

# ADDITIVE MANUFACTURING WITH 3-D MODELING

Effective Fall 2022

## Program Description

Manufacturing and product design are relying on advanced technology now more than ever before. Global competition is expanding and bringing with it the need for a new manufacturing skill set. Industry 4.0 will not only bring on higher levels of automation and connectivity but new methods of design and manufacturing as well. Through digital 3-D modeling and additive manufacturing the concept of quicker to market and faster re-design of new products becomes reality.

At EICC (Eastern Iowa Community Colleges) we are joining this new movement with our Additive Manufacturing with 3-D Modeling program. Industry is demanding these new skills and through hands on instruction with 3-D modeling software, 3-D scanning equipment and 3-D printer's students will learn these new skills. Graduates will be trained to create 3-D models and designs and to transfer digital data using paperless means. This training will give graduates a heads up in the fast-changing world of Advanced Manufacturing.

## Award Options

Digital Modeling and Additive Manufacturing, Diploma

Additive Manufacturing, Certificate

Digital Modeling for Manufacturing, Certificate

## Non-discrimination Statement / Equal Educational Opportunities

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](mailto:djsullivan@eicc.edu) or the Director of the Office for Civil Rights U.S. Department of Education, John C. Kluczynski Federal Building, 230 S. Dearborn Street, 37th Floor, Chicago, IL 60604-7204, Telephone: (312) 730-1560 Facsimile: (312) 730-1576, TDD (800) 877-8339 Email: [OCR.Chicago@ed.gov](mailto:OCR.Chicago@ed.gov).



**THE** *Community's College*



**CLINTON, MUSCATINE  
AND SCOTT COMMUNITY  
COLLEGES**

### Department Coordinator

Brad McConnell

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[www.eicc.edu](http://www.eicc.edu)

Toll-free 1-888-336-3907

### Our Web Links:

[www.eicc.edu/apply](http://www.eicc.edu/apply)

[www.eicc.edu/visit](http://www.eicc.edu/visit)

[www.eicc.edu/programs](http://www.eicc.edu/programs)

[www.eicc.edu/daretocompare](http://www.eicc.edu/daretocompare)

[www.eicc.edu/financialaid](http://www.eicc.edu/financialaid)

[www.eicc.edu/catalog](http://www.eicc.edu/catalog)

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

# ADDITIVE MANUFACTURING WITH 3-D MODELING

## Digital Modeling and Additive Manufacturing, Diploma

<b>TERM 1</b>		<b>Credits</b>
CAD-140	Parametric Solid Modeling I	3.00
CAD-141	Parametric Solid Modeling II	3.00
CAD-203	Principles of Design	3.00
MFG-371	Manual Projects	3.00
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		12.00

<b>TERM 2</b>		<b>Credits</b>
AVR-115	3D Modeling and Animation I	3.00
CAD-147	Parametric Solid Modeling III	3.00
CAD-290	Introduction to 3D Printing	3.00
CAD-291	Design for Additive Manufacturing	3.00
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		12.00

<b>TERM 3 - SUMMER</b>		<b>Credits</b>
CAD-292	Intermediate 3D Printing	3.00
CAD-295	3D Scanning	3.00
MAT-104	Applied Mathematics	3.00
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		9.00

**Digital Modeling and Additive Manufacturing, Diploma Total .....33.00**

## Digital Modeling for Manufacturing, Certificate

<b>TERM 1</b>		<b>Credits</b>
CAD-140	Parametric Solid Modeling I	3.00
CAD-141	Parametric Solid Modeling II	3.00
CAD-203	Principles of Design	3.00
MFG-371	Manual Projects	3.00
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		12.00

<b>TERM 2</b>		<b>Credits</b>
AVR-115	3D Modeling and Animation I	3.00
CAD-147	Parametric Solid Modeling III	3.00
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		6.00

**Digital Modeling for Manufacturing, Certificate Total .....18.00**

## Additive Manufacturing, Certificate

<b>TERM 1</b>		<b>Credits</b>
AVR-115	3D Modeling and Animation I	3.00
CAD-140	Parametric Solid Modeling I	3.00
CAD-290	Introduction to 3D Printing	3.00
CAD-291	Design for Additive Manufacturing	3.00
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		12.00

<b>TERM 2</b>		<b>Credits</b>
CAD-292	Intermediate 3D Printing	3.00
CAD-295	3D Scanning	3.00
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		6.00

**Additive Manufacturing, Certificate Total .....18.00**

### Clinton Community College

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

[www.facebook.com/clintoncommunitycollegeia](http://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

[www.facebook.com/muscatinecommunitycollege](http://www.facebook.com/muscatinecommunitycollege)

#### Admissions Officer

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### Scott Community College

500 Belmont Road,  
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