



INDUSTRIAL COMPUTER GRAPHICS TECHNOLOGY

- College Certificate
- Associate of Applied Science

About The Program

The Industrial Computer Graphics Technology program provides students with career-based training in mechanical design using computer-aided drafting/design technology. To provide the necessary technical education base, the program also includes education and training in applied technical mathematics, engineering drawing, and geometric dimensioning and tolerance skills.

Basic training in computer technology is included to prepare students for the two-dimensional, three-dimensional and solid-modeling computer-aided design technology in the program.

All technical manufacturing and engineering design in today's high-technology business and industry uses computer-based, computer-aided design technologies that integrate the design, engineering and manufacturing design analysis, and manufacturing of complex products and product parts, sub-assemblies, and assemblies into a single, technically coherent process.

Career Potential

- Detailer
- Mechanical Draftsperson
- CAD Operator
- Cost Estimator
- Plant Layout Specialist
- Product Designer

Admission Requirements

Individuals interested in the Industrial Computer Graphics Technology program are required to fulfill the following requirements:

- College admission requirements.
- Declare their program intent to enter the Industrial Computer Graphics Technology program on the WCCCD Admission. Application or change their program intent within the admission office.
- Course placement requirements based on COMPASS test results.
- Program Admission Application during the semester they are enrolled in CAD 101 or CAD 110.

Associate of Applied Science Degree Requirements

SEMESTER I

DRT 101	Blueprint Reading	3
DRT 102	Fundamentals of Mechanical Drawing	4
CAD 101	Introduction to CAD - Or -	4
CAD 110	Introduction to Unigraphics CAD/CAM	4
MAT 121	Technical Mathematics I	3
MAN 110	Manufacturing Process I	3
Total		17

SEMESTER II

DRT 112	Technical Drawing	3
DRT 113	Descriptive Geometry	3
CAD 102	Advanced Computer Aided Design - Or -	4
CAD 222	Unigraphics Solids Modeling	4
ENG 119	English I	3
Total		13

SEMESTER III

CAD 121	Tool & Fixture Detailing	4
CA 203	CAD Applications - Or -	4
CAD 224	Unigraphics Assembly/Components/Drafting	4
MAT 122	Technical Mathematics II Elective	3
	Humanities Elective	3
Total		17

SEMESTER IV

CAD 211	Die Design	3
DRT 115	Geometric Dimensioning Tolerancing Elective	2
ENG 134	Technical Communications	4
PS 101	Introduction to Political Science	3
Total		15

PROGRAM

TOTAL CREDITS 62
* Program totals may not include prerequisite work.

College Certificate Requirements

SEMESTER I

DRT 101	Blueprint Reading	3
DRT 102	Fundamentals of Mechanical Drawing	4
CAD 101	Introduction to CAD - Or -	4
CAD 110	Introduction to Unigraphics CAD/CAM	4
MAT 121	Technical Mathematics I	3
MAN 110	Manufacturing Process I	3
TOTAL		17

SEMESTER II

DRT 112	Technical Drawing	3
DRT 113	Descriptive Geometry	3
CAD 102	Advanced Computer Aided Design - Or -	4
CAD 222	Unigraphics Solids Modeling	4
ENG 119	English I	3
TOTAL		13

CERTIFICATE

TOTAL CREDITS 30

* Certificate totals may not include prerequisite work.

WCCCD Central Administration Building

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Detroit, MI 48226

General Information Number
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Career Program Hotline
1-800-300-2118

Information Website:
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