

**Associate of Applied Science Degree
Diploma
Certificate**

Credit Hours Required for Graduation:
 Architectural Design Focus 67.0
 Computer Aided Design Drafting Focus 71.5

Diploma
 -Architectural 30.5
 -Mechanical/Electrical 30.0
 -Residential Design 32.5
 -Structural 31.5

Certificate
 -Designing Software 20.5
 -Residential Design 17.5



For more information contact:

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 A0715 - DDRT (09/19)

Why SCC?

Our program combines computer-aided drafting and architectural design to give students options toward their career. In the Architectural Design Focus, students study design and construction methods used in residential and commercial buildings. In the Computer Aided Design Drafting Focus, students utilize state-of-the-art tools and technology to perform multiple methods and techniques in various areas of design.

Architectural Design Focus

This focus prepares students for employment in a variety of exciting and rewarding areas of the architectural and engineering fields. Students enter the workforce as Structural Engineering Technicians, Mechanical Systems Engineering Technicians, Architectural Design Technicians, and Electrical Systems Engineering Technicians, as well as Construction Estimators.

Computer Aided Design Drafting Focus

This focus takes a holistic approach to learning design techniques. Within this focus, students enter the workforce as Engineering Technicians, Product Designers, Revit Technician, BIM/VDC Coordinator, and CAD Designer, as well as a Design Engineer.



SCC's Design & Drafting Technology program provides graduates with the necessary skills to be marketable in many facets of the Architecture/Engineering/Construction design industry. The options seem to be limitless as demand for these skills is high and options for employers are low. The value of a degree from SCC, combined with experience you will receive during your cooperative education, will create a path to success for students. SCC also works closely with an advisory board of industry professionals in order to improve the curriculum and adapt to construction industry trends and needs.

- Brett McCarthy, BIM Manager
 Alvine Engineering



Top Career Options

- Architectural Drafter
- CAD Drafter
- Civil BIM Technician
- Design Technician III
- Electrical Engineering Drafter



Graduate Earnings

Recent graduates report an average starting wage of \$17.40 per hour.



2019-2020 Tuition/Fee Rate Per Credit Hour	
Nebraska Resident	\$108
Out-of-state tuition/fee rate	\$129
Estimated Expenses	
Tuition/Fees	\$ 7722
Books	3352
Special Fees	
Tools/Supplies	250
Total:	\$11,324

General Education Requirements

SCC Core General Education Learning Outcomes (GELOs)

See the General Education pages for a complete list.

GELO #1:	Oral Communications	3.0
GELO #2:	Written Communications	3.0
GELO #5:	Analytical, Quantitative and Scientific Reasoning	3.0
	MATH1050 (or higher) (Recommended)	

Complete two additional classes from the three areas below; no two classes from the same area 6.0

GELO #3:	Critical Thinking & Problem Solving
GELO #4:	Global Awareness and Citizenship
GELO #6:	Career and Life Skills

Total General Education 15.0 Credit Hours

Core Design & Drafting

Technology Courses

The core Design & Drafting Technology courses provide a base line of common technical knowledge and skills for students to succeed in a wide variety of career fields.

Course #	Course title	Credit hrs.
DDRT1120	Basic Computer Aided Drafting	2.0
DDRT1400	Virtual Building Design with Revit Architecture	2.0
DDRT1230	Architectural Print Reading	2.0
DDRT1310	3-D Visualization	2.0
DDRT1340	Strengths of Materials	2.5
DDRT1350	Estimating for Light Construction	2.5
DDRT2540	Building Safety & Design	2.0
DDRT1170	Light Construction Materials & Methods	3.0
DDRT2901	Cooperative Experience Drafting I	3.0
		21.0 hours

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 & Drafting	3.0
DDRT1207	Heating & Air Conditioning Systems I	2.0
DDRT1320	Heating & Air Conditioning Systems II	3.0
DDRT1420	Advanced Mechanical Systems Theory & Drafting	3.0
DDRT2750	Electrical Systems Theory & Design	3.0
DDRT2839	Commercial Estimating	2.0
DDRT2530	Steel Systems Design & Drafting	3.0
DDRT2546	Site Planning & Surveying	3.0
DDRT2660	Concrete & Wood Systems Design & Drafting	3.0
DDRT1338	Residential Design & Drafting	3.0
DDRT2650	Fundamentals of Commercial Architecture	3.0
		31.0 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	Industrial Print Reading	2.0
DDRT1220	Inventor	2.0
DDRT1224	3-D Civil CAD	2.0
DDRT1330	Solid Works	2.0
DDRT1500	Advanced Virtual Building Design w/Revit	2.5
DDRT2110	Architectural Design	2.0
DDRT2150	Structural Steel Design with SDS/2	2.0
DDRT2130	Industrial Plastics	2.0
DDRT2180	Professional Practice-Architectural	2.0
DDRT2200	Geometric Dimensioning & Tolerancing	2.0
DDRT2210	Engineering Processes	2.0
DDRT2215	Plastic Part Design	2.0
DDRT2220	Flat Pattern Design	2.0
DDRT2230	Design Concepts	2.0
DDRT2240	Consumer Product Design	2.0
DDRT2260	Jigs & Fixture Design	2.0
DDRT2140	Building Utility Design	3.0
		35.5 hours



Diplomas

Architectural Diploma Courses

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	3.0
DDRT1120	Basic Computer Aided Drafting	2.0
DDRT1207	Heating & Air Conditioning Systems I	2.0
DDRT1230	Architectural Print Reading	2.0
DDRT1350	Estimating for Light Construction	2.5
DDRT2540	Building Safety & Design	2.0
DDRT2546	Site Planning & Surveying	3.0
DDRT2650	Fundamentals of Commercial Architecture	3.0
DDRT2839	Commercial Estimating	2.0
DDRT Elective (minimum)		3.0
		Diploma Credits 24.5
		General Education Courses 6.0
		Total Credits 30.5

Mechanical/Electrical Diploma

Courses

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	3.0
DDRT1120	Basic Computer Aided Drafting	2.0
DDRT1207	Heating & Air Conditioning Systems I	2.0
DDRT1230	Architectural Print Reading	2.0
DDRT1250	Plumbing Systems Theory and Drafting	3.0
DDRT1320	Heating and Air Conditioning Systems II	3.0
DDRT1420	Advanced Mechanical Systems Theory & Drafting	3.0
DDRT2750	Electrical Systems Theory and Design	3.0
DDRT Elective (minimum)		3.0
		Diploma Credits 24.0
		General Education Courses 6.0
		Total Credits 30.0

Residential Design Diploma

Courses

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	3.0
DDRT1120	Basic Computer Aided Drafting	2.0
DDRT1207	Heating & Air Conditioning Systems I	2.0
DDRT1230	Architectural Print Reading	2.0
DDRT1310	3-D Visualization	2.0
DDRT1350	Estimating for Light Construction	2.5
DDRT1338	Residential Design and Drafting	3.0
DDRT1400	Virtual Building Design with Revit Architecture	2.0
DDRT2540	Building Safety & Design	2.0
DDRT2546	Site Planning & Surveying	3.0
DDRT Elective (minimum)		3.0
		Diploma Credits 26.5
		General Education Courses 6.0
		Total Credits 32.5

Structural Diploma Courses

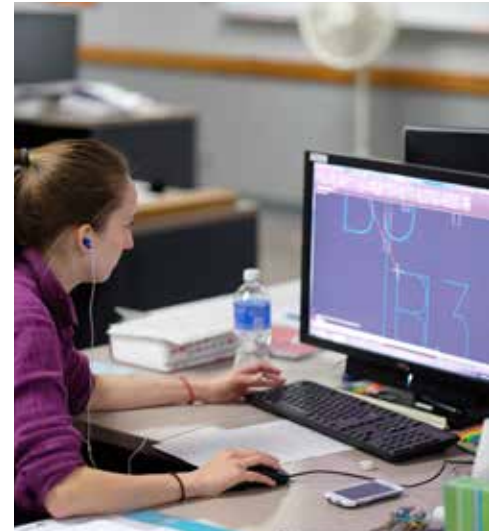
Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	3.0
DDRT1120	Basic Computer Aided Drafting	2.0
DDRT1310	3-D Visualization	2.0
DDRT1340	Strength of Materials	2.5
DDRT1400	Virtual Building Design with Revit Architecture	2.0
DDRT2150	Structural Steel Design with SDS/2	2.0
DDRT2530	Steel Systems Design and Drafting	3.0
DDRT2660	Concrete and Wood Systems Design & Drafting	3.0
DDRT Elective (minimum)		3.0
		Diploma Credits 25.5
		General Education Courses 6.0
		Total Credits 31.5

Certificates

Designing Software Certificate

Courses

Course #	Course title	Credit hrs.
DDRT1220	Inventor	2.0
DDRT1224	3-D Civil CAD	2.0
DDRT1310	3-D Visualization	2.0
DDRT1330	Solid Works	2.0
DDRT1400	Virtual Building Design with Revit Architecture	2.0
DDRT1500	Advanced Virtual Building Design w/Revit	2.5
DDRT2140	Building Utility Design	3.0
DDRT2150	Structural Design with SDS/2	2.0
		Certificate Credits 17.5
		General Education Courses 3.0
		Total Credits 20.5



Residential Design Certificate

Courses

Course #	Course title	Credit hrs.
DDRT1170	Light Construction Materials & Methods	3.0
DDRT1120	Basic Computer Aided Drafting	2.0
DDRT1207	Heating & Air Conditioning Systems I	2.0
DDRT1230	Architectural Print Reading	2.0
DDRT1350	Estimating for Light Construction	2.5
DDRT1338	Residential Design and Drafting	3.0
		Certificate Credits 14.5
		General Education Courses 3.0
		Total Credits 17.5

