This comprehensive two-year program prepares students for entrance into professional engineering schools. It is designed to extend the scope of student undergraduate education by avoiding premature specialization. Required courses emphasize fundamental knowledge and skills in calculus, geometry, algebra, trigonometry, statistics, dynamics, electrical/mechanical principles, thermodynamics, engineering graphics and design, physics, chemistry, humanities, and the social sciences.

ASSOCIATE OF SCIENCE (AS) DEGREE
Two-year Associate of Science programs typically contain 40 percent or more general education, with the balance in technical and profession courses. The coursework provides students with a foundation for transfer to a related baccalaureate program at a four-year institution, and equips students with skills for the job market.

TRANSFER OPPORTUNITIES
Credits from individual Ivy Tech classes transfer to colleges and universities throughout Indiana—and in some cases, entire programs transfer. Whether you are considering a program with a career in mind or want to save money by starting your bachelor’s degree at Ivy Tech, transfer options are a great way to get started.

TRANSFER AND IMPROVE YOUR SKILLS
If you want a good-paying job, you need to invest in your education. With an associate degree from Ivy Tech Community College, you’ll earn an average of $8,000 more each year than you would with just a high school degree. Over the course of your career, this has a tremendous impact on your earning power—a difference of up to $400,000. As a result, you’ll have the chance to explore opportunities that are well worth the time you’ll spend in class.
ASSOCIATE OF SCIENCE—TRANSFER TO UNIVERSITY OF EVANSVILLE
67 Credit Hours

**FIRST YEAR**
Fall Semester
- ENGR 116 Geometric Modeling for Visualization
- ENGR 140 Engineering Software Tools I
- CHEM 105 General Chemistry I
- ENGL 111 English Composition
- IVYT 1XX Life Skills Elective
- MATH 211 Calculus I

Spring Semester
- ENGR 160 Engineering Software Tools II
- COMM 101 Fundamentals of Public Speaking
- or
- COMM 102 Intro. To Interpersonal Communication
- MATH 212 Calculus II
- PHYS 220 Mechanics

**SECOND YEAR**
Fall Semester
- ENGR 251 Electrical Circuits I
- ENGR 260 Vector Mechanics-Statics
- HIST 101 Survey of American History I
- or
- SOCI 111 Introduction to Sociology
- MATH 261 Multivariate Calculus

Spring Semester
- ENGR 190 Intro to Engineering Design
- ENGR 252 Electrical Circuits II
- ENGR 261 Dynamics
- MATH 264 Differential Equations
- PHIL 101 Introduction to Philosophy
- or
- PHIL 102 Introduction to Ethics
- PHYS 221 Heat, Electricity, and Optics

ASSOCIATE OF SCIENCE—TRANSFER TO UNIVERSITY OF SOUTHERN INDIANA
67 Credit Hours

**FIRST YEAR**
Fall Semester
- ENGR 116 Geometric Modeling for Visualization
- ENGR 140 Engineering Software Tools I
- CHEM 105 General Chemistry I
- ENGL 111 English Composition
- IVYT 1XX Life Skills Elective
- MATH 211 Calculus I

Spring Semester
- ENGR 160 Engineering Software Tools II
- ENGL 112 Exposition and Persuasion
- MATH 212 Calculus II
- PHYS 220 Mechanics

**SECOND YEAR**
Fall Semester
- ENGR 251 Electrical Circuits I
- ENGR 260 Vector Mechanics-Statics
- MATH 335 Calculus III (USI)
- PHYS 221 Heat, Electricity and Optics

Spring Semester
- ENGR 190 Intro to Engineering Design
- ENGR 252 Electrical Circuits II
- ENGR 261 Dynamics
- COMM 101 Fundamentals of Public Speaking
- MATH 433 Differential Equations (USI)
- Elective Social & Behavioral Science Elective

Program Advisor: Bill Perry
Phone: (812) 429-1475
Email: bperry@ivytech.edu

To learn more about employment and salary information for careers in this field, visit the U.S. Department of Labor's Bureau of Labor Statistics website at bls.gov and the official career site of the State of Indiana, indiana careerconnect.com.

Ivy Tech Community College is accredited by North Central Association of Colleges and Schools.