



## Mechanical Engineering Technology Associate of Applied Science (A.A.S.)

2018–2019

### DESCRIPTION:

The Mechanical Engineering Technology A.A.S. degree program prepares students to enter this growing profession where the pool of applicants does not meet the demand. Individuals who are mechanically inclined and like to solve problems can have a satisfying career in the field of engineering that creates machines to work for people. The program presents an inside look at the manufacturing process, as well as highlights skills with drafting, computers, and troubleshooting. Coursework includes an introduction to manufacturing technology, hydraulics, robotics, materials science, and computer aided drafting and manufacturing. Engineering technology teaches students how to organize thoughts and approach problems—processes which are not only critical to their work, but also beneficial in everyday life. For more information, see [csc.edu/academics/departments/engineering-technologies/mechanical-engineering.shtml](http://csc.edu/academics/departments/engineering-technologies/mechanical-engineering.shtml).

### ADMISSION REQUIREMENTS:

This is a non-selective, open-admission program.

### ONGOING REQUIREMENTS:

Students must maintain the minimum overall GPA required by the College.

### OPPORTUNITIES FOR GRADUATES:

#### Career:

Graduates are qualified to assist engineers in the industrial, consulting, scientific research and consulting communities. Mechanical engineering skills can take graduates anywhere from designing stronger yet lighter helmets for the NFL to creating wheelchairs that are more maneuverable.

#### Transfer:

Student successfully completing the A.A.S in Mechanical Engineering Technology can transfer to many different four-year institutions that offer a bachelor's degree in the Engineering Technology field. Formal articulation agreements with Miami University of Ohio are in place. Students have also successfully transferred to Bowling Green University, Ohio University, Otterbein University, and Ohio State University, although not all Mech classes will match with OSU's Engineering curriculum. Calculus based math and physic courses are recommended for students planning to complete a four year degree.

**DEGREE REQUIREMENTS (MECHANICAL ENGINEERING TECHNOLOGY A.A.S.):****FIRST SEMESTER**

Course	Term	Credits	Milestones/Progress Check
MECH 1150 Manufacturing Materials & Processes	AU/SU	3	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
ENGT 1115 Engineering Graphics	AU/SP/SU	3	
ITST 1101 Industrial Applications & Software	AU/SP/SU	2	
MATH 1113 Technical Mathematics	AU/SP/SU	5	
<b>Semester Credits</b>		<b>14</b>	

**SECOND SEMESTER**

Course	Term	Credits	Milestones/Progress Check
MECH 1130 Statics	AU/SP	3	
MECH 1240 Machine Tools	AU/SP/SU	3	
MECH 2215 Parametric CAD	AU/SP/SU	3	
ENGL 1100 Composition I	AU/SP/SU	3	
PHYS 1200 Algebra Based Physics I	AU/SP/SU	5	
<b>Semester Credits</b>		<b>17</b>	

**THIRD SEMESTER**

Course	Term	Credits	Milestones/Progress Check
MECH 1145 CAD I	AU/SP/SU	3	
MECH 2242 Strength of Materials	AU/SP	3	
ENGT 2260 Basic Mechanisms and Drives	AU/SP/SU	4	
COMM 1105 Oral Communications or COMM 1110 Small Group Communications	AU/SP/SU	3	
Basic Elective	AU/SP/SU	2	
SBS (select from approved GE SBS list)	AU/SP/SU	3	
<b>Semester Credits</b>		<b>18</b>	

**FOURTH SEMESTER**

Course	Term	Credits	Milestones/Progress Check
MECH 2243 Robotics	SP/SU	2	
MECH 2253 Computer Numerical Control	SP	2	
MECH 2270 Engineering Statistics	SP/SU	3	
MECH 2299 Machine Design/CAM	SP	3	
COMM 2204 Technical Writing	AU/SP/SU	3	
HUM Elective (select from approved GE-HUM list)	AU/SP/SU	3	
<b>Semester Credits</b>		<b>16</b>	
<b>Total</b>		<b>65</b>	

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester  
 Requirements subject to change.