

Indiana College & Career Pathways



The updated version of IDOE's proposed Career Clusters and Pathways are included on the following pages with the addition of the sequence of courses recommended for each Pathway.

All of the following information is included:

- Cluster titles
- Pathway titles
- Salary averages and ranges
- Sequence of courses recommended for student success
- Numbers at the end of each course title indicate the number of credits students can earn in that course.
- Underlining indicates courses that have agreements with postsecondary institutions in place and are available for Dual College Credit.

Note that “Preparing for College and Careers” and “Personal Financial Responsibility” (or “Adult Roles & Responsibilities” in some schools – to maintain local flexibility) are foundational CTE courses recommended for every student in every Pathway.

Agriculture

Agribusiness

Average Salary \$57,131
Range \$33K to \$92K

- Introduction to Agriculture, Food, and Natural Resources 2 credits
- Agriculture Power, Structure & Technology 2 credits
- Agribusiness Management 2 credits

Life Sciences

Average Salary \$50,868
Range \$28K to \$88K

- Introduction to Agriculture, Food, and Natural Resources 2 credits
- CONCENTRATION: ANIMAL SCIENCE
- Animal Science 2-6 credits
 - Advanced Life Science: Animals 2 credits
- CONCENTRATION: FOOD SCIENCE
- Food Science 2 credits
 - Advanced Life Science: Food 2 credits
- CONCENTRATION: PLANTS & SOILS
- Plant and Soil Science 2 credits
 - Advanced Life Science: Plants & Soils 2 credits
- CONCENTRATION: NATURAL RESOURCES
- Natural Resources I 2 credits
 - Natural Resources II 2 credits

Horticulture & Landscape Mgmt

Average Salary \$53,173
Range \$32K to \$67K

- Plant and Soil Science 2 credits
- Advanced Life Science: Plants and Soils 2 credits
- Landscape Management 2-6 credits
- Horticulture Science 2-6 credits

Architecture & Construction

Construction Trades

Average Salary \$45,292
Range \$34K to \$78K

CONCENTRATION: CONSTRUCTION

- Introduction to Construction 2 credits
- Construction Technology I 4-6 credits
- Construction Technology II 4-6 credits

CONCENTRATION: ELECTRICAL

- Introduction to Construction 2 credits
- Electrical I 4-6 credits
- Electrical II 4-6 credits

CONCENTRATION: HVAC

- Introduction to Construction 2 credits
- HVAC I 4-6 credits
- HVAC II 4-6 credits

Drafting & Design

Average Salary \$48,658
Range \$42K to \$64K

CONCENTRATION: ARCHITECTURAL

- Computers in Design and Production Systems 2 credits
- Introduction to Housing & Interior Design 2 credits
- Architectural Drafting & Design I 4-6 credits
- Architectural Drafting & Design II 4-6 credits

CONCENTRATION: MECHANICAL

- Computers in Design and Production Systems 2 credits
- Mechanical Drafting & Design I 4-6 credits
- Mechanical Drafting & Design II 4-6 credits

Arts, AV Technology & Communications

Web & Digital Communications

Average Salary \$38,404
Range \$29K to \$53K

CONCENTRATION: INTERACTIVE MEDIA

- Introduction to Communication 2 credits
- Introduction to Design Processes 2 credits
- Design Fundamentals 2 credits
- Computer Illustrations & Graphics 2 credits
- Interactive Media 2 credits
- Web Design 2 credits

CONCENTRATION: RADIO TV

- Introduction to Communication 2 credits
- Introduction to Design Processes 2 credits
- Radio & Television I 4-6 credits
- Radio & Television II 4-6 credits

Visual Arts

Average Salary \$41,127
Range \$34K to \$53K

CONCENTRATION: VISUAL COMMUNICATION

- Introduction to Design Processes 2 credits
- Design Fundamentals 2 credits
- Computer Illustrations & Graphics 2 credits
- Graphic Design and Layout 2 credits
- Web Design 2 credits

CONCENTRATION: COMMERCIAL PHOTOGRAPHY

- Introduction to Design Processes 2 credits
- Design Fundamentals 2 credits
- Computer Illustrations & Graphics 2 credits
- Commercial Photography 2 credits
- Graphic Design and Layout 2 credits

Business & Marketing

Business Administration

Average Salary \$75,829

Range \$28K to \$154K

CONCENTRATION: ACCOUNTING & FINANCE

- IT Essentials 2 credits
- Business, Marketing and Entrepreneurship 1 credit
- Accounting 2 credits
- Principles of Business Management 2 credits
- Financial Services 4 credits
- Business Law and Ethics 2 credits

CONCENTRATION: ENTREPRENEURSHIP & MANAGEMENT

- IT Essentials 2 credits
- Business, Marketing and Entrepreneurship 1 credit
- Accounting 2 credits
- Principles of Business Management 2 credits
- Principles of Marketing 2 credits
- Business Law and Ethics 2 credits
- Advanced Business Management 4 credits
- or
- Entrepreneurship & New Ventures 2 credits

CONCENTRATION: MARKETING MANAGEMENT

- IT Essentials 2 credits
- Business, Marketing and Entrepreneurship 1 credit
- Accounting 2 credits
- Principles of Marketing 2 credits
- Strategic Marketing 4 credits

FOCUS: SPORTS MARKETING

- Sports & Entertainment Electives 2 credits
- Sports & Entertainment Marketing 2 credits

FOCUS: FASHION MARKETING

- Fashion & Textiles Electives 2 credits
- Fashion Merchandising 2 credits

Education & Training

Education & Early Childhood

Average Salary \$44,237

Range \$22K to \$64K

CONCENTRATION: EARLY CHILDHOOD EDUCATION

- Child Development/Advanced Child Development 2 credits
- Interpersonal Relationships 1-2 credits
- Early Childhood Education I 4-6 credits
- Early Childhood Education II 4-6 credits each

CONCENTRATION: EDUCATION CAREERS

- Child Development/Advanced Child Development 2 credits
- Interpersonal Relationships 1-2 credits
- Adult Roles & Responsibilities 1-2 credits
- Education Professions I 2-4 credits
- Education Professions II 4-6 credits

Health Science

Biotechnology

Average Salary \$59,977
Range \$32K to \$88K

- PLTW Principles of Biomed
2 credits
- PLTW Human Body Systems
2 credits
- PLTW Medical Interventions
2 credits
- PLTW Biomedical Innovation
2 credits
- Human Development & Wellness 2 credits

Dental

Average Salary \$44,416
Range \$34K to \$65K

- Nutrition and Wellness
2 credits
- Interpersonal Relationships
1-2 credits
- Dental Careers I 6 credits
- Dental Careers II 6 credits

Health Care Specialties

Average Salary \$23,915
Range \$19K to \$27K

- Medical Terminology
1 credit
- Anatomy & Physiology
2 credits
- Health Science Education I
4 credits
- Health Science Education II-
Comprehensive 4 credits
or
- Health Science Education II-
Pharmacy 4-6 credits
or
- Health Science Education II-
Support Services 4-6 credits
or
- Health Science Education II-
Veterinary 4-6 credits
or
- Human & Social Services I
(2 credits)
- Human & Social Services II
(4-6 credits)

Nursing

Average Salary \$40,969
Range \$37K to \$45K

- Medical Terminology
1 credits
- Anatomy & Physiology
2 credits
- Health Science Education I
4 credits
- Human Development & Wellness 2 credits
- Health Science Education II-
Nursing 4-6 credits

Hospitality & Human Services

Culinary Arts

Average Salary \$40,215
Range \$35K to \$45K

- Nutrition & Wellness/
Advanced Food & Nutrition
2 credits
- Introduction to Culinary Arts
& Hospitality 1-2 credits
- Interpersonal Relationships
1-2 credits
- Business, Marketing, &
Entrepreneurship 1 credit
- Culinary Arts and Hospitality
Management 4to 6 credits
- Advanced Culinary Arts
4to 6 credits

Cosmetology

Average Salary \$21,495
Range \$21K to \$23K

- Business, Marketing, &
Entrepreneurship 1 credit
- Cosmetology I 6 credits
- Cosmetology II 6 credits

Hospitality Management

Average Salary \$33,681
Range \$30K to \$43K

- Nutrition & Wellness/
Advanced Food & Nutrition
2 credits
- Introduction to Culinary Arts
& Hospitality 1-2 credits
- Interpersonal Relationships
1-2 credits
- Business, Marketing, &
Entrepreneurship 1 credit
- Culinary Arts and Hospitality
Management 4to 6 credits
- Advanced Hospitality
Management 4 to 6 credits

Information Technology

Programming

Average Salary \$65,857
Range \$62K to \$70K

- IT Essentials 2 credits
- Computer Programming I 4-6 credits
- Computer Programming II 4-6 credits

PC Networking & Support

Average Salary \$56,216
Range \$38K to \$67K

CONCENTRATION: NETWORKING

- IT Essentials 2 credits
- Computer Tech Support 4-6 credits
- Bridges to the Internet 4-6 credits

CONCENTRATION: PC SUPPORT

- IT Essentials 2 credits
- Computer Tech Support 4-6 credits
- Network Fundamentals 4-6 credits

Manufacturing

Advanced Manufacturing

Average Salary \$48,768
Range \$29K to \$79K

- Introduction to Advanced Manufacturing & Logistics 2 credits
- Computers in Design & Production 2 credits
- Advanced Manufacturing I 4-6 credits
- Advanced Manufacturing II 4-6 credits

Electronics

Average Salary \$31,979
Range \$30K to \$33K

- Introduction to Advanced Manufacturing & Logistics -2 credits
- Electronics & Computer Technology I 4-6 credits
- Electronics & Computer Technology II 4-6 credits each

Engineering

Average Salary \$57,470
Range \$31K to \$63K

- Introduction to Engineering Design 2 credits
- Principles of Engineering 2 credits

AT LEAST ONE OF THE FOLLOWING

- Civil Engineering and Architecture 2 credits
- Computer Integrated Manufacturing 2 credits
- Digital Electronics 2 credits
- Biotechnical Engineering 2 credits
- Aerospace Engineering 2 credits

CAPSTONE (RECOMMENDED)

- PLTW Engineering Design & Development 2 credits

Machine Technology

Average Salary \$37,164
Range \$32K to \$46K

- Introduction to Advanced Manufacturing & Logistics 2 credits
- Computers in Design & Production 2 credits
- Precision Machining I 4-6 credits
- Precision Machining II 4-6 credits

Welding

Average Salary \$31,979
Range \$30K to \$33K

- Introduction to Adv Manufacturing & Logistics - 2 credits
- Computers in Design & Production Systems 2 credits
- Welding Technology I 4-6 credits
- Welding Technology II 4-6 credits

Public Safety

Criminal Justice

Average Salary \$45,521
Range \$31K to \$49K

- Interpersonal Relationships 1-2 credits
- Criminal Justice I 4-6 credits
- Criminal Justice II 4-6 credits

EMT/Paramedic

Average Salary \$37,033
Range \$37K to \$37K

- Human Development and Wellness
- Health Science Education I
4 credits
- Emergency Medical Services
4-6 credits

Fire & Rescue

Average Salary \$43,820
Range \$36K to \$58K

- Interpersonal Relationships 1-2 credits
- Fire and Rescue I 4-6 credits
- Fire & Rescue II 4-6 credits

Transportation

Automotive Collision Repair

Average Salary \$39,516
Range \$34K to \$43K

- Introduction to Transportation 2 credits
- Automotive Collision Repair Technology I 4-6 credits
- Automotive Collision Repair Technology II 4-6 credits

Automotive Technology

Average Salary \$34,038
Range \$34K to \$51K

- Introduction to Transportation 2 credits
- Automotive Service Technology I 4-6 credits
- Automotive Service Technology II 4-6 credits

Aviation

Average Salary \$60,051
Range \$57K to \$63K

- Introduction to Transportation 2 credits
- PLTW Introduction to Engineering Design 2 credits
- PLTW Principles of Engineering 2 credits
- PLTW Aerospace Engineering 2 credits
- Aviation Flight and Aviation Operations 8 credits
or
- Aviation Maintenance 6 credits

Logistics & Supply Chain Management

Average Salary \$48,768
Range \$29K to \$79K

- Introduction to Adv. Manufacturing & Logistics 2 credits
- Supply Chain Management & Logistics Operations 4-6 credits
- Warehouse Operations and Materials Handling 4-6 credits

Diesel & Heavy Equipment

Average Salary \$38,140
Range \$37K to \$41K

- Introduction to Transportation 2 credits
- Diesel Service Technology I 4-6 credits
- Diesel Service Technology II 4-6 credits