



Associate of Applied Science Degree

Credit Hours Required for Graduation:
Associate of Applied Science Degree: 74.0



For more information contact:

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Manufacturing engineering technologists like to make things. They also like to make them better, faster and more affordable. They are "hands-on" people who enjoy being a part of the design process. Do you have an analytical mind and good math skills? This program prepares students for careers in product design, operations management, lean manufacturing engineering, product research and development, quality control and assurance, and tooling design.



"I was drawn to SCC because of the hands-on training and amazing reputation.

Nearly all of the instructors had actually worked in the industry before coming to SCC to teach, which gave them a clear perspective of what information they needed to be teaching. The small student-to-instructor ratio enabled the instructor to help out one-on-one or present the information in different ways for others to better understand.



When you attend such a prestigious college, opportunities for internships and employment come from everywhere. Our trades are in high demand all over the country, and SCC has many connections. During my last two terms of college, I was presented a full-time job offer well before my schooling was finished.

I graduated on a Friday and started working at ABE the following Monday. I am now the Lead Installation Technician and travel all over the U.S. and world. I stepped into my dream job without even knowing it! Without SCC, the chances of me being qualified or even made aware of this job opportunity would have been slim to none. I appreciate what this school has done for me educationally and personally. You never know where or when opportunities can arise. With the education you are receiving, you have already made the first step toward success and possibly the first step into achieving your dream."

-Michael Lorens, 2014 graduate
Lead Installation Technician, American Beer Equipment



Top Career Options

- Product Designer
- Robot Programmer
- Engineering Technician
- Automation Engineer
- Facilities Layout Management



Graduate Earnings

Recent graduates report an average starting wage of \$20.15 per hour.



2019-2020 Tuition/Fee Rate Per Credit Hour	
Nebraska Resident	\$108
Out-of-state tuition/fee rate	\$129
Estimated Expenses	
Tuition/Fees	\$ 7992
Books	3420
Special Fees	0
Tools/Supplies	225
Total:	\$11,637

Students use a three-dimensional rapid prototype printer to print a variety of design and prototype projects. Students are eligible in their third semester to take the Certified Manufacturing Technologist exam offered by the Society of Manufacturing Engineers (www.sme.org).

SCC has an active student chapter, S218, of the Society of Manufacturing Engineers which helps students create contacts with local industries and potential employers. Students are also able to participate in SkillsUSA competitions.

General Education Requirements

Contact your program advisor to select general education courses from each category, which will meet your program's graduation requirements. See the General Education pages for a complete list.

(One class from each area below).

GEL0 #1: Oral Communications	3.0
SPCH1110 Public Speaking (Recommended)	
GEL0 #2: Written Communications	3.0
ENGL1110 Business Communications (Recommended)	
GEL0 #3: Critical Thinking & Problem Solving	3.0-4.0
PHYS1017 or PHYS1150	
GEL0 #5: Analytical, Quantitative, and Scientific Reasoning	3.0
MATH1050 Thinking Mathematically (or higher)	
GEL0 #6: Career and Life Skills	3.0
BSAD1010 Microsoft Applications I	
	15.0-16.0 hours

To complete the A.A.S. degree students also are required to take:

ACFS2020 Career Development	1.0
	1.0 hour

Students wishing to take advanced level or alternate courses to meet the College's General Education Requirements should contact their program advisor to ensure that the course/s meet the program requirements.

Please note: A grade of "C" or higher is required in all prerequisite courses.

Manufacturing Engineering Technology A.A.S. Degree Requirements

Course #	Course title	Credit hrs
MFGT1125	Materials of Industry	3.0
MFGT1144	Engineering Drawing & Design I	3.0
MACH1241	Machinery's Handbook	3.0
MFGT1250	Engineering Drawing & Design II	2.5
MFGT1333	Fluid Power for Manufacturing	2.0
MFGT1350	AutoCAD for Manufacturing	2.0
MFGT1354	Part Design for Blanking Dies	2.0
MFGT1362	Lean Facilities Planning	2.0
MFGT1413	Electrical Fundamentals for Manufacturing	3.0
MFGT1421	Manufacturing Processes I	3.0
MFGT1429	CNC for Automation	2.0
MACH1456	Manufacturing Processes II	2.5
MFGT2549	Quality Assurance & Statistical Process Control (SPC)	3.0
MFGT2559	Geometric Dimensioning & Tolerancing	2.0
MFGT2566	Tooling Design	3.0
MFGT2620	Programmable Logic Controllers in Work Cell Design	2.0
MFGT2625	Robotics & Industrial Automation	2.0
MFGT2635	Plastics: Design & Engineering	3.0
MFGT2643	Engineering Statics & Strengths of Materials	3.0
MFGT2668	Product & Machine Design	3.0
MFGT2670	Autodesk Inventor	3.0
MFGT2672	Mechanisms	2.0
MFGT2680	Solid Works	2.0
		58.0 hours

Students who earn an Associate of Applied Science degree in Manufacturing Engineering Technology at SCC will be able to transfer credits to Missouri Western State University and earn a Bachelor of Science degree in Manufacturing Engineering Technology. Students could also transfer credit hours to South Dakota State University and earn a Bachelor of Science degree in Operations Management from SDSU.

