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HIGH SCHOOL

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If you are interested in ... Health Science

Pathway to Health Science Degrees	University	Code	Credits
AP Biology			3-5
Chemistry	Indiana University	C105/125	5
AP Chemistry			3-5
AP Physics 1			3-4
Anatomy	Ball State University	ANAT 201	3
Physiology	Ball State University	PHYS 215	5
AP Calculus AB			3-4
Calculus I	Indiana University	M211	4
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3
Intro to Health Careers	Ivy Tech	HLHS 100	3
Medical Terminology	Ivy Tech	HLHS 101	3

Students are encouraged to take a World Language course as an elective to increase global understanding and improve employment potential.

Possible Careers:
 Physician
 Dentist
 Dental Hygienist
 EMT
 Paramedic
 Optometry
 Toxicologist
 Laboratory Technician
 Pharmacist
 Surgical Technician
 Athletic Trainer
 Chiropractor
 Physical Therapist
 Occupational Therapist
 Physician Assistant

High School courses:
 Biology
 Chemistry
 Physics
 Microbiology
 Genetics
 Anatomy
 PLTW Biomedical Studies

Possible College Majors:
 Pre-Med
 Medical Assistant
 EMT
 Dental
 Biotechnology
 Pharmacy
 Health Science
 Athletic Training
 Public Health

Get the Facts:

- Biotechnology is predicted to be one of the most important applied sciences of the 21st century
- The dental industry is in critical need of dental assistants. Dentists are hiring more assistants to perform routine tasks so that they may devote more time to complex procedures
- Emergency medical technicians and paramedics must have formal training and certification.
- A growing and aging population and technological advances in medicine make medical assistants one of the fastest growing occupations nationwide, having a projected job growth of 31 percent through the year 2020
- Physical Therapy is ranked among the top 10 fields, and is expected to remain a top field well into the 21st century



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If you are interested in ... Nursing

Pathway to Nursing Degrees	University	Code	Credits
AP Biology			3-5
Chemistry	Indiana University	C105/125	5
AP Chemistry			3-5
Anatomy	Ball State University	ANAT 201	3
Physiology	Ball State University	PHYS 215	5
AP Calculus AB			3-4
Calculus I	Indiana University	M211	4
Finite Mathematics	Indiana University	M119	3
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3
AP Psychology			3
Sociology	Ball State	S100	3
Intro to Health Careers	Ivy Tech	HLHS 100	3
Medical Terminology	Ivy Tech	HLHS 101	3
CNA Prep	Ivy Tech	HLHS 107	5

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Possible Careers:

Advanced Practice Nurse
 Certified Nursing Assistant
 Certified Nurse Midwife
 Licensed Practical Nurse
 Registered Nurse
 Medical Assistant

High School Courses:

Biology
 Chemistry
 Microbiology
 Genetics
 Anatomy
 Psychology
 Sociology
 PLTW Biomedical Studies

Possible College Majors:

Nursing

Get the Facts:

- In the U.S., registered nurses (RNs) hold 2.6 million jobs, making registered nursing the largest health care occupation
- About 6 out of 10 RN jobs are in hospitals, in inpatient and outpatient departments.
- Registered Nurse ranks #2 on the Hoosier Hot 50 Jobs list.
- According to the Indiana Department of Workforce Development (INWD) 57,312 registered nurses (RN) were employed in Indiana in 2010. INWD predicts that the number of RNs employed in Indiana RNs will grow to 70,110 by 2018, a 22.1% increase. Similar growth is predicted for employed LPNs.



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If you are interested in ... Technology

Pathway to Technology Degrees	University	Code	Credits
AP Computer Science			3
AP Calculus AB			3-4
Calculus I	Indiana University	M211	4
AP Calculus BC			3-4
Calculus II	Indiana University	M212	4
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3
Technology and the Individual	Purdue Polytechnic	TECH120	3
Intro to Systems Development	Purdue Polytechnic	CNIT180	3
Technical Graphics Communications	Purdue Polytechnic	CGT110	3
Production Design and Specifications	Purdue Polytechnic	MET102	3
Intro to Computer Graphics	Ivy Tech	VISC 115	3

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Possible Careers:

LAN Administrator
Network Analyst
Network Engineer
Network Control Operator
Database Engineer
Web Developer
Web Administrator
Computer Programmer
Game Programmer
Software Engineer
Graphic Designer

High School Courses:

Intro to Computer Science
Computer Programming I, II
Computer Tech Support
Web Design I, II
Digital Photography
Visual Communications I, II
Business Law

Possible College Majors:

Computer Science
Graphic Design
Engineering Technology
Industrial Technology
Computer Information Technology
Network Engineering
Robotics

Get the Facts:

- Information Technology workers are needed in nearly every industry. The demand for technically skilled workers is growing in almost every industry, not just in those considered high-tech
- Computer systems analysts, database administrators, and computer scientists are projected to be among the fastest growing occupations through the year 2020
- Multimedia programs combine art and technology to present text, images and sound in digital form
- The American Institute of Graphic Arts reports that nine out of 10 artists have a college degree, most with a major in graphic design.



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If you are interested in ... Business

Pathway to Technology Degrees	University	Code	Credits
Calculus	Indiana University	M119	3
Finite Math	Indiana University	M118	3
AP Microeconomics			3
AP Macroeconomics			3
Business Administration	Indiana University	X100	3
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3

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Possible Careers:
 Accountant
 Bookkeeper
 Chief Financial Officer
 Tax Examiner
 Small Business Owner
 Business Manager
 Advertising Account Executive
 Market Research Analyst
 Retail Sales Manager

High School Courses:
 Marketing I, II
 Sports Marketing
 Entrepreneurship
 Business Management
 Accounting
 Business & Personal Finance
 Business Law

Possible College Majors:
 Accounting
 Marketing
 Finance
 Entrepreneurship
 Business Law & Ethics
 International Business
 Organizational Behavior & Human Resources
 Economics

Get the Facts:

- Accountants, those with a CPA, continue to be in demand in both public and private industry audit and tax specialties. Demand is especially high in the tax and health care areas.
- One in five American workers is employed in the retail industry in full-time, part-time, and seasonal positions
- Marketing Specialist, Management Analyst, Sales Representative, Accountant, and Personal Financial Advisor are all listed on the Hoosier Hot 50 Jobs list, as ranked by the Indiana Department of Workforce Development (DWD).



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If you are interested in ... Engineering

Pathway to Technology Degrees	University	Code	Credits
AP Calculus AB			3-5
Calculus I	Indiana University	M211	4
AP Calculus BC			3-5
Calculus II	Indiana University	M212	4
AP Physics I			3
AP Physics II			3
AP Physics C			Up to 10
Technical Graphics Communication	Purdue Polytechnic	CGT110	3
Production Design and Specifications	Purdue Polytechnic	MET102	3
Composition	Indiana University	W131	3

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Possible Careers:
 Civil Engineer
 Mechanical Engineer
 Electrical Engineer
 Chemical Engineer
 Biomedical Engineer
 Aerospace Engineer
 Agricultural Engineer
 Environmental Engineer
 Industrial Engineer
 Nuclear Engineer
 Health & Safety Engineer

High School Courses:
 PLTW Intro to Engineering Design
 PLTW Principles of Engineering
 PLTW Digital Electronics
 PLTW Civil Engineering & Architecture
 PLTW Aerospace Engineering
 Computer Programming I

Possible College Majors:
 Biomedical Engineering
 Chemical Engineering
 Civil Engineering
 Electrical Engineering
 Mechanical Engineering
 Nuclear Engineering

Get the Facts:

- Due to the expansion of jobs in the technical fields and the increasing numbers of engineers who are retiring, the number of job openings in technology and engineering is increasing. There is a critical shortage of engineers and engineering technologists entering the field at a time when technology is reinventing itself every few years.
- Nationally, engineering is the second largest of all professions.
- Employment of civil engineers is expected to grow by 20 percent from 2012 to 2022. As infrastructure continues to age, civil engineers will be needed to manage projects to rebuild bridges, repair roads, and upgrade levees and dams.



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If you are interested in ... Agriculture

Pathway to Technology Degrees	University	Code	Credits
AP Biology			3
AP Environmental Science			3
Advanced Life Science Animals*	Purdue University	ANSC 10200	3
Advanced Life Science Plant & Soil*	Purdue University	BTNY 21000	3
AP Physics I			3
AP Physics II			3

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* Available at HSEHS only

Possible Careers:
 Agricultural Engineer
 Arborist
 Botanist
 Forest Geneticist
 Greenhouse Operator
 Landscape Architect
 Forest Worker
 Park Manager
 Wildlife Officer
 Meteorologist

High School Courses:
 Biology
 Chemistry
 Meteorology
 Botany
 Landscape Management*
 Horticulture Science*

Possible College Majors:
 Agribusiness
 Crop Science
 Farm Management
 Fisheries & Aquatic Science
 Food Science
 Forestry
 Landscape Architecture
 Meteorology
 Environmental Science

Get the Facts:

- According to the American Farm Bureau Federation, 82 million American households spend \$35.1 billion annually at lawn and garden retail outlets.
- Twenty-one million people (or 18.5 percent of the American workforce) are employed in the agricultural industry.
- Farmers and ranchers provide food and habitat for 75 percent of the nation's wildlife.
- One-fourth of the world's beef and one-fifth of the world's grain, milk, and eggs are produced in the United States.
- Approximately 24 percent of all U.S. agricultural products are exported yearly, including 114 million tons of grains and feed, 4 million tons of poultry meats, and 2 million tons of fresh vegetables



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If you are interested in ... Law & Government

Pathway to Technology Degrees	University	Code	Credits
AP Government			3
Intro to American Politics	Indiana University	Y103	3
AP Comparative Government			3
Sociology	Ball State	SOC 100	3
Intro to American Criminal Justice	Ball State	CJC 101	3
Intro to Criminology*	Ball State	CJC 102	3
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3
AP Seminar			3
AP Research			3

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* Online only

Possible Careers:

Corporate Lawyer
Civil Rights Lawyer
Environmental Lawyer
Health Lawyer
International Lawyer
Tax Lawyer
Law Clerk
Paralegal
Chief Legal Officer
Criminal Investigator
Customs Agent
FBI Agent

High School Courses:

Constitutional Law
Business Law
Law Education
Economics

Possible College Majors:

Political Science
Public Policy
Criminal Justice
Civic Leadership
Psychology
Sociology

Get the Facts:

- In May 2011, the US Bureau of Labor Statistics projected 18% employment growth for paralegals and legal assistants nationwide from 2010 to 2020.
- Employment of lawyers is expected to grow 10 percent from 2012 to 2022.
- Employment of mediators and arbitrators will also increase in this time frame.



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If you are interested in ... Communications

Pathway to Technology Degrees	University	Code	Credits
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3
Intro to Computer Graphics	Ivy Tech	VISC 115	5
Multimedia Photography	Ball State	NEWS 131	1
Journalism Story Telling	Ball State	NEWS 105	2
AP Seminar			3
AP Research			3

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Possible Careers:
 Radio Station Manager
 TV/Digital Media
 Newspaper
 Broadcaster
 Information Technology Manager
 Creative Director
 Public Relations
 Speech Writer
 Lobbyist
 Photojournalist
 Press Secretary
 Interpreter
 Translator

High School Courses:
 Mass Media: Video and Sound
 Digital Photography
 Journalism
 Photojournalism
 Visual Communications I, II
 Sports Marketing
 Web Design

Possible College Majors:
 Journalism
 Sports Journalism
 Public Relations
 Film & Media Studies
 Telecommunications

Get the Facts:

- Multimedia programs combine art and technology to present text, images and sound in digital form.
- Employment of interpreters and translators is expected to grow by 46 percent from 2012 to 2022, mainly driven by increasing globalization, making it one of the fastest-growing occupations nationally
- Employment of public relations specialists is expected to grow by 12 percent from 2012 to 2022.



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If you are interested in ... Liberal Arts

Pathway to Liberal Arts Degrees	University	Code	Credits
Composition**	Indiana University	W131	3
Speech**	Indiana University	S121	3
US History**	Indiana University	H105/H106	6
AP European History			3
Sociology**	Ball State	SOC 100	3
AP Psychology			3
AP Seminar			3
AP Government			3
Intro to American Politics**	Indiana University	Y103	3
Music Appreciation**	Ball State	MUHIS100	3
AP Studio Art			3

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Possible Careers:

- Advertising Agent
- Art Director
- Editor
- Technical Writer
- Social Worker
- Psychologist
- Counselor
- Translator
- Biographer
- Historian
- Travel Agent
- Musician
- Community Service Manager

High School Courses:

- Creative Writing
- Classical Literature
- Literary Movements
- Theatre Arts
- Comparative Religions
- Psychology
- Sociology
- Drawing, Ceramics, Painting, Music Theory

Possible College Majors:

- History
- English
- World Language
- Fine Arts
- Anthropology
- Geography
- Global Studies
- Psychology
- Music
- Theatre

Get the Facts:

- ** Course is on Indiana Core Transfer Library list; credits will transfer to any in-state public university. Visit www.TransferIN.net for details.
- According to the American Association of Colleges & Universities, 80% of employers agree that, regardless of their major, all students should acquire broad knowledge in the liberal arts and sciences.
- 93% of employers surveyed stated that a demonstrated capacity to think critically, communicate clearly, and solve complex problems is more important than a candidate's undergraduate major.



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If you are ... Undecided

Pathway to Core Classes	University	Code	Credits
Composition	Indiana University	W131	3
Speech	Indiana University	S121	3
Calculus	Indiana University	M119	3
Finite Math	Indiana University	M118	3
Intro to American Politics	Indiana University	Y103	3
AP Seminar			3
AP Research			3
Sociology	Ball State	SOC 100	3
AP Biology			4
AP Environmental Science			3
Music History & Appreciation	Ball State	MUHIS 100	3

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Possible Outcomes:

- Some universities offer a general studies bachelor's degree.
- Some graduate programs, such as law schools, do not require a specific undergraduate degree.
- Many industry professions use bachelor's degrees as a benchmark for skill-related careers but do not specify a particular major.
- Students can advance further in the military officer school, with higher rank and more job opportunities with a bachelor's degree.

High School Courses:

Speech
 Debate
 Probability & Statistics
 Astronomy
 Zoology
 Psychology
 Sociology
 Economics
 Introduction to Business
 Photography

Get the Facts:

- 93% of employers surveyed by the American Association of Colleges & Universities stated that a demonstrated capacity to think critically, communicate clearly, and solve complex problems is more important than a candidate's undergraduate major.
- Career inventories are available on Naviance and from a variety of other sources to help students gauge potential areas of interest.
- Students can take foundation classes that are more likely to transfer to a variety of colleges and majors and fulfill core requirements.