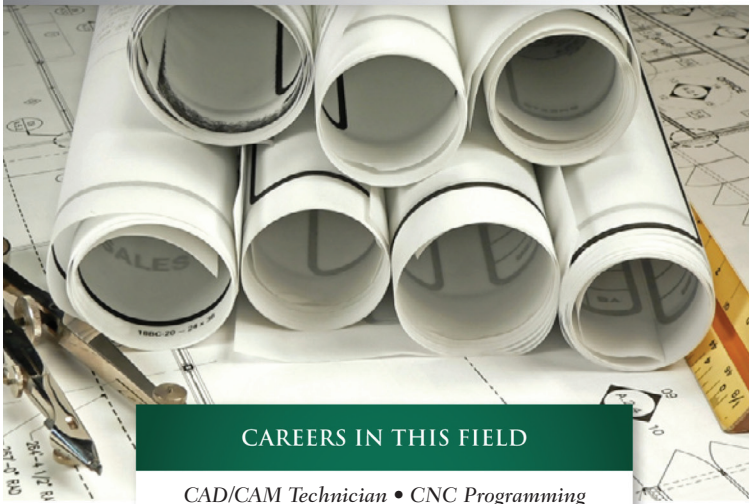


SCHOOL OF TECHNOLOGY

DESIGN TECHNOLOGY



CAREERS IN THIS FIELD

CAD/CAM Technician • CNC Programming

Designer • Drafter

Graphic Designer • Illustrator

Do you want to know the secrets of good design? The Design Technology program will show you how you can become a valuable member of an engineering team. You'll learn how to design solutions for modifying new or existing buildings, developing innovative commercial products, creating compelling animations and technical brochures, or design and program complex manufactured parts.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

Two-year Associate of Applied Science degree programs prepare students for careers, career changes and career advancement. AAS programs may also prepare students for transfer to four-year institutions. The program content, which is approximately 30 percent general education, provides depth and breadth in conceptual and professional/technical skills.

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.

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.

Not all concentrations are offered at all campuses. Please contact your local Ivy Tech Community College campus for more information.

CONCENTRATIONS IN THIS PROGRAM

ARCHITECTURE

This concentration emphasizes the fundamentals of architectural design, architectural history, basic engineering principles, residential and commercial construction drawings, and construction materials and their applications.

CIVIL

The civil concentration places emphasis on construction materials, structural design and surveying. You will be prepared for employment with civil engineering firms, construction firms, surveying firms and highway departments.

COMPUTER AIDED DESIGN & MANUFACTURING

The curriculum makes extensive use of 3D parametric solid part modeling with additional emphasis on the generation of tool path data for control of sophisticated Computer Numerically Controlled (CNC) machine tools. Instruction includes both manual programming methods and leveraged techniques using modern CAM software. You will have hands-on experience programming and operating a 3-axis vertical CNC machining center and a CNC turning center.

COMPUTER GRAPHICS

This concentration combines technical drawing and fine arts drawing. You will be prepared for a career in graphic illustration or commercial art, designing catalogs, magazine and newspaper advertising, and entry level animation used in movie production.

CONSTRUCTION ENGINEERING (AS DEGREE ONLY)

Areas of study include construction materials specification and estimation, architectural history, architectural design, documentation of building plans, surveying, basic civil engineering principles, and basic structure theory. Upon completion, you can transfer to IUPUI's Construction Management Program and complete a Bachelor of Science in Construction Management.

MECHANICAL

Areas of study include design and manufacturing documentation, 3D parametric solid modeling, kinematic analysis, and manufacturing processes. Graduates are skilled in wireframe, surface, solid, and parametric solid 3D modeling.



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