

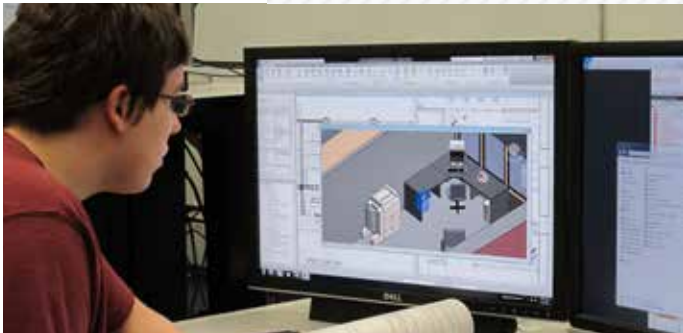


DESIGN & DRAFTING TECHNOLOGY

Associate of Applied Science Degree
Diploma
Certificate

LINCOLN AND MILFORD CAMPUSES

www.southeast.edu/DesignDraftingTechnology



Our program combines computer aided drafting and architectural design to give students options toward their career. Architectural Design is the creation of construction documents for residential and commercial structures through the use of Building Information Modeling designs. Computer Aided Design Drafting is communication through the use of graphic representation and creation of 3-D designs.

Core classes are offered on both the Lincoln and Milford campuses.

The Architectural Design focus admits new students in the Summer (July) and Winter (January) quarters at the Milford Campus.

The Computer Aided Design Drafting focus admits new students in the Fall (October) and Spring (April) quarters at the Lincoln Campus.

General Education Requirements:

Oral Communications	4.5
Written Communications	4.5
Mathematics (MATH1050 or higher)	4.5
Complete two additional classes from the four areas below; no two classes from the same area.	<u>9.0</u>
Social Science	
Humanities	
Computer Technology	
Science	

Total 22.5 credit hours

Core Courses

Course #	Course title	Credit hrs.
DDRT1120	Basic Computer Aided Drafting	4.0
DDRT1400	Virtual Building Design with Revit	4.0
DDRT1230	Print Reading	3.5
DDRT1310	3-D Visualization	3.0
DDRT1340	Strengths of Materials	4.0
DDRT1350	Estimating for Light Construction	3.5
DDRT2540	Building Safety & Design	4.5
DDRT1170	Light Construction Materials & Methods	4.0
DDRT2901	COOP Experience	<u>5.0</u>

35.5 hours

Recent graduates were hired as:

- Architectural Drafter
- CAD Drafter
- Civil BIM Technician
- Design Technician III
- Designer
- Drafter
- Electrical Engineering Drafter
- Steel Detailer
- Structural Technician

Graduate Earnings

Recent graduates report an average starting wage of \$18.27 per hour.

For more information contact:

Architectural Design focus
Paul Buell, Program Chair - Milford
402-761-8351, 800-933-7223 ext. 8351
pbuell@southeast.edu

Computer Aided Design Drafting focus
Todd Roth, Program Chair - Lincoln
402-437-2652, 800-642-4075 ext. 2652
troth@southeast.edu

or the College Admissions Office
Lincoln 402-437-2600, 800-642-4075 ext. 2600
Milford 402-761-8243, 800-933-7223 ext. 8243

Architectural Design Focus

The Architectural Design Focus expands on the core courses to provide additional training in design and construction methods used in residential and commercial buildings.

Course #	Course title	Credit hrs.
DDRT1250	Plumbing System Theory & Design	6.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1320	Heating & Air Conditioning Systems II	6.0
DDRT1420	Advanced Mechanical Systems Theory & Drafting	6.0
DDRT2750	Electrical Systems Theory & Drafting	6.0
DDRT2839	Commercial Estimating	3.5
DDRT2530	Steel Systems Design & Drafting	6.0
DDRT2546	Site Planning & Surveying	3.0
DDRT2660	Concrete & Wood Systems Design & Drafting	6.0
DDRT1338	Residential Design & Drafting	4.0
DDRT2650	Fundamentals of Commercial Architecture	7.5
		57.5 hours

Computer Aided Design Drafting Focus

The Computer Aided Design Drafting Focus expands on core courses to provide additional training in design techniques as they apply to a variety of industry applications.

Course #	Course title	Credit hrs.
DDRT1110	Design Drafting Concepts	3.0
DDRT1220	3-D Solid Modeling	3.0
DDRT1224	3-D Civil CAD	3.0
DDRT1330	Solid Works	3.0
DDRT1500	Advanced Virtual Building Design w/Revit	4.0
DDRT2110	Architectural Design	3.0
DDRT2150	Structural Steel Design w/SDS/2	3.0
DDRT2130	Industrial Plastics	3.0
DDRT2180	Professional Practice-Architectural	3.0
DDRT2200	Geometric Dimensioning & Tolerancing	3.0
DDRT2210	Engineering Processes	3.0
DDRT2215	Plastic Part Design	3.0
DDRT2220	Flat Pattern Layout	3.0
DDRT2230	Design Concepts	3.0
DDRT2240	Consumer Product Design	3.0
DDRT2260	Jigs & Fixture Design	3.0
DDRT2140	Building Utility Design	5.0
		54.0 hours



Diplomas

Architectural Diploma Courses:

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	4.0
DDRT1120	Basic Computer Aided Drafting	4.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1230	Print Reading	3.5
DDRT1350	Estimating for Light Construction	3.5
DDRT2540	Building Safety & Design	4.5
DDRT2546	Site Planning & Surveying	3.0
DDRT2650	Fundamentals of Commercial Architecture	7.5
DDRT2839	Commercial Estimating	3.5

Diploma Credits 37.0
General Education Courses 9.0
Total Credits 46.0

Mechanical/Electrical Diploma Courses:

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	4.0
DDRT1120	Basic Computer Aided Drafting	4.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1230	Print Reading	3.5
DDRT1250	Plumbing Systems Theory and Drafting	6.0
DDRT1320	Heating and Air Conditioning Systems II	6.0
DDRT1420	Advanced Mechanical Systems Theory & Drafting	6.0
DDRT2750	Electrical Systems Theory and Drafting	6.0
		Diploma Credits 39.0
		General Education Courses 9.0
		Total Credits 48.0

Residential Design Diploma Courses:

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	4.0
DDRT1120	Basic Computer Aided Drafting	4.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1230	Print Reading	3.5
DDRT1310	3-D Visualization	3.0
DDRT1350	Estimating for Light Construction	3.5
DDRT1338	Residential Design and Drafting	4.0
DDRT1400	Virtual Building Design w/Revit	4.0
DDRT2540	Building Safety & Design	4.5
DDRT2546	Site Planning & Surveying	3.0
		Diploma Credits 37.0
		General Education Courses 9.0
		Total Credits 46.0

Structural Diploma Courses:

(Classes have to be taken on both the Lincoln and Milford Campuses)

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	4.0
DDRT1120	Basic Computer Aided Drafting	4.0
DDRT1310	3-D Visualization	3.0
DDRT1340	Strength of Materials	4.0
DDRT1400	Virtual Building Design w/Revit	4.0
DDRT2150	Structural Steel Design with SDS/2	3.0
DDRT2530	Steel Systems Design and Drafting	6.0
DDRT2660	Concrete and Wood Systems Design & Drafting	6.0
		Diploma Credits 34.0
		General Education Courses 9.0
		Total Credits 43.0

Certificates

Designing Software Certificate Courses:

Course #	Course title	Credit hrs.
DDRT1220	3-D Solid Modeling	3.0
DDRT1224	3-D Civil CAD	3.0
DDRT1310	3-D Visualization	3.0
DDRT1330	Solid Works	3.0
DDRT1400	Virtual Building Design w/Revit	4.0
DDRT1500	Advanced Virtual Building Design w/Revit	4.0
DDRT2140	Building Utility Design	5.0
DDRT2150	Structural Design with SDS/2	3.0
		Certificate Credits 28.0
		General Education Courses 4.5
		Total Credits 32.5

Residential Design Certificate Courses:

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	4.0
DDRT1120	Basic Computer Aided Drafting	4.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1230	Print Reading	3.5
DDRT1350	Estimating for Light Construction	3.5
DDRT1338	Residential Design and Drafting	4.0
		Certificate Credits 22.5
		General Education Courses 4.5
		Total Credits 27.0

Estimated Expenses

To determine overall costs, students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

Nebraska Resident tuition rate is \$65.50 per credit hour. Out-of-state tuition rate is \$79.50 per credit hour. Student fee is \$2 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken.

A.A.S. DEGREE

Based on 112-115.5 credit hours at 15 credit hours per quarter, will take approx. 8 quarters to complete.

Tuition & Fees	\$7,796
Books	3,352
Total for Focus	\$11,148

DIPLOMA

Based on 43-48 credit hours at 15 credit hours per quarter, will take approx. 4 quarters to complete.

Tuition & Fees	\$3,240
Books	858
Total for Diploma	\$4,098

CERTIFICATE

Based on 27-32.5 credit hours at 15 credit hours per quarter, will take approx. 2 quarters to complete.

Tuition & Fees	\$2,194
Books	744
Total for Certificate	\$2,938

Additional supplies

Architecture Design	10
Computer Aided Design Drafting	240

