and the psychology and social influences of space. These experiences will develop student's skills in creative problem solving, peer evaluation, and presentation skills.

YEAR 1



Interior Design Fundamentals: 2 Semesters | 10th or 11th Grade

Interior Design Fundamentals offers students a comprehensive overview of the field, covering essential construction knowledge and skills. The course includes exercises in space analysis, functional planning, furniture selection, materials, finishes, and presentation techniques. Students also learn about building practices, structures, residential construction, materials, plan reading, building codes, sustainable design, and the preparation of construction-related drawings and renderings.

YEAR 2



Materials, Finishes, and Design: 2 Semesters | 11th or 12th Grade

Materials, Finishes, and Design examines the physical properties and characteristics of furniture, materials, finishes, and architectural detailing. The course includes an intensive study of textiles, including fiber sources, identification and classification to finish and sustainable qualities. Students will apply textile knowledge to interior textile fabrications including window treatments, upholstery, carpet and wall coverings.

YEAR 3



Interior Design Capstone: 2 Semesters | 11th or 12th Grade

Interior Design Capstone course is designed to provide students a chance to extend their knowledge and skills through additional course work and a work-based learning experience.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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INTERIOR DESIGN PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- ☒ Core 40
- ☒ Academic Honors
- ☒ Technical Honors
- ☒ New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- ☒ Project-Based Learning

3 POST-SECONDARY READINESS

- ☒ CTE Concentrator

Dual Credit & Industry Certifications

This pathway is currently under development. No dual-credit or industry certifications are currently offered within this pathway. However, we are actively exploring options for the future.

In-Demand Interior Design Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Junior Designer	\$48,475	3%	6,800
	Graphic Designer	\$50,391	3%	6,800
Associate's Degree	Interior Decorator	\$55,514	1%	1,000
Bachelor's Degree	Art Director	\$75,379	4%	4,700
	Design Manager	\$79,191	2%	4,400
	Furniture Designer	\$90,000	3%	980
	Architect	\$180,000	3%	3,300



RADIO & TELEVISION PATHWAY

Radio & Television Broadcasting includes both presenting and delivering news, weather, sports, and featured stories as a broadcaster or reporter, as well as the technical production as a camera operator or production technician. Successful students can expect to work with cutting edge communications technology and assist with the development and distribution of content to a school-wide and community-wide audience.

Pathway Sequence & Course Information

The Radio & Television Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Broadcasting: 2 Semesters | 9th or 10th Grade

The purpose of the Principles of Broadcasting course is to provide entry-level fundamental skills for students who wish to seek or pursue opportunities in the field of broadcasting or mass media. Students will explore the technical aspects of audio and sound design for radio production and distribution, as well as the technical aspects of video production and distribution.

YEAR 1



Audio & Video Production Essentials: 2 Semesters | 10th or 11th Grade

Audio and Video Production Essentials provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development of the video production process; including skills in message development, directing, camera, video switcher, and character generator operations.

YEAR 2



Mass Media Production: 2 Semesters | 10th, 11th or 12th Grade

Mass Media Production will focus on the study of theory and practice in the voice and visual aspects of radio and television performance. In addition, this course introduces the skills used to acquire and deliver news stories in a digital media format. Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style.

YEAR 3



Broadcasting Capstone: 2+ Semesters | 11th or 12th Grade

The Broadcasting Capstone course provides students the opportunity to dive deeper into the production of Mass Media through a practicum experience which will broadcast student projects to the community. Students may also gain valuable experience working in internships and work-based learning arrangements with local media outlets.

YEAR 4

RADIO & TELEVISION PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- ☒ Core 40
- ☒ Academic Honors
- ☒ Technical Honors
- ☒ New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- ☒ Project-Based Learning

3 POST-SECONDARY READINESS

- ☒ CTE Concentrator

Dual Credit & Industry Certifications

This pathway is currently under development. No dual-credit or industry certifications are currently offered within this pathway. However, we are actively exploring options for the future.

In-Demand Communications Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Broadcast Technician	\$33,300	1%	566
	Audio & Video Equipment Technician	\$34,170	13%	1,044
	Camera Operator - TV, Video, Motion Pic.	\$40,420	7%	293
Associate's Degree	Graphic Designer	\$41,550	4%	4,566
	Multimedia Artist & Animator	\$52,810	6%	333
	Commercial and Industrial Designer	\$63,700	11%	849
Bachelor's Degree	Art Director	\$68,170	5%	598
	Public Relations Specialist	\$55,460	10%	3,462



EARLY CHILDHOOD EDUCATION PATHWAY

Early Childhood Education focuses on teaching preschool children, fostering social development, and building a foundation for learning. Students in this pathway will earn their Child Development Associate (CDA), work at MSDLT Early Learning Centers, and join the Indiana Department of Education Early Childhood Education Apprenticeship, which provides support and funding to continue working and learning in the field.



Pathway Sequence & Course Information

The Early Childhood Education Pathway consists of a four course sequence. The Year 2 Courses ought to be taken concurrently (Double-Block). Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



EARLY CHILDHOOD EDUCATION PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS ✓ Core 40 ✓ Academic Honors ✓ Technical Honors ✓ New Indiana Diploma Class of 2029 + Beyond	2 EMPLOYABILITY SKILLS ✓ Project-Based Learning ✓ Work-Based Learning	3 POST-SECONDARY READINESS ✓ CTE Concentrator ✓ Industry Certifications
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Dual Credit & Industry Credentials

Dual Credit

We are currently working to identify a dual-credit provider for this program.

Industry Certifications

Students may earn the Child Development Associate (CDA), a nationally recognized certification for Early Childcare Providers.



In-Demand Education Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Teacher Assistant	\$22,620	7%	27,801
	Preschool Teacher	\$26,900	9%	5,865
Associate's Degree	Special Education Teacher, Kindergarten and Elementary School	\$48,980	6%	2,031
	Elementary School Teacher	\$49,250	6%	20,454
	Middle School Teacher	\$51,400	6%	7,419
	Secondary School Teacher	\$51,870	6%	14,033
Bachelor's Degree	School and Guidance Counselor	\$51,950	11%	4,658

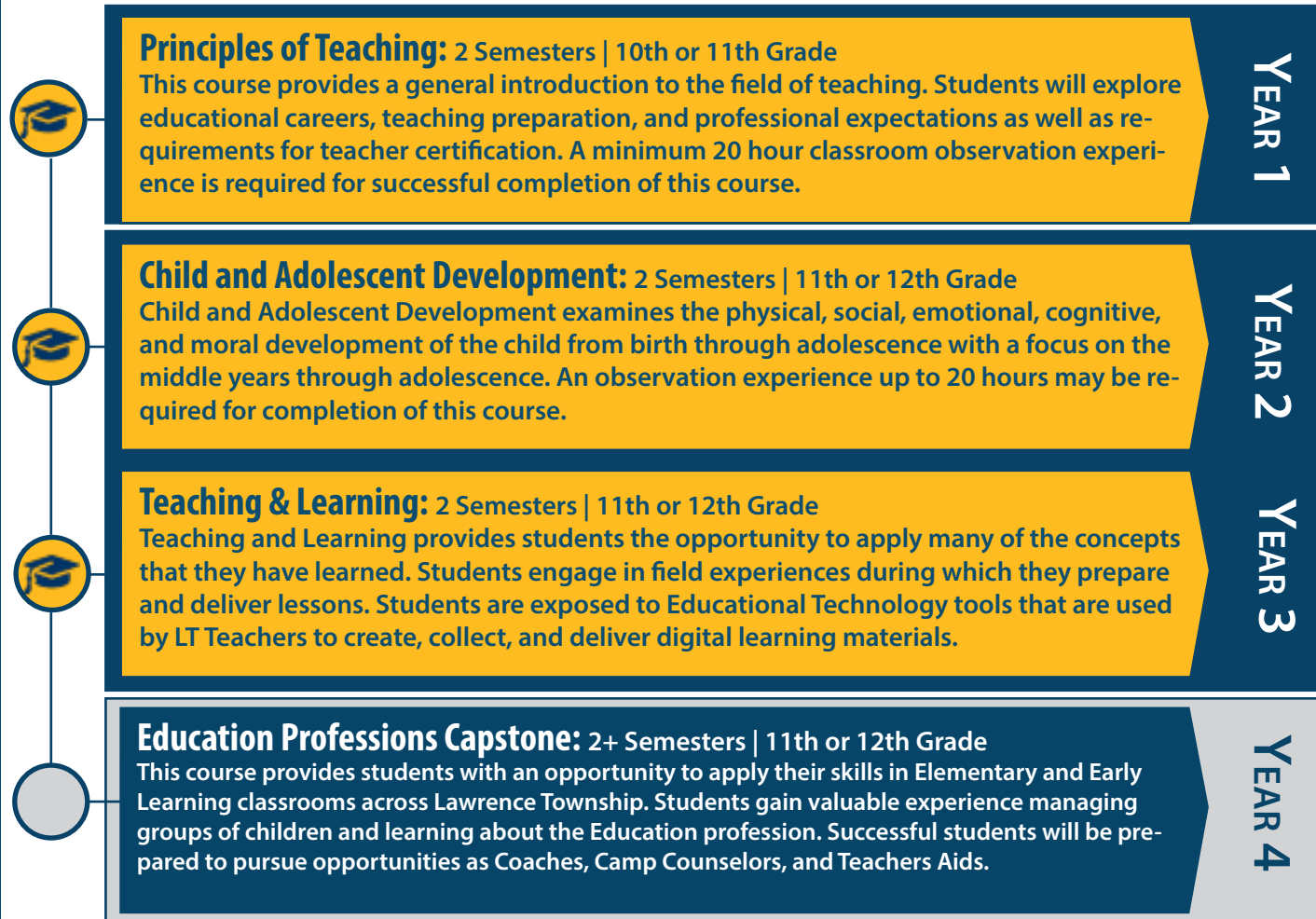


EDUCATION PROFESSIONS PATHWAY

Education Professions prepares students to pursue a career in Education. Students learn about the art and science of teaching from a unique blend of experiences including classroom observations, lesson design workshops, and internships. Through a unique partnership with Butler University, successful students get a head-start on the pathway to becoming a licensed teacher with the possibility of gaining valuable work experience in Lawrence Township Schools along the way!

Pathway Sequence & Course Information

The Education Professions Pathway consists of a four course sequence. The Year 2 Courses ought to be taken concurrently (Double-Block). Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



EDUCATION PROFESSIONS PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- ✓ Project-Based Learning
- ✓ Work-Based Learning

3 POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Through a partnership with Indiana State University, LT students may earn dual-credit that is able to transfer to ISU and other Indiana Colleges.



Industry Certifications

We are working to identify possible industry certifications for this program.

In-Demand Education Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Teacher Assistant	\$22,620	7%	27,801
	Preschool Teacher	\$26,900	9%	5,865
Associate's Degree	Special Education Teacher, Kindergarten and Elementary School	\$48,980	6%	2,031
	Elementary School Teacher	\$49,250	6%	20,454
	Middle School Teacher	\$51,400	6%	7,419
	Secondary School Teacher	\$51,870	6%	14,033
Bachelor's Degree	School and Guidance Counselor	\$51,950	11%	4,658



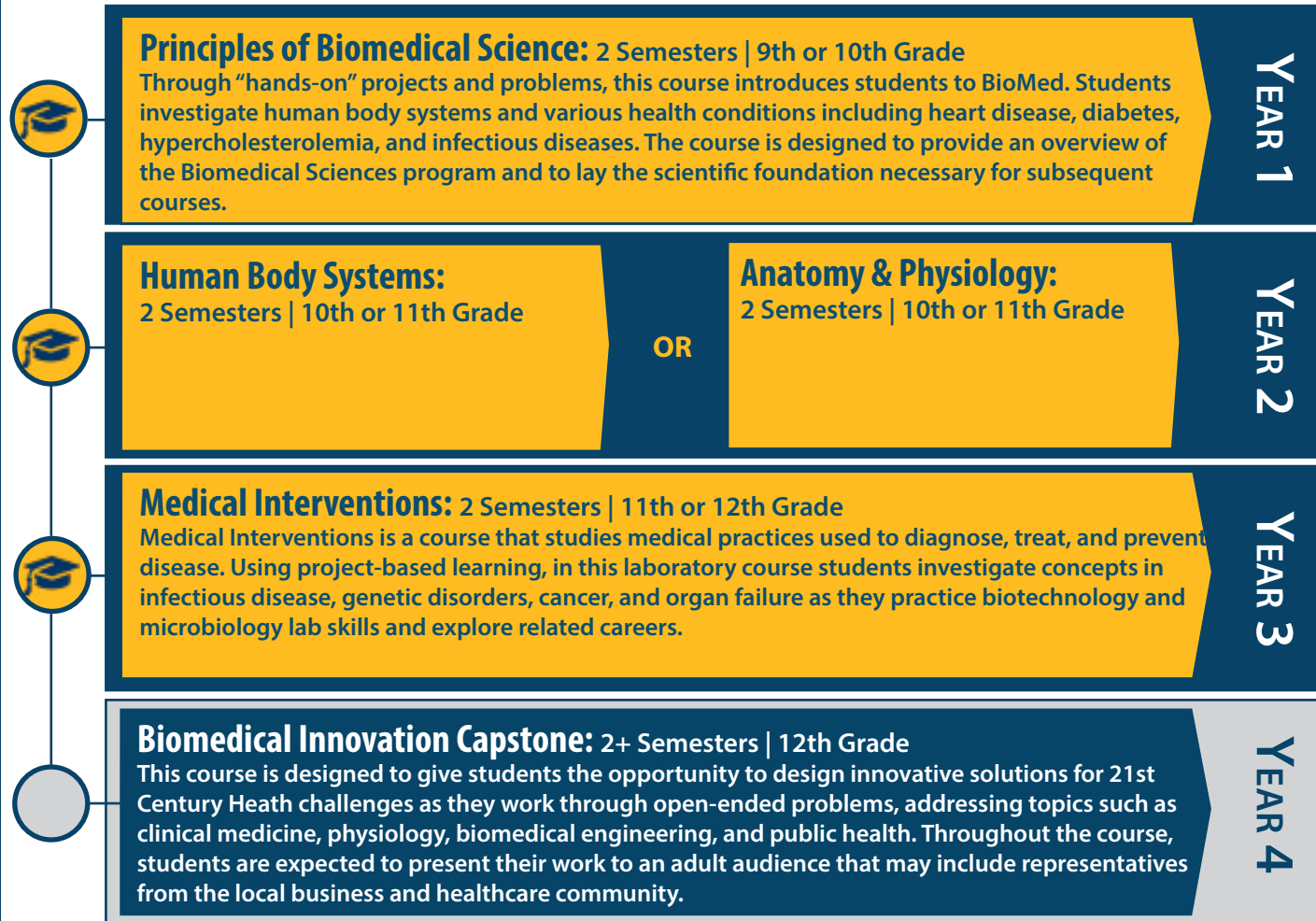
BIOMEDICAL SCIENCE PATHWAY

Biomedical sciences combines the fields of biology and medicine to develop knowledge, interventions, or technology that are of use in healthcare or public health. Students that study Biomedical Sciences at McKenzie are prepared to excel in college science courses and often go on to pursue advanced degrees in healthcare-related professions.



Pathway Sequence & Course Information

The Biomedical Sciences Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



BIOMEDICAL SCIENCE PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- Core 40
- Academic Honors
- Technical Honors
- New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- Project-Based Learning

3 POST-SECONDARY READINESS

- CTE Concentrator
- Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Students may earn college credits for Anatomy & Physiology through our dual-credit partner, Ivy Tech Community College.



Industry Connections

The Engineering program is part of the nationally recognized PLTW network. As such, students have access to a host of PLTW related resources and partnerships.



In-Demand Biomedical Science Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Healthcare Support Workers, All Other	\$31,030	15%	27,212
	Medical Equipment Preparers	\$32,640	5%	1,021
Associate's Degree	Licensed Practical or Vocational Nurse	\$41,540	12%	14,071
	Physical Therapist Assistant	\$55,950	32%	3,674
	Dental Hygienist	\$67,230	19%	4,236
Bachelor's Degree	Athletic Trainer	\$44,460	19%	437
	Dietitian and Nutritionist	\$55,680	16%	1,037
	Biochemist and Biophysicist	\$110,630	15%	262



CERTIFIED CLINICAL MEDICAL ASSISTANT PATHWAY

Certified Clinical Medical Assistants, or CCMA's, provide a variety of clinical task and work closely with doctors and nurses to provide patients with the care they need like assisting doctors and physicians with patient examination and monitoring and measuring patients vital signs. Successful students in this pathway earn their C.C.M.A License and are prepared to work full-time upon graduation. Students also may apply credit earned toward a LPN or RN program after high school.

Pathway Sequence & Course Information

The Certified Clinical Medical Assistant Pathway consists of a four course sequence. Year 1 courses should be taken concurrently as a Double-Block. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Healthcare: 2 Semesters | 11th Grade

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.



Healthcare Fundamentals: 2 Semesters | 11th Grade

Healthcare Fundamentals teaches students essential medical language skills, including abbreviations, symbols, and Greek and Latin word parts, all within the context of body systems. Students learn to pronounce, spell, and define medical terms used in healthcare. The course also introduces cells, tissues, and basic human anatomy, helping students develop the skills needed to communicate accurately and interpret medical records.



Certified Clinical Medical Assistant (CCMA): 2 Semesters | 11th or 12th Grade

CCMA prepare students for the National Healthcare Association CCMA exam. Instruction includes taking and recording vital sounds, preparing patients for examination, patient education, and assisting the physician during the exam. As well as other laboratory preparation and administrative duties.



Healthcare Specialist Capstone: 2+ Semesters | 12th Grade

The Capstone course provides students with Work-Based Learning, Apprenticeship and Internship opportunities with local and regional businesses. Students are matched with potential employers based on interest, skill and certification. Students gain valuable work experience, while also earning wages as they learn.

YEAR 1
(CONCURRENT)

YEAR 2

YEAR 3

Agriculture
13-15

Architecture
& Constr.
15-16

Business
17-24

Communication
Arts, AV,
& Tech.
25-32

Education
& Training
33-36

Health
Sciences
37-44

Hospitality &
Human
Services 45-56

Information
Technology
57-62

STEM
63-66

Transportation
67-68

CERTIFIED CLINICAL MEDICAL ASSISTANT PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- ☒ Core 40
- ☒ Academic Honors
- ☒ Technical Honors
- ☒ New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- ☒ Project-Based Learning
- ☒ Work-Based Learning

3 POST-SECONDARY READINESS

- ☒ CTE Concentrator
- ☒ Industry Credentials
- ☒ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Successful students in this pathway may earn dual-credit via Ivy Tech Community College



Industry Certifications

Successful students in this pathway may earn certification via the Indiana Professional Licensing Agency.



In-Demand Healthcare Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Healthcare Support Workers, All Other	\$31,030	15%	27,212
	Medical Equipment Preparers	\$32,640	5%	1,021
Associate's Degree	Licensed Practical or Vocational Nurse	\$41,540	12%	14,071
	Physical Therapist Assistant	\$55,950	32%	3,674
	Dental Hygienist	\$67,230	19%	4,236
Bachelor's Degree	Athletic Trainer	\$44,460	19%	437
	Dietitian and Nutritionist	\$55,680	16%	1,037
	Biochemist and Biophysicist	\$110,630	15%	262



EXERCISE SCIENCE PATHWAY

Exercise Science focuses on the role of exercise science in the sport and medical professions. Students interested in career paths of physical therapy, athletic training, sport medicine, physical/health education, and coaching will get classroom and hands on experiences through this pathway. Students will learn the importance of exercise science careers and study of exercise and sport physiology, sociology and psychology.

Pathway Sequence & Course Information

The Exercise Science Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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EXERCISE SCIENCE PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS ☑ Core 40 ☑ Academic Honors ☑ Technical Honors ☑ New Indiana Diploma Class of 2029 + Beyond	2 EMPLOYABILITY SKILLS ☑ Project-Based Learning	3 POST-SECONDARY READINESS ☑ CTE Concentrator ☑ Dual-Credit
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Dual Credit & Industry Credentials

This pathway is currently under development. No dual-credit or industry certifications are currently offered within this pathway. However, we are actively exploring options for the future.

In-Demand Exercise Science Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Onsite Medical Representative	\$47,000	4%	63,300
	Health and Wellness Advisor	\$42,934	19%	57,800
	Specialty Program Instructor	\$58,892	8%	28,900
Associate's Degree	Physical Therapy Aide	\$55,950	32%	3,674
Bachelor's Degree	Athletic Trainer	\$47,028	17%	5,100
	Physical Therapist	\$73,070	17%	40,400
	Health and Human Performance Professor	\$70,000	12%	100,458



PRE-NURSING / HEALTHCARE SPECIALIST PATHWAY

Certified Nursing Assistants, or CNAs, provide direct care to patients in hospitals, nursing homes and home care. As a vital part of a larger care team, Certified Nursing Assistants help patients with a wide range of basic needs, including eating, bathing, grooming, mobility and more. Successful students in this pathway earn their CNA License and are prepared to work full-time upon graduation. Students also may apply credit earned toward a LPN or RN program after high school.

Pathway Sequence & Course Information

The Pre-Nursing / Healthcare Specialist Pathway consists of a four course sequence. Year 1 courses should be taken concurrently as a Double-Block. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Healthcare: 2 Semesters | 11th Grade

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.



Healthcare Fundamentals: 2 Semesters | 11th Grade

Healthcare Fundamentals teaches students essential medical language skills, including abbreviations, symbols, and Greek and Latin word parts, all within the context of body systems. Students learn to pronounce, spell, and define medical terms used in healthcare. The course also introduces cells, tissues, and basic human anatomy, helping students develop the skills needed to communicate accurately and interpret medical records.



Healthcare Specialist C.N.A.: 2 Semesters | 11th or 12th Grade | *Double-Block*

Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. Successful students are eligible to sit for the Indiana State Department of Health 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: 2+ Semesters | 12th Grade

The Capstone course provides students with Work-Based Learning, Apprenticeship and Internship opportunities with local and regional businesses. Students are matched with potential employers based on interest, skill and certification. Students gain valuable work experience, while also earning wages as they learn.

YEAR 1
(CONCURRENT)

YEAR 2

YEAR 3

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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PRE-NURSING / HEALTHCARE SPECIALIST PATHWAY - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning
- ✓ Work-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Industry Credentials
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Successful students in this pathway may earn dual-credit via Ivy Tech Community College



Industry Certifications

Successful students in this pathway may earn certification via the Indiana Professional Licensing Agency.



In-Demand Healthcare Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Healthcare Support Workers, All Other	\$31,030	15%	27,212
	Medical Equipment Preparers	\$32,640	5%	1,021
Associate's Degree	Licensed Practical or Vocational Nurse	\$41,540	12%	14,071
	Physical Therapist Assistant	\$55,950	32%	3,674
	Dental Hygienist	\$67,230	19%	4236
Bachelor's Degree	Athletic Trainer	\$44,460	19%	437
	Dietitian and Nutritionist	\$55,680	16%	1,037
	Biochemist and Biophysicist	\$110,630	15%	262



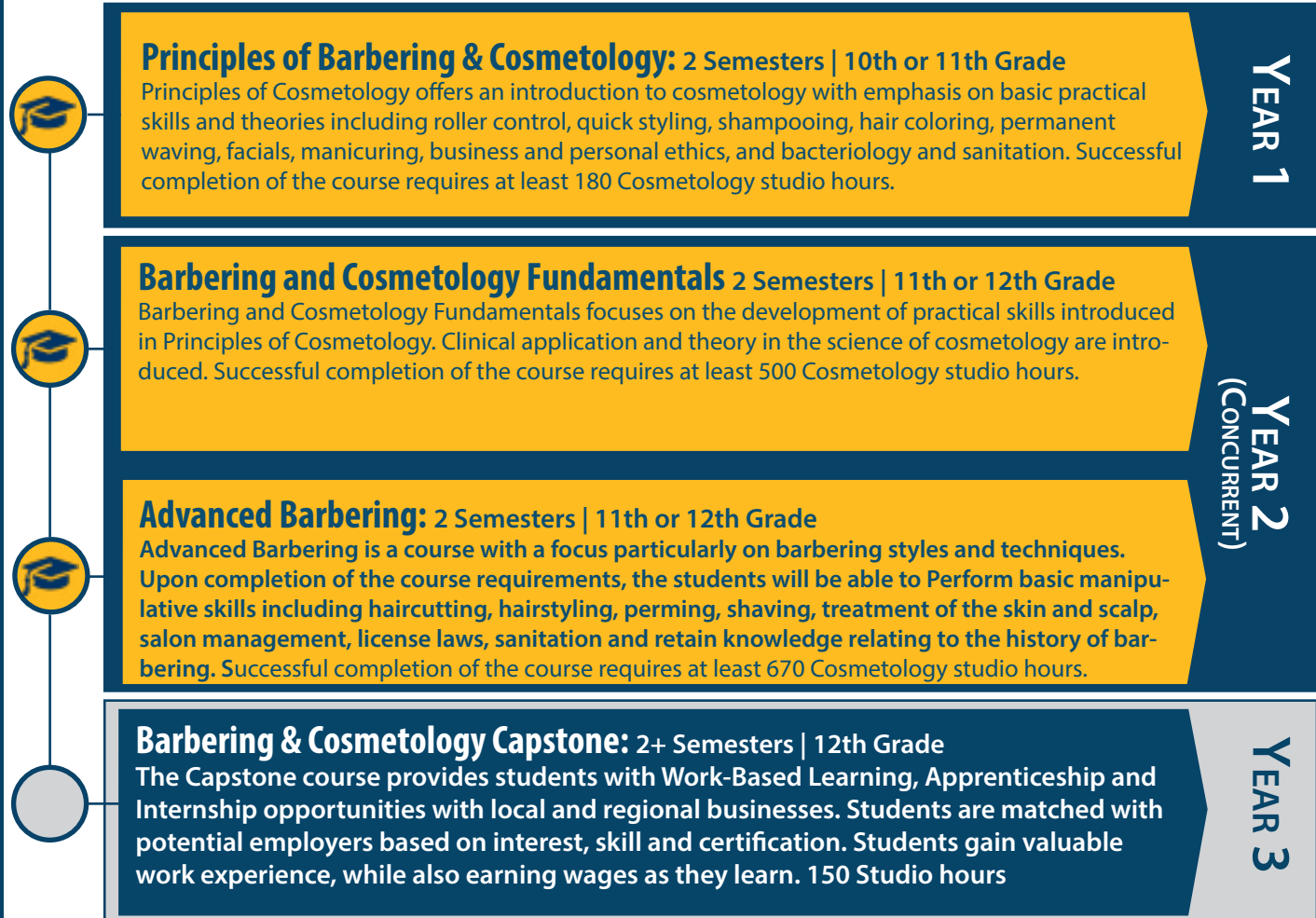
BARBERING PATHWAY

A barber is a person whose occupation is mainly to cut, dress, groom, style and shave men's and boys' hair or beards. A barber's place of work is known as a "barbershop" or a "barber's". Barbershops are often places of social interaction and public discourse within a community. Successful students in this pathway will be licensed and employable as a Barber upon program completion.



Pathway Sequence & Course Information

The Barbering Pathway consists of a four course sequence. Year 2 courses should be taken concurrently as a Double-Block. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



BARBERING PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- ✓ Project-Based Learning

3 POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Industry Credentials
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Industry Certifications

Successful students in this pathway will earn industry certifications from the Indiana Professional Licensing Agency.



In-Demand Human Services Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Manicurist and Pedicurist	\$20,880	10%	1,519
	Skincare Specialist	\$24,850	11%	1,456
	Hairdresser, Hairstylist, and Cosmetologist	\$25,060	10%	18,537
	Barber	\$26,290	5%	1,397
	Fitness Trainer	\$32,560	7%	7,813
Associate's Degree	Community Health Worker	\$42,820	17%	1,724
Bachelor's Degree	Child, Family, and School Social Worker	\$38,940	12%	7,273
	Healthcare Social Worker	\$48,080	21%	5,989

A woman with long dark hair, wearing a light pink turtleneck and a black skirt, is styling the hair of a woman with curly hair. They are in a salon or beauty studio setting with a mirror and lights in the background.

Cosmetology is the practice of hair cutting and styling, treating and coloring nails, and caring for skin. Cosmetologists perform an essential role in helping people look and feel their best, typically working in beauty salons, spas and barber shops. Successful students in this pathway will be licensed and employable as a Cosmetologist upon program completion.



Pathway Sequence & Course Information

The Cosmetology Pathway consists of a four course sequence. Year 2 courses should be taken concurrently as a Double-Block. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.

Principles of Barbering & Cosmetology: 2 Semesters | 10th or 11th Grade

Principles of Cosmetology offers an introduction to cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, facials, business and personal ethics, and bacteriology and sanitation. Successful completion of the course requires at least 180 Cosmetology studio hours.

YEAR 1

Barbering and Cosmetology Fundamentals: 2 Semesters | 11th or 12th Grade

Barbering and Cosmetology Fundamentals focuses on the development of practical skills introduced in Principles of Cosmetology. Clinical application and theory in the science of cosmetology are introduced. Successful completion of the course requires at least 500 Cosmetology studio hours.

YEAR 2 (CONCURRENT)

Advanced Cosmetology: 2 Semesters | 11th or 12th Grade

Advanced Cosmetology will emphasize the development of advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will also study anatomy and physiology as it applies to cosmetology. Successful completion of the course requires at least 670 Cosmetology studio hours.

Barbering & Cosmetology Capstone: 2+ Semesters | 12th Grade

The Capstone course provides students with Work-Based Learning, Apprenticeship and Internship opportunities with local and regional businesses. Students are matched with potential employers based on interest, skill and certification. Students gain valuable work experience, while also earning wages as they learn. 150 studio hours

YEAR 3

COSMETOLOGY PATHWAY - CONTINUED

Graduation Pathways Requirements

DIPLOMA OPTIONS

- ☑ Core 40
- ☑ Academic Honors
- ☑ Technical Honors
- ☑ New Indiana Diploma
- Class of 2029 + Beyond

EMPLOYABILITY SKILLS

- ☒ Project-Based Learning

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Industry Credentials
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Successful students in this pathway will earn dual-credit via Vincennes University.



Industry Certifications

Successful students in this pathway will earn industry certifications from the Indiana Professional Licensing Agency.



In-Demand Human Services Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Manicurist and Pedicurist	\$20,880	10%	1,519
	Skincare Specialist	\$24,850	11%	1,456
	Hairdresser, Hairstylist, and Cosmetologist	\$25,060	10%	18,537
	Barber	\$26,290	5%	1,397
	Fitness Trainer	\$32,560	7%	7,813
Associate's Degree	Community Health Worker	\$42,820	17%	1,724
Bachelor's Degree	Child, Family, and School Social Worker	\$38,940	12%	7,273
	Healthcare Social Worker	\$48,080	21%	5,989



CULINARY ARTS PATHWAY

Culinary Arts is the preparation, cooking and presentation of food and meals. Chefs and cooks usually work in restaurants, planning menus, purchasing and preparing food to be used, and cooking and baking meals to be served to customers. Successful students are licensed and prepared to be employed in both front-of-the-house and back-of-the-house restaurant roles.



Pathway Sequence & Course Information

The Culinary Arts Pathway consists of a four course sequence. Year 2 courses should be taken concurrently as a Double-Block. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.

Principles of Culinary and Hospitality: 2 Semesters | 10th Grade
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. 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: 2 Semesters | 11th Grade
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: 2 Semesters | 11th Grade
Culinary Arts teaches students how to prepare the four major stocks, the five mother sauces (in addition to smaller sauces) and various soups. Additional emphasis is placed on the further development of the classical cooking methods. This course will also present the fundamentals of baking science including terminology, ingredients, weights and measures, and proper use and care of equipment.

Culinary Arts Capstone: 2+ Semesters | 12th Grade
In this capstone students gain valuable experience by managing and operating Bernie's Place, MCIT's on-site restaurant. Students apply lessons learned during their pathway to serve patrons from both the school community and the public. Bernie's also provides students with experience catering for events both on-site and delivery.

YEAR 1

(CONCURRENT)

YEAR 2

YEAR 4

CULINARY ARTS PATHWAY - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- Core 40
- Academic Honors
- Technical Honors
- New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- Project-Based Learning
- Work-Based Learning

3

POST-SECONDARY READINESS

- CTE Concentrator
- Industry Credentials
- Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Successful students in this pathway may earn dual-credit via Vincennes University.

Industry Certifications

Successful students in this pathway may earn industry certifications from the National Restaurant Association.

In-Demand Hospitality & Tourism Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Baker	\$25,380	8%	5,190
	Housekeeping Supervisor	\$35,470	11%	5,710
	Chef and Head Cook	\$41,380	9%	2,737
	Lodging Manager	\$44,410	3%	572
	Gaming Supervisor	\$48,600	1%	1,030
	Food Service Manager	\$52,590	8%	5,445



CRIMINAL JUSTICE PATHWAY

Criminal Justice is responsible for serving and protecting the public and is often on the front lines of finding and apprehending law breakers. The court system upholds and interprets the laws, determines guilt or innocence, and delivers punishment. Successful students will gain experience working alongside Law Enforcement in service for the community. Students earn certification as an Emergency Dispatcher upon completion of this program.

Pathway Sequence & Course Information

The Criminal Justice Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Criminal Justice: 2 Semesters | 10th or 11th Grade

Principles of Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. This course further explores the interrelationships and responsibilities of these three primary elements of the criminal justice system.

YEAR 1



Law Enforcement Fundamentals: 2 Semesters | 11th or 12th Grade

Law Enforcement Fundamentals Critically examines the history and nature of the major theoretical perspectives in criminology, and the theories found within those perspectives. Analyzes the research support for such theories and perspectives, and the connections between theory and criminal justice system practice within all the major components of the criminal justice system.

YEAR 2



Corrections & Cultural Awareness: 2 Semesters | 11th or 12th Grade

Corrections and Cultural Awareness emphasizes the study of American criminal justice problems and systems in historical and cultural perspectives, as well as discussing social and public policy factors affecting crime. Multidisciplinary and multicultural perspectives are stressed.

YEAR 3



Criminal Justice Capstone: 2+ Semesters | 11th or 12th Grade

The Capstone course provides students with Work-Based Learning, Apprenticeship and Internship opportunities with local and regional businesses. Students are matched with potential employers based on interest, skill and certification. Students gain valuable work experience, while also earning wages as they learn.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67 - 68
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CRIMINAL JUSTICE PATHWAY - CONTINUED

Graduation Pathways Requirements

1	DIPLOMA OPTIONS	2	EMPLOYABILITY SKILLS	3	POST-SECONDARY READINESS
	✓ Core 40 ✓ Academic Honors ✓ Technical Honors ✓ New Indiana Diploma Class of 2029 + Beyond		✓ Project-Based Learning ✓ Work-Based Learning		✓ CTE Concentrator

Dual Credit & Industry Credentials

Dual Credit

We are currently working to identify a dual-credit provider for this pathway.

Industry Certifications

Successful students in this pathway will earn industry certifications through CompTIA.



In-Demand Criminal Justice Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Security Guard	\$27,000	7%	24,271
	Police, Fire, and Ambulance Dispatcher	\$35,570	9%	2,126
	Firefighter	\$46,620	8%	5,855
	Police and Sheriff's Patrol Officer	\$51,960	7%	8,469
Associate's Degree	Paralegal and Legal Assistant	\$45,560	19%	5,114
	Security Manager	\$70,740	7%	10,468



HOSPITALITY MANAGEMENT PATHWAY

Hospitality management is a career path that typically falls under the hotels, resorts, and lodging industry. Professionals in this field create and run many aspects of the guest experience. Successful students in this pathway will have the opportunity to engage in Work-Based Learning in the Indianapolis Hospitality industry.

Pathway Sequence & Course Information

The Hospitality Management Pathway consists of a four course sequence. Year 2 courses should be taken concurrently as a Double-Block. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Culinary and Hospitality: 2 Semesters | 10th or 11th Grade

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. 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.

YEAR 1



Nutrition: 2 Semesters | 11th Grade

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.

YEAR 2
(CONCURRENT)



Hospitality Management: 2 Semesters | 11th Grade

Hospitality Management prepares students for employment in the hospitality industry. It provides the foundations for study in higher education that leads to a full spectrum of hospitality careers. 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.



Hospitality Capstone: 2+ Semesters | 12th Grade

The Capstone course provides students with Work-Based Learning, Apprenticeship and Internship opportunities with local and regional businesses. Students are matched with potential employers based on interest, skill and certification. Students gain valuable work experience, while also earning wages as they learn.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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HOSPITALITY MANAGEMENT PATHWAY - CONTINUED

Graduation Pathways Requirements

- 1** **DIPLOMA OPTIONS**
- ☒ Core 40
 - ☒ Academic Honors
 - ☒ Technical Honors
 - ☒ New Indiana Diploma Class of 2029 + Beyond

- 2** **EMPLOYABILITY SKILLS**
- ☒ Project-Based Learning
 - ☒ Work-Based Learning

- 3** **POST-SECONDARY READINESS**
- ☒ CTE Concentrator
 - ☒ Industry Credentials
 - ☒ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Under Development

Industry Certifications

We are working to identify possible industry certifications for this program.

In-Demand Hospitality & Tourism Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Baker	\$25,380	8%	5,190
	Housekeeping Supervisor	\$35,470	11%	5,710
	Chef and Head Cook	\$41,380	9%	2,737
	Lodging Manager	\$44,410	3%	572
	Gaming Supervisor	\$48,600	1%	1,030
	Food Service Manager	\$52,590	8%	5,445



SOCIAL & COMMUNITY SERVICES

Human and Social Services workers help individuals handle their everyday struggles and challenges. They might help people going through financial or marriage troubles at home, patients and families navigating healthcare decisions, or students having trouble in the classroom.

Pathway Sequence & Course Information

The Human & Social Services Pathway consists of a four course sequence. Students that earn a “C” or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Human & Social Services: 2 Semesters | 9th or 10th Grade

Principles of Human Services explores the history of human services, career opportunities, and the role of the human service worker. 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. This course will also encourage cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs.

YEAR 1



Fundamentals of Human Services: 2 Semesters | 10th or 11th Grade

Introduces students to the core elements of effective human service work, including helping relationships, communication, diversity, problem-solving, crisis response, and professional ethics. Students learn to identify signs of crisis, practice basic intervention skills, and reflect on their own strengths and areas for growth while exploring the importance of ongoing professional development in the field.

YEAR 2



Community Health Worker: 2 Semesters | 11th or 12th Grade

Community Health Worker (Advance Social and Community Services) provides students with the opportunity to increase their effectiveness in helping people. Students will examine the helping process in terms of skill, helping stages, and issues involved in a helping relationship. Additionally, background knowledge of the field of intellectual and developmental disabilities and issues pertaining to the field will be provided.

YEAR 3



Social & Community Services Capstone 2+ Semesters | 11th or 12th Grade

Social and Community Services Capstone introduces students to careers in community health and case management. Students learn assessment, communication, care coordination, cultural competence, and ethics while exploring community resources and strategies to support individuals with diverse needs.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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HUMAN & SOCIAL SERVICES - CONTINUED

Graduation Pathways Requirements

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning
- ✓ Work-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Under Development

Industry Certifications

We are working to identify possible industry certifications for this program.

In-Demand Human & Social Services Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Manicurist and Pedicurist	\$20,880	10%	1,519
	Skincare Specialist	\$24,850	11%	1,456
	Hairdresser, Hairstylist, and Cosmetologist	\$25,060	10%	18,537
	Barber	\$26,290	5%	1,397
	Fitness Trainer	\$32,560	7%	7,813
Associate's Degree	Community Health Worker	\$42,820	17%	1,724
Bachelor's Degree	Child, Family, and School Social Worker	\$38,940	12%	7,273
	Healthcare Social Worker	\$48,080	21%	5,989



CYBERSECURITY PATHWAY

Cybersecurity is the protection of computer and network systems from digital theft, damage or sabotage. “Cyberattacks” are external threats, centered around interrupting normal business processes. Cybersecurity focuses its efforts on detecting, identifying and responding to external cyber-threats, and how to recover from them. Successful students will be well positioned for immediate employment in one of the fastest growing fields in technology.

Pathway Sequence & Course Information

The Cybersecurity Pathway consists of a four course sequence. Students that earn a “C” or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.

	Principles of Computing: 2 Semesters 9th or 10th Grade Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to any organization. Students will learn about algorithms, logic development and flowcharting.	YEAR 1
	Cybersecurity Fundamentals: 2 Semesters 10th, 11th or 12th Grade *Double Block* This course introduces fundamental networking protocols and their hierarchical relationship in the context of conceptual Information Communication Technology (ICT) frameworks. Students will learn how networked hosts and applications communicate across networks. Emphasis is placed on security throughout the entire SDLC (Systems Development Life Cycle). Students pursue CompTIA A+ Certification	YEAR 2
	Advanced Cybersecurity: 2 Semesters 11th or 12th Grade Students will acquire the fundamentals of information and data security and understand the vulnerability most organizations have in their security systems with an emphasis on firewalls, security plans and Virtual Private Networks (VPNs). Discussions will include data security methods, authentication, network attacks, malicious code and viruses, wireless security, e-mail and web security and disaster recovery. Students pursue CompTIA Network + Certification	YEAR 3
	Cybersecurity Capstone: 2+ Semesters 11th or 12th Grade The Capstone course is designed to increase a student’s ability to investigate advanced topics with a primary focus on computer forensics, cyber law, cybercrimes, and cyber forensics. Students will gain in-depth experience investigating and gathering evidence to prepare for a presentation in a court of law. Students pursue CompTIA Security + Certification	YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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CYBERSECURITY PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS ☑ Core 40 ☑ Academic Honors ☑ Technical Honors ☑ New Indiana Diploma Class of 2029 + Beyond	2 EMPLOYABILITY SKILLS ☑ Project-Based Learning ☑ Work-Based Learning	3 POST-SECONDARY READINESS ☑ CTE Concentrator ☑ Industry Credentials
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Dual Credit & Industry Credentials

Dual Credit

Successful students in this pathway will earn dual-credit via Vincennes University.



Industry Certifications

Successful students in this pathway will earn industry certifications through CompTIA.



In-Demand Information Technology Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
Associate's Degree	Computer User Support Specialist	\$48,800	13%	8,483
	Web Developer	\$59,080	11%	1,614
	Network and Computer Sys. Admin	\$70,950	7%	5,394
	Computer Network Architect	\$82,420	11%	2,427
Bachelor's Degree	Computer Systems Analyst	\$76,860	11%	6,616
	Information Security Analyst	\$79,370	34%	1,306
	Software Developer, Applications	\$82,210	37%	9,412
	Computer and Information Systems Manager	\$112,440	12%	4,199

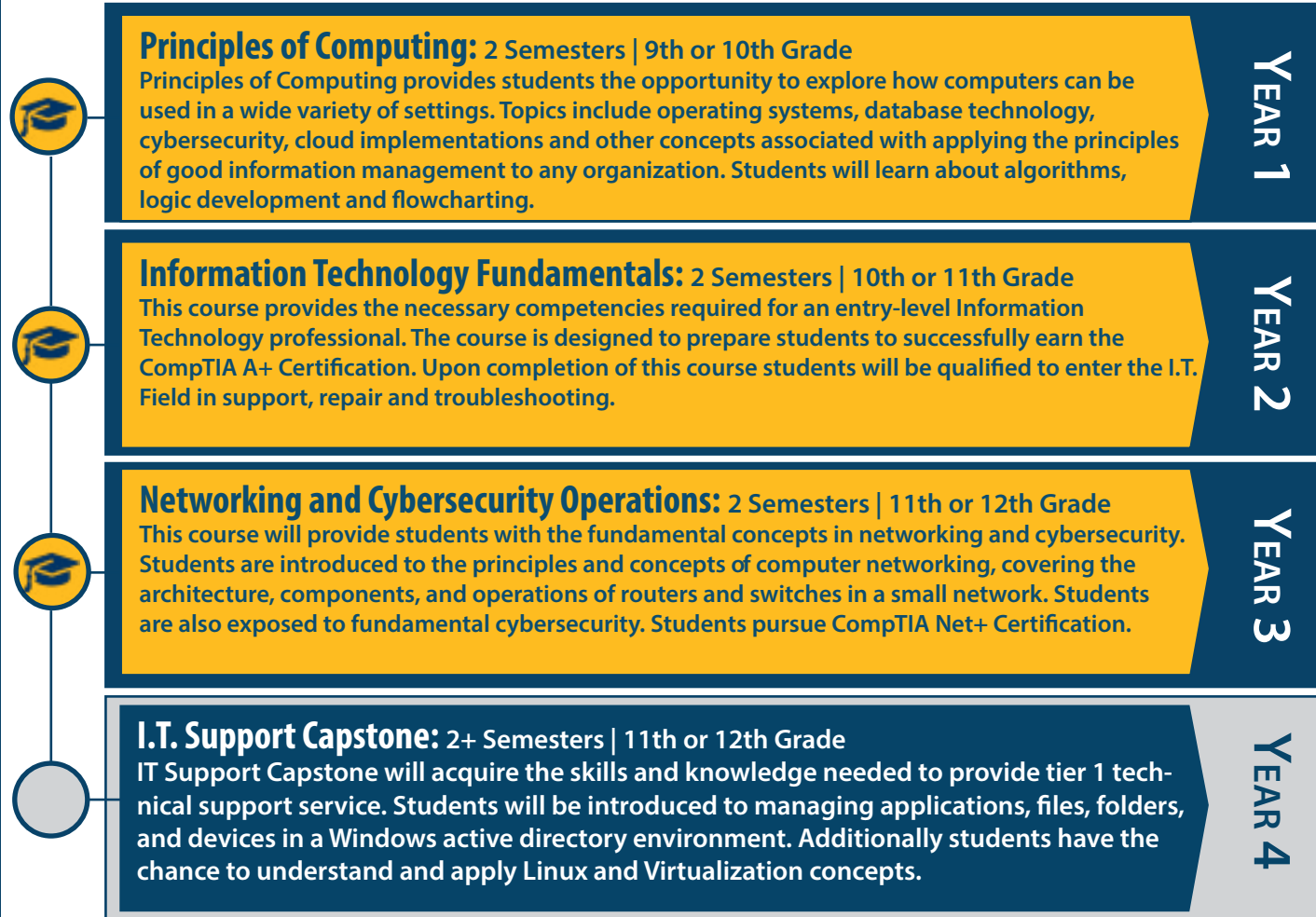


IT OPERATIONS PATHWAY

IT Support & Service Technicians work directly with end-users to troubleshoot a host of IT issues that may be disrupting productivity or even entertainment. IT Technicians often hold a series of industry certifications related to the support and service of specific hardware or software. Successful students can expect to be immediately employable in IT Support, including employment opportunities with the school district. *This program will phase out by 2027.

Pathway Sequence & Course Information

The IT Operations Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



IT OPERATIONS PATHWAY - CONTINUED

Graduation Pathways Requirements

1 DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2 EMPLOYABILITY SKILLS

- ✓ Project-Based Learning
- ✓ Work-Based Learning

3 POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Industry Credentials
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Successful students in this pathway may earn dual-credit from Vincennes University.



Industry Certifications

Certifications offered include:
• CompTia A+
• CompTia Security+



In-Demand Information Technology Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
Associate's Degree	Computer User Support Specialist	\$48,800	13%	8,483
	Web Developer	\$59,080	11%	1,614
	Network and Computer Sys. Admin	\$70,950	7%	5,394
	Computer Network Architect	\$82,420	11%	2,427
Bachelor's Degree	Computer Systems Analyst	\$76,860	11%	6,616
	Information Security Analyst	\$79,370	34%	1,306
	Software Developer, Applications	\$82,210	37%	9,412
	Computer and Information Systems Manager	\$112,440	12%	4,199



SOFTWARE DEVELOPMENT PATHWAY

Software Development refers to using computer code to create, design, deploy and support computer software. Software Development students study full-stack development including Database, Logic and UX Layers. Successful students will be well prepared to continue studying Software Development and Computer Science in college, while being well positioned for immediate employment upon graduation.



Pathway Sequence & Course Information

The Software Development Pathway consists of a four course sequence. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Computing: 2 Semesters | 9th or 10th Grade

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to any organization. Students will learn about algorithms, logic development and flowcharting.

YEAR 1



Website & Database Development: 2 Semesters | 10th or 11th Grade

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 Website and Database design and development. Students will learn to develop Web sites using HTML and Cascading Style Sheets (CSS). Additionally students will be introduced to the basic concepts of databases and data concepts such as data warehousing, data mining, and BIG Data.

YEAR 2



Software Development: 2 Semesters | 11th or 12th Grade

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. Concepts will be applied using different programming languages, and students will develop and test working programs in an integrated system.

YEAR 3



Software Development Capstone: 2+ Semesters | 11th or 12th Grade

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. Concepts will be applied using different programming languages, and students will develop and test working programs.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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SOFTWARE DEVELOPMENT PATHWAY - CONTINUED

Graduation Pathways Requirements

- 1** **DIPLOMA OPTIONS**
- ☒ Core 40
 - ☒ Academic Honors
 - ☒ Technical Honors
 - ☒ New Indiana Diploma Class of 2029 + Beyond

- 2** **EMPLOYABILITY SKILLS**
- ☒ Project-Based Learning
 - ☒ Work-Based Learning

- 3** **POST-SECONDARY READINESS**
- ☒ CTE Concentrator

Dual Credit & Industry Credentials

Dual Credit
Under Development

Industry Certifications

Industry certifications may be earned through one or more of the engineering specialty courses. The engineering program is part of the nationally recognized PLTW Network. As such, students have access to a host of PLTW related resources and partnerships.



In-Demand Information Technology Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
Associate's Degree	Computer User Support Specialist	\$48,800	13%	8,483
	Web Developer	\$59,080	11%	1,614
	Network and Computer Sys. Admin	\$70,950	7%	5,394
Bachelor's Degree	Computer Network Architect	\$82,420	11%	2,427
	Computer Systems Analyst	\$76,860	11%	6,616
	Information Security Analyst	\$79,370	34%	1,306
	Software Developer, Applications	\$82,210	37%	9,412
	Computer and Information Systems Manager	\$112,440	12%	4,199



BIOTECHNOLOGY PATHWAY

MSDLT has established a groundbreaking partnership with Ivy Tech Community College and Eli Lilly to offer students a unique and comprehensive program of study in the Biotechnology pathway through the Next Level initiative.

Biotechnology drives innovation across sectors, offering solutions from disease diagnostics to genetic modifications. Ivy Tech's program ensures students are equipped for high-demand roles through hands-on learning and experienced instructors.

Pathway Sequence & Course Information

The Biotechnology Pathway consists of a four course sequence. In year 3, students specialize in a field of engineering that captures their interest. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Principles of Biotechnology: 2 Semesters | 9th or 10th Grade

Principles of Biotechnology presents an in-depth overview of biotechnology emphasizing basic molecular techniques of manipulating DNA; processes involved in protein purification and analysis; microbial, plant, aquatic, medical and animal biotechnology; regulations and ethics of the biotechnology industry.

YEAR 1



Biotech Manufacturing: 2 Semesters | 10th or 11th Grade

Biotech Manufacturing introduces students to the basics of design and manufacturing within the biotechnology industry, gaining an understanding of the work environment. Students will learn a brief history of the Food and Drug Administration, then will learn how the practices set forth by the FDA control the work environment and the behavior of workers in the field. This course prepares students for the most basic entry level position in this regulated industry.

YEAR 2



BioTech Regulatory Affairs 2 Semesters | 10th or 11th Grade

Biotech Regulatory Affairs introduces students to the laws and regulations that guide the development, approval, and distribution of drugs, biologics, and medical devices. The course helps students understand the role of regulatory affairs and how professionals interact with the FDA and other global regulatory agencies.

YEAR 3



Biotechnology Capstone: 2+ Semesters | 11th or 12th Grade

This course focuses on safety, quality, and manufacturing practices for Biotechnical manufacturing careers. The course can be customized to provide a focus on pharmaceutical manufacturing. Capstone content can be combined with outside experiences and credits can be applied to the Medical Device Quality CT, Biopharmaceutical Manufacturing CT and the Biotechnology AAS (the degree requires Biology, but not the chemistry) at Ivy Tech.

YEAR 4

ENGINEERING PATHWAY

Pathway High

1

DIPLOMA OPTIONS

- ✓ Core 40
- ✓ Academic Honors
- ✓ Technical Honors
- ✓ New Indiana Diploma Class of 2029 + Beyond

2

EMPLOYABILITY SKILLS

- ✓ Project-Based Learning

3

POST-SECONDARY READINESS

- ✓ CTE Concentrator
- ✓ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Students may earn college credit through our dual-credit partner, Ivy Tech Community College.



Industry Certifications

Industry certifications may be earned through one or more of the engineering specialty courses. The engineering program is part of the nationally recognized PLTW Network. As such, students have access to a host of PLTW related resources and partnerships.



In-Demand STEM Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Biomedical Equipment Technician	\$50,905	18%	7,300
	Microbiologist	\$63,211	7%	--
Bachelor's Degree	DNA Analyst	\$81,367	14%	--
	Product Manager	\$105,434	10%	33,000
	Bioprocess Engineer	\$113,978	10%	260



ENGINEERING PATHWAY

Engineering is the process of applying math and science to the design and manufacturing of machines, equipment, buildings, medicine, computer software and almost anything that is man-made. Engineers commonly focus on a specific type of engineering, including chemical, civil/structural, computer, electrical, industrial, mechanical or biomedical. Successful students will be well positioned to further pursue Engineering in college.



Pathway Sequence & Course Information

The Engineering Pathway consists of a four course sequence. In year 3, students specialize in a field of engineering that captures their interest. Students that earn a "C" or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.



Introduction to Engineering Design: 2 Semesters | 9th or 10th Grade

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.

YEAR 1



Principles of Engineering: 2 Semesters | 10th or 11th Grade

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 interested in engineering careers to explore experiences related to specialized fields such as civil, mechanical, and materials engineering.

YEAR 2



Aerospace Engineering
2 Semesters
11th or 12th Grade

OR

Civil Engineering & Architecture
2 Semesters
11th or 12th Grade

OR

Computer Integrated Manufacturing
2 Semesters
11th or 12th Grade

OR

Digital Electronics
2 Semesters
11th or 12th Grade

YEAR 3



Engineering Design & Development: 2+ Semesters | 11th or 12th Grade

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.

YEAR 4

Agriculture 13-15	Architecture & Constr. 15-16	Business 17-24	Communication Arts, AV, & Tech. 25-32	Education & Training 33-36	Health Sciences 37-44	Hospitality & Human Services 45-56	Information Technology 57-62	STEM 63-66	Transportation 67-68
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ENGINEERING PATHWAY - CONTINUED

Graduation Pathways Requirements

- 1** **DIPLOMA OPTIONS**
- ☒ Core 40
 - ☒ Academic Honors
 - ☒ Technical Honors
 - ☒ New Indiana Diploma Class of 2029 + Beyond

- 2** **EMPLOYABILITY SKILLS**
- ☒ Project-Based Learning

- 3** **POST-SECONDARY READINESS**
- ☒ CTE Concentrator
 - ☒ Dual-Credit

Dual Credit & Industry Credentials

Dual Credit

Students may earn college credit through our dual-credit partner, Ivy Tech Community College.



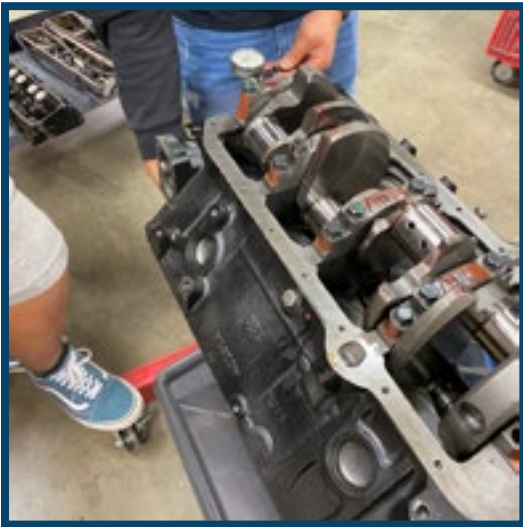
Industry Certifications

Industry certifications may be earned through one or more of the engineering specialty courses. The engineering program is part of the nationally recognized PLTW Network. As such, students have access to a host of PLTW related resources and partnerships.



In-Demand STEM Occupations

Education Level	Occupation	Median Salary	Job Growth Over Next 10 Years	Job Openings Projected Over Next 10 Years
High School + Industry Certification	Engineering Technician	\$63,980	5%	1,474
	Chemist	\$65,450	11%	2,445
Bachelor's Degree	Industrial Engineer	\$65,450	11%	2,445
	Mechanical Engineer	\$74,030	19%	7,900
	Electrical Engineer	\$79,120	25%	282
	Biochemist and Biophysicist	\$110,630	15%	262



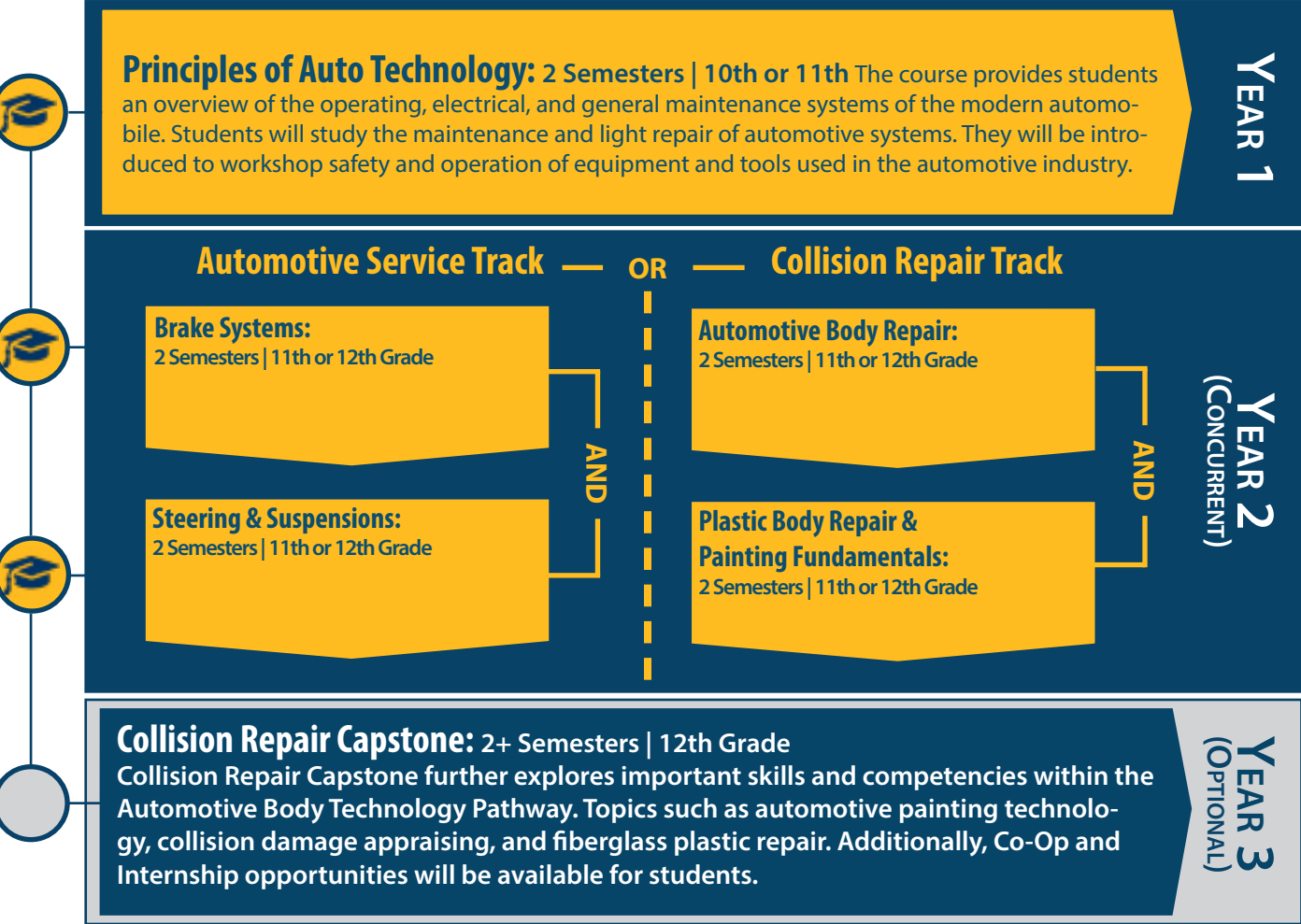
AUTOMOTIVE TECHNOLOGY PATHWAY

Automotive Service Technology includes two distinct tracks; Automotive Service and Collision Repair. The Automotive Service Track prepares students to perform repair and maintenance within the major Automotive Systems. Collision Repair prepares students to replace and repair damages to the body and chassis of a vehicle, as well as the repair or replacement of other systems effected by a collision.



Pathway Sequence & Course Information

The Automotive Technology Pathway consists of a four course sequence. In Year 2, students choose a Track to complete. Year 2 Courses should be taken concurrently as a double-block. Students that earn a “C” or better in the first three courses earn CTE Concentrator status to satisfy the box 3 requirement for graduation. This reflects the current version of the pathway; course sequences may be subject to change.





**GRADUATION PATHWAYS &
NEXT LEVEL PROGRAMS OF STUDY**

www.ltschools.org/academics/next-level