DRAFTING AND DESIGN

From the grandest skyscrapers to the smallest cabins, every building project must start with a plan. These plans consist of drawings, models, specifications, and other paperwork that must be prepared before digging in. At Wayne State College, you’ll study mechanical and architectural drafting, along with computer rendering and design project presentation. You’ll learn new software and applications to forward your success with a drafting degree. Here you’ll create a foundation of building design knowledge, so you’re ready to work with construction workers and others in the drafting and design field.

Skills Learned
• Residential drawing
• Technical drawing and solid modeling
• Architectural design
• Construction estimating and scheduling
• 3-D modeling, rendering, and design
• Surveying and print reading
• Electricity and electronics
• Occupational and environmental safety
• Manufacturing processes and systems
• Welding and fabrication
• Construction systems and technology

Possible Careers
• Mechanical drafter
• Residential designer
• Architectural drafter
• CAD technician
• 3-D designer / renderer
• Product designer
• Industrial designer
• Estimator
• Project manager
• Building inspector
• Educator / trainer

Types of Employers
• Construction companies
• Architectural firms
• Home manufacturers
• Infrastructure companies
• Interior design firms
• Manufacturing companies
• Aircraft, marine, and vehicle companies
• Machine shops
• Graphic companies
• Government / federal agencies

Outside the Classroom
Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

Activities / Opportunities
• Construction and manufacturing facility tours
• Peer tutoring and mentoring
• Service-Learning
• Study Abroad

Clubs / Organizations
• Associated General Contractors of America
• SkillsUSA

Focus on Results

Focus on results

Hours:
57 hours for concentration
30 hours in general education
At least 120 hours are required for graduation from Wayne State College. You may add electives or a minor to help meet these requirements.

Degrees offered: B.A. or B.S.

Departments: Technology and Applied Science

Schools: Business and Technology

Internship: Required for credit toward your degree

Popular minors: Safety, Manufacturing Management, Business Administration

FAST FACTS

2018-19 Academic Year

Revised 7/19/18

2018-19 Academic Year
FRESHMAN - 1st semester
ENG 102 English Composition Skills (General Studies CAT 1)........... 3
*ITE 109 Mechanical and Engineering Drafting and Design............. 3
ITE 214 Residential Drawing...................................................... 3
General Studies........................................................................ 6

FRESHMAN - 2nd semester
**ITE 204 Intro to Applied Engineering........................................... 3
**ITE 211 Architectural and Industrial Finishing............................... 3
Math by advisement (General Studies CAT 3)................................ 3
General Studies........................................................................ 6

SOPHOMORE - 1st semester
CIS 130 Intro to Computer/Information Technology.......................... 3
ITE 202 Construction Systems..................................................... 3
***ITE 309 Parametric 3-D Modeling and Industrial Design.............. 3
Elective/minor........................................................................... 3
General Studies........................................................................ 6

SOPHOMORE - 2nd semester
BUS 208 Business Communications................................................ 3
**ITE 205 Intro to Manufacturing Technology.................................. 3
**ITE 330 Welding Theory and Fabrication.................................... 3
Elective/minor........................................................................... 3
General Studies........................................................................ 3

JUNIOR - 1st semester
*ITE 304 Surveying and Print Reading............................................. 3
***ITE 322 Fundamentals of CNC Machining.................................... 3
Electives/minor.......................................................................... 6
General Studies........................................................................ 3

JUNIOR - 2nd semester
ITE 314 Architectural Design........................................................... 3
****ITE 412 Industrial Prototypes and Manufacturing Design........... 3
Electives/minor.......................................................................... 6
General Studies........................................................................ 3

SENIOR - 1st semester
BUS 471 Principles of Supervision.................................................... 3
*ITE 390 Project Bidding and Estimating......................................... 3
Electives/minor.......................................................................... 9

SENIOR - 2nd semester
**CIS 477 Project Management...................................................... 3
****ITE 367 Building Climate, Energy Control, and Sustainability..... 3
****ITE 404 Commercial and Structural Design.............................. 3
ITE 497 Internship....................................................................... 3
Electives/minor.......................................................................... 3

*Offered fall semester only
**Offered spring semester only
***Offered fall semester every other year
****Offered spring semester every other year

The following courses must be passed with a C or better before taking the next level coursework: ITE 109, ITE 202, ITE 214, ITE 308, and ITE 390.

drafting and design faculty

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Dave Hix, MSE
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