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.

EARN MORE 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

68-70 Credit Hours

FIRST YEAR
Fall Semester
ENGR 190  Intro to Engineering Design
ENGR 140  Engineering Software Tools I
MATH 211  Calculus I
CHEM 105  General Chemistry I
ENGL 111  English Composition
IVYT 1XX  Student Success Elective

SECOND YEAR
Fall Semester
ENGR 251  Electrical Circuits I
ENGR 260  Vector Mechanics-Statics
MATH 261  Multivariate Calculus
PHYS 220  Mechanics
HIST 101  Survey of American History I
or
SOCI 111  Introduction to Sociology

Spring Semester
ENGR 252  Electrical Circuits II
ENGR 261  Dynamics
ENGR 279  Capstone Course
MATH 264  Differential Equations
PHYS 221  Heat, Electricity, and Optics
PHIL 101  Introduction to Philosophy
or
PHIL 102  Introduction to Ethics

ASSOCIATE OF SCIENCE—TRANSFER TO UNIVERSITY OF SOUTHERN INDIANA

68-70 Credit Hours

FIRST YEAR
Fall Semester
ENGR 190  Intro to Engineering Design
ENGR 140  Engineering Software Tools I
MATH 211  Calculus I
CHEM 105  General Chemistry I
ENGL 111  English Composition
IVYT 1XX  Student Success Elective

SECOND YEAR
Fall Semester
ENGR 251  Electrical Circuits I
ENGR 260  Vector Mechanics-Statics
MATH 335  Calculus III (USI)
PHYS 220  Mechanics
Elective  Social & Behavioral Science Elective

Spring Semester
ENGR 252  Electrical Circuits II
ENGR 261  Dynamics
ENGR 279  Capstone Course
MATH 433  Differential Equations (USI)
PHYS 221  Heat, Electricity, and Optics
COMM 101  Exposition and Persuasion
or
COMM 102  Intro. To Interpersonal Communications

Program Advisor:  Brad Kicklighter, P.E.
Phone:  (812) 429-1407
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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, indianacareerconnect.com.

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