

MECHANICAL DESIGN TECHNOLOGY

Program Description

Changes are occurring right now in manufacturing that make it necessary for potential employees to have higher skill levels than ever before. Critical thinking, problem solving, math, science, computer abilities, team building and communication skills are at the top of the list. Any graduate from the EICC Mechanical Design Technology program will receive these skills as part of their intensive computer aided design (CAD) training. The Mechanical Design Technology program includes proficiencies require by industry, delivered in a practical hand's on method that applies directly to the world of work.

Parametric solid modeling is now the standard in the industry. That's why here at EICC we incorporated it into our curriculum several years ago. We offer solid modeling training in the industry standard software of SolidWorks, all the while requiring hundreds of hours of lab time which prepares our students well for employment. Our graduates' extensive CAD training gives them the edge they need to succeed in today's job market.

Award Options

Mechanical Design Technology Associate of Applied Science
Mechanical Design Technology Diploma
Mechanical Design Technology Certificate
Solid Modeling Certificate

All four of these awards/paths to completion are available via the EICC MediaSite system and are offered at the Blong Technology Center in Davenport as well as Clinton Community College and Muscatine Community College.

What is MediaSite?

Starting in the fall of 2009, the Mechanical Design Technology program has been offered district-wide through the EICC MediaSite system. This technology allows students access to lectures via the internet at the BTC, CCC, or MCC sites, or any site of the student's choosing as long as there is internet access. Instructors are available on each campus on a set schedule, with lab and classroom also available at each site. It is the responsibility of the student to make sure he or she allows adequate time to complete assigned work for any course they are enrolled in.

Job Classification

Titles include: drafting technician, design technician, mechanical drafter, mechanical designer, engineering technician, detailer, etc. All consist of design and development work by preparing detailed drawings showing exact dimensions and specifications – most prepared on CAD systems.

Job Outlook

The United States Bureau of Labor Statistics (BLS) expects that the employment of mechanical drafters will keep pace with the average rate of growth experienced by all occupations from 2014 to 2020, increasing by about 11% over the decade.

For details, please visit <http://www.bls.gov/ooh/>



THE *Community's College*



SCOTT COMMUNITY COLLEGES

Program Faculty

Brad McConnell

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Blong Technology Center (BTC)

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Davenport, IA 52804

563-441-4360

www.eicc.edu

Toll-free 1-888-336-3907

Our Web Links:

www.eicc.edu/apply

www.eicc.edu/visit

www.eicc.edu/programs

www.eicc.edu/daretocompare

www.eicc.edu/financialaid

www.eicc.edu/catalog

Tuition and fees subject to change by the EICC Board of Trustees.

MECHANICAL DESIGN TECHNOLOGY

Mechanical Design Technology AAS Degree

TERM 1

Session I

CAD:286	SolidWorks – Modeling	3.00
DRF:131	Basic Drafting and Design I	3.00
MAT:142	Technical Mathematics I	1.50

Session II

CAD:263	SolidWorks – Assembly Modeling	3.00
DRF:132	Basic Drafting and Design II	3.00
MAT:143	Technical Mathematics II	1.50
		<u>15.00</u>

TERM 2

Session I

CAD:264	SolidWorks – Detailing	4.00
CSC:112	Computer Fundamentals for Technicians I/A	2.00
MAT:144	Technical Mathematics III	1.50

Session II

CAD:287	SolidWorks – Applications	3.00
CSC:113	Computer Fundamentals for Technicians I/B	2.00
IND:222	Geometric Tolerancing and Dimensioning	3.00
MAT:145	Technical Mathematics IV	1.50
		<u>17.00</u>

Mechanical Design Technology Certificate Total..... 32.00

TERM 3 – SUMMER

DRF:161	Descriptive Geometry	3.00
ENG:107	Composition I: Technical Writing	3.00
		<u>6.00</u>

Mechanical Design Technology Diploma Total..... 38.00

TERM 4

Session I

DRF:331	Mechanical Drafting and Design I	3.00
EGT:161	Strength of Materials I/A	1.50
MFG:186	Plant Safety	1.00
PHY:130	Applied Physics I	1.50

Session II

DRF:332	Mechanical Drafting and Design II	3.00
EGT:162	Strength of Materials I/B	1.50
PHY:135	Applied Physics II	1.50
		<u>13.00</u>

TERM 5

Session I

EGT:163	Strength of Materials II/A	1.50
MFG:371	Manual Projects	3.00
____	Social Science/Humanities Course*	3.00

Credits

Clinton Community College

1000 Lincoln Boulevard,
Clinton, IA 52732
563-244-7001
1-800-638-0559

www.facebook.com/clintoncommunitycollegeia

Admissions Officer

Heather Evans

hlevans@eicc.edu
563-244-7007
FAX 563-244-7107

Muscatine Community College

152 Colorado Street,
Muscatine, IA 52761
563-288-6001
1-800-351-4669

www.facebook.com/muscatinecommunitycollege

Admissions Officer

Kari Hanson

khanson@eicc.edu
563-288-6007

Scott Community College

500 Belmont Road,
Bettendorf, IA 52722
563-441-4001
1-800-895-0811

www.facebook.com/scottcommunitycollege

Admissions Officer

Kelsey King – Belmont Campus

kking@eicc.edu
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FAX 563-441-4101

Amy Herrig – Urban Campus

atherrig@eicc.edu
563-336-5258

www.eicc.edu



It is the policy of Eastern Iowa Community College District not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status, as required by the Iowa Code §§216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

If you have questions or complaints related to compliance with this policy, please contact Debora J. Sullivan, Equal Employment Opportunity Officer / Equity Coordinator, Eastern Iowa Community College District, 101 West Third Street, Davenport, Iowa 52801, 563-336-3487, djsullivan@eicc.edu or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 West Madison Street, Suite 1475, Chicago, Illinois 60661-7204, phone number 312-730-1560, fax 312-730-1576, OCR. Chicago@ed.gov.

Session II

CAD:288	SolidWorks – CSWA Preparation	3.00
EGT:164	Strength of Materials II/B	1.50
MFG:372	SolidWorks/MasterCam Applications OR	3.00
CAD:290	Introduction to 3D Printing	
		15.00

Mechanical Design Technology AAS Total.....66.00

*** SOCIAL SCIENCE/HUMANITIES COURSE**

(Select one course from the following)

DRA:110	Introduction to Film	3.00
ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
HUM:110	Changes and Choices	3.00
HUM:183	Living with Space, Time and Technology	3.00
PHI:101	Introduction to Philosophy	3.00
PHI:105	Introduction to Ethics	3.00
PHI:110	Introduction to Logic	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
REL:101	Survey of World Religions	3.00
SOC:110	Introduction to Sociology	3.00

Solid Modeling Certificate

TERM 1

Session I

DRF:131	Basic Drafting and Design I	3.00
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Session II

CAD:286	SolidWorks – Modeling	3.00
		6.00

TERM 2

Session I

CAD:263	SolidWorks – Assembly Modeling	3.00
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Session II

CAD:264	SolidWorks – Detailing	4.00
		7.00

TERM 3 – SUMMER

Session I

CAD:287	SolidWorks – Applications	3.00
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Session II

CAD:288	SolidWorks – CSWA Preparation	3.00
		6.00

Solid Modeling Certificate Total.....19.00

Clinton Community College

1000 Lincoln Boulevard,
Clinton, IA 52732
563-244-7001
1-800-638-0559

www.facebook.com/clintoncommunitycollegeia

Admissions Officer

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Muscatine Community College

152 Colorado Street,
Muscatine, IA 52761
563-288-6001
1-800-351-4669

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Scott Community College

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Admissions Officer

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Amy Herrig – Urban Campus

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