

Architectural Construction Engineering Technology

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Associate of Applied Science Degree
Sioux City Campus

Program Overview and Opportunities:

The Architectural Construction Engineering Technology program is designed to prepare students for the careers of drafting, estimating, and surveying with an emphasis on commercial structures such as wood framed, steel or metal building systems. Through the aid of traditional and advanced computerized drafting techniques (CAD), students will explore architectural topics such as building materials, structural detailing, site selection, and overall building design.

There is an ever-present need for trained drafters who can take an idea and convert it into plans and specifications for the industrial, commercial, and business contractor. Program graduates have a number of employment options: drafting, sales, contracting, surveying, estimating, CAD, material sales, and new materials research. Numerous employment opportunities await every graduate.

According to the Bureau of Labor Statistics, Architectural Drafters' earnings vary by specialty, location, and level of responsibility. Median annual earnings of architectural and civil drafters were \$41,960 in May 2006. The middle 50 percent earned between \$33,550 and \$52,220. The lowest 10 percent earned less than \$27,010, and the highest 10 percent earned more than \$63,310. (Occupational Outlook Handbook. Bureau of Labor Statistics 2006-2007.)



Architectural Construction Engineering Technology Curriculum

Course #	Title	Credits
MAT 772	Applied Math	3
ARC 140	Architectural Materials & Methods I	3
CSC 110	Introduction to Computers*	3
EGT 400	PLTW – Intro to Engineering Design	3
SDV 114	Strategies for Academic Success	3
ARC 129	Residential/Light Commercial Drafting	4
MAT 775	Applied Algebra/Geometry	3
ARC 113	Architectural Drafting I	4
CAD 172	Intro to CAD: AutoCAD*	2
CAD, ELT, WEL	Technical Support Elective	2
COM 753	Technical Communications*	3
DRF 161	Descriptive Geometry I	3
ARC 155	Structural Steel Drafting	4
ARC 220	Principles of Estimating	4
ARC 170	Intro to Surveying/Building Layout	2
ARC 149	Metal Building Systems Drafting	6
CAD 175	Advanced CAD: AutoCAD	2
ARC 152	Post Frame Structure Drafting	5
ARC 251	AEC CAD I	2
PEH	Healthful Living Elective	1
PSY 102	Human and Work Relations	3
Total Credits		65

* Denotes courses commonly articulated with area high schools.

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

The courses listed above are grouped in the order that they should be taken each semester. Please see an architectural construction engineering technology program advisor to ensure correct course sequence.

Are You a Part-time Student?

See a program advisor for a list of available courses for part-time students and to develop an individualized plan of study.

Program Advisors

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