Welcome

We are delighted that you’ve expressed an interest in pursuing educational opportunities at Ivy Tech Community College-Lafayette. The Design Technology program represents an exciting field of study that you will find both challenging and rewarding. The Design Technology curriculum provides the opportunity for graduates to be productive immediately upon graduation. Potential employers encompass a wide variety of disciplines including architectural and engineering, consumer products, medical products, durable goods, government and education, and many others. Graduates most often fill positions as Computer Aided Design (CAD) Technicians, Design Drafters, Mechanical or Architectural Drafters, BIM Designers, BIM Drafters, Engineering Administrator, Engineering Technical Assistants, and Product Designers. The Design Technology curriculum stresses technical rigor to allow the graduate to keep abreast of emerging technologies and applications in the field. The ultimate goal is to prepare the graduate to effectively compete and advance professionally in the engineering technology and design disciplines.

Accreditation

The Design Technology program is accredited by The Association of Technology, Management, and Applied Engineering (ATMAE).

Ivy Tech Community College - Lafayette
Admissions:
888-IVY-LINE
(765-269-5200)
www.ivytech.edu

Design Technology Curriculum and Course Descriptions

Curriculum for Design Technology varies based on the degree or certificate and is subject to change.

Go to www.ivytech.edu/design-technology to find recommended course curriculum and course descriptions.

Ivy Tech Community College
3101 Creasy Lane
Lafayette, IN 49705
Phone (765) 269-5229

For more information email the School of Technology
lafayette-sot@lists.ivytech.edu
Overview

The Design Technology program prepares students for challenging professions in the design disciplines. Students may focus their program of study in, Architectural Design, Mechanical Design, and Computer Graphics. Students have access to the most current hardware and software used in the disciplines.

Lab facilities are equipped with high capacity workstations, 3D Printers, 3D Scanners and the latest in design and modeling software including AutoCAD, Inventor, SolidWorks, Revit, Vertex BD and Adobe Suite.

Overall program emphasis is on application based learning with technical rigor and foundation development. Graduates have the skills and knowledge required to respond to future employment challenges or continue their education at other colleges or universities.

Design Technology Degrees

ASSOCIATE OF SCIENCE (AS) DEGREE
Two-year Associate of Science programs typically contain 40% or more general education, with the balance in technical and professional 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 Pathway

PURDUE UNIVERSITY-(BCMT)

BUILDING CONSTRUCTION MANAGEMENT
Students interested in the field of building construction management can begin their studies at Ivy Tech Community College Lafayette, transfer to Purdue University and pursue a bachelor’s degree under a new transfer pathway agreement between the two institutions. Ivy Tech graduates who successfully complete an associate of science degree in Design Technology can transfer seamlessly into Purdue’s Polytechnic institute as a junior and continue their education towards a bachelor of science degree in Building Construction Management (BCMT).

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.

Professional/technical courses equip students with the skills to obtain employment and to advance in the workforce.

GRADUATE TITLES
- Senior Designer
- Product Manager
- Drafter/Designer
- Product Designer
- Engineering Administrator
- Mechanical Designer
- BIM Drafter
- BIM Designer
- Graphic Designer

Elective Focus Areas

ARCHITECTURE
This focus area provides students with the skills to work in the areas of architectural drafting, detailing and presentation, simple structural design, planning, estimating, inspection, and materials testing. The curriculum is not intended to prepare students for registration as professional architects. Emphasis is on fundamentals of architectural design, building information modeling (BIM), basic engineering principles, 2D & 3D residential and commercial construction drawings, construction materials and their applications.

MECHANICAL TECHNOLOGY
This focus area prepares students to begin careers in engineering design support. Areas of study include design and manufacturing documentation, constraint based modeling, 3D assemblies, design intent, design processes and manufacturing processes, as well as industrial graphics standards.

COMPUTER GRAPHICS
This focus area emphasizes both the technical and aesthetic aspects of design. You will be prepared for careers in creative and technical arenas, which consist of computer illustration, commercial art, and creating artwork for a variety of marketing materials.

CERTIFICATIONS
Application based learning and course rigor prepares students for certification tests for the following areas:
- AutoCAD Certified Professional
- SolidWorks CSWA