



DESIGN & DRAFTING TECHNOLOGY

Associate of Applied Science Degree
Diploma
Certificate

LINCOLN AND MILFORD CAMPUSES

www.southeast.edu/DesignDraftingTechnology



Our program combines CAD and architectural design to give students options toward their career.

LINCOLN CAMPUS

COMPUTER AIDED DESIGN DRAFTING FOCUS

Computer Aided Design Drafting is communication through the use of graphic representation and creation of 3-D designs.

Types of jobs available:

- Engineering Technician
- Product Designer
- VDC Coordinator
- Revit ® Technician
- CAD Designer
- Design Engineer
- Engineering Systems Specialist

MILFORD CAMPUS

ARCHITECTURAL DESIGN FOCUS

Architectural Design is creation of construction documents for residential and commercial structures through the use of BIM (Building Information Modeling) designs.

Types of jobs available:

- Structural Engineering Technician
- Mechanical Systems Engineering Technician
- Design Technician
- Architectural CAD Technician
- Revit ® Technician
- Drafting Design Technician
- Electrical Systems Engineering Designer
- BIM Manager
- Construction Estimator
- Wood Truss Designer



Graduate Earnings

Recent graduates report an average starting wage of \$16.10 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

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Core courses for the A.A.S. degree:

Course #	Course title	Credit hrs
DDRT1120	Basic Computer Aided Drafting	3.0
DDRT1340	Strength of Materials	4.0
MATH1050 or higher		4.5
BSAD1010		4.5
	or INFO1121 Microsoft Word & PowerPoint and INFO1131 Microsoft Excel	1.5 1.5
ECON1200 or higher		4.5
ENGL1010		4.5
SPCH1110		4.5
		Credits 28.0

Architectural Design Technology Courses: (A.A.S.)

Course #	Course title	Credit hrs
DDRT1160	Materials and Methods of Light Construction	6.5
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1250	Plumbing Systems Theory and Drafting	6.5
DDRT1311	Basic Estimating	3.5
DDRT1320	Heating and Air Conditioning Systems II	6.5
DDRT1338	Residential Design and Drafting	4.5
DDRT1420	Advanced Mechanical Systems Theory & Drafting	6.5
DDRT2530	Steel Systems Design and Drafting	6.5
DDRT2541	Life Safety Code	4.5
DDRT2546	Site Planning & Surveying	3.0
DDRT2650	Fundamentals of Commercial Architecture	8.0
DDRT2660	Concrete and Wood Systems Design & Drafting	6.5
DDRT2710	Construction Law	4.5
DDRT2750	Electrical Systems Theory & Drafting Design	6.5
DDRT2820	Comprehensive Project Design & Drafting	10.0
DDRT2839	Commercial Estimating	3.5
		90.5 hours

Computer Aided Design Drafting Courses: (A.A.S.)

Course #	Course title	Credit hrs
DDRT1110	Design Drafting Concepts	3.0
DDRT1215	Architectural Concepts	3.0
DDRT1220	3-D Solid Modeling	5.0
DDRT1224	3-D Civil CAD	5.0
DDRT1310	3-D Visualization	3.0
DDRT1330	Solid Works	5.0
DDRT1400	Virtual Building Design w/Revit	4.0
DDRT1500	Advanced Virtual Building Design with/Revit	4.0
DDRT2100	Commercial Construction Materials	3.0
DDRT2110	Architectural Design	3.0
DDRT2120	Commercial Construction Process	3.0
DDRT2130	Industrial Plastics	3.0
DDRT2140	Building Utility Design	5.5
DDRT2150	Structural Steel Design with SDS/2	5.0
DDRT2180	Professional Practice -Architectural	3.0
DDRT2200	Geometric Dimensioning & Tolerancing	3.0
DDRT2210	Engineering Processes	3.0
DDRT2215	Plastics 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
DDRT2901	Cooperative Experience Drafting I	5.0
BSAD1090	Business Law I	4.5
ACFS2020	Career Development	2.5
		90.5 hours



Diplomas

Architectural Diploma Courses:

Course #	Course title	Credit hrs
DDRT1160	Materials and Methods of Light Construction	6.5
DDRT1120	Basic Computer Aided Drafting	3.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1311	Basic Estimating	3.5
DDRT2541	Life Safety Code	4.5
DDRT2546	Site Planning & Surveying	3.0
DDRT2650	Fundamentals of Commercial Architecture	8.0
DDRT2839	Commercial Estimating	3.5

Diploma Credits 35.5
General Education Courses 9.0
Total Credits 44.5

Mechanical/Electrical Diploma Courses:

Course #	Course title	Credit hrs
DDRT1160	Materials and Methods of Light Construction	6.5
DDRT1120	Basic Computer Aided Drafting	3.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1250	Plumbing Systems Theory and Drafting	6.5
DDRT1320	Heating and Air Conditioning Systems II	6.5
DDRT1420	Advanced Mechanical Systems Theory & Drafting	6.5
DDRT2750	Electrical Systems Theory and Drafting	6.5

Diploma Credits 39.0
General Education Courses 9.0
Total Credits 48.0

Residential Design Diploma Courses:

Course #	Course title	Credit hrs
DDRT1160	Materials and Methods of Light Construction	6.5
DDRT1120	Basic Computer Aided Drafting	3.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1311	Basic Estimating	3.5
DDRT1338	Residential Design and Drafting	4.5
DDRT1400	Virtual Building Design w/Revit	4.0
DDRT2541	Life Safety Code	4.5
DDRT2546	Site Planning & Surveying	3.0
DDRT2710	Construction Law	4.5
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
DDRT1160	Materials and Methods of Light Construction	6.5
DDRT1120	Basic Computer Aided Drafting	3.0
DDRT1340	Strength of Materials	4.0
DDRT1400	Virtual Building Design w/Revit	4.0
DDRT2150	Structural Steel Design with SDS/2	5.0
DDRT2530	Steel Systems Design and Drafting	6.5
DDRT2660	Concrete and Wood Systems Design & Drafting	6.5
Diploma Credits		35.5
General Education Courses		9.0
Total Credits		44.5

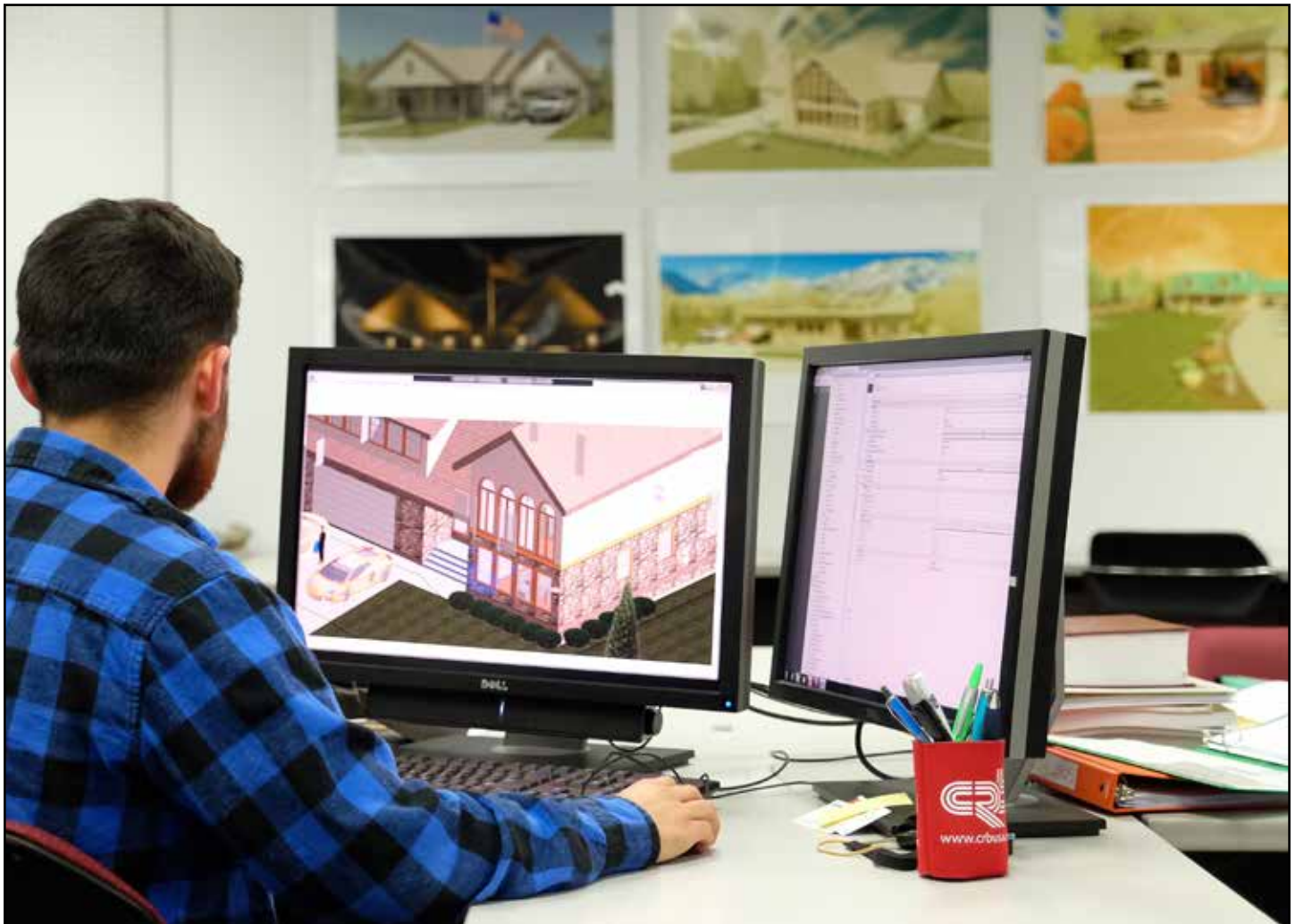
Certificates

Designing Software Certificate Courses:

Course #	Course title	Credit hrs
DDRT1220	3-D Solid Modeling	5.0
DDRT1224	3-D Civil CAD	5.0
DDRT1310	3-D Visualization	3.0
DDRT1330	Solid Works	5.0
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	5.0
Certificate Credits		36.0
General Education Courses		4.5
Total Credits		40.5

Residential Design Certificate Courses:

Course #	Course title	Credit hrs
DDRT1160	Materials and Methods of Light Construction	6.5
DDRT1120	Basic Computer Aided Drafting	3.0
DDRT1207	Heating & Air Conditioning Systems I	3.5
DDRT1311	Basic Estimating	3.5
DDRT1338	Residential Design and Drafting	4.5
Certificate Credits		21.0
General Education Courses		4.5
Total Credits		25.5





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 \$61.50 per credit hour. Out-of-state tuition rate is \$75.50 per credit hour. Student fee is \$1.50 per credit hour. Graduation fee is \$25.

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

Associate of Applied Science Degree

- Architectural Design focus (Milford) 120.0
- Computer Aided Design Drafting focus (Lincoln) 120.0

Diploma

- Mechanical/Electrical 47.5
- Architectural 45.5
- Structural 43.5
- Residential Design 47.0

Certificate

- Residential Design 25.5
- Designing Software 38.5

ARCHITECTURAL DESIGN FOCUS

Tuition & Fees	\$7,560
Books	3,352
Supplies	10
Total for Focus	\$10,922

RESIDENTIAL DESIGN DIPLOMA

Tuition & Fees	\$2,961
Books	761
Total for Diploma	\$3,722

COMPUTER AIDED DESIGN DRAFTING FOCUS

Tuition & Fees	\$7,560
Books	3,454
Supplies	240
Total for Focus	\$11,254

STRUCTURAL DIPLOMA

Tuition & Fees	\$2,741
Books	824
Total for Diploma	\$3,565

ARCHITECTURAL DIPLOMA

Tuition & Fees	\$2,867
Books	858
Total for Diploma	\$3,725

DESIGNING SOFTWARE CERTIFICATE

Tuition & Fees	\$2,426
Books	744
Total for Certificate	\$3,200

MECHANICAL/ELECTRICAL DIPLOMA

Tuition & Fees	\$2,993
Books	773
Total for Diploma	\$3,766

RESIDENTIAL DESIGN CERTIFICATE

Tuition & Fees	\$1,607
Books	342
Total for Certificate	\$1,949