Effective: May 2013 **Last Updated: 7/1/14**

College of Applied Science and Technology
MECHANICAL ENGINEERING TECHNOLOGY 292001AAS

Associate of Applied Science Degree
www.uakron.edu/summitcollege/engineering_tech/mechanical-engineering-tech/
Accredited by the Technology Accreditation Commission of ABET, http://www.abet.org

The following information has official approval of the **College of Applied Science & Technology**, but is intended only as a guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.*

Italicized courses fulfill General Education requirements. Unless a course is specified, refer to the General Education guide at http://www.uakron.edu/advising/docs/General_Education_Guide.pdf

1st Year	**Fall Semester**	Credit Hours	Prerequisites
2020:121 3300:111	*English* ***-OR-*** *English Composition I*	3	Placement by Advisor Placement by Advisor
2920:100	Survey of Mechanical Eng. Tech (Note a.)	2	
2030:153	*Technical Mathematics III*	2	2030:152 or equivalent with a grade of C- or better
2820:161	*Tech. Physics: Mech. I (Sch. Lab)*	2	2030:153 co-requisite
2820:162	*Tech. Physics: Mech. II (Sch. Lab)*	2	2820:161 prerequisite, 2030:153 co-requisite
2420:263 7600:105 7600:106	*Professional Communications and Presentations* ***-OR-*** *Introduction to Public Speaking* ***-OR-*** *Effective Oral Communications*	3	
2940:121	Technical Drawing I (Sch. Lab)	3	
	Elective: Any	**1**	
Total		**18**	

1st Year	**Spring Semester**		
2030:154	Technical Mathematics IV	3	2030:153 or equivalent with grade of C- or better
2820:163	*Technical Physics: Elect. & Magn. (Sch. Lab)*	2	2820:161, co-requisite 2030:153
2820:164	*Technical Physics: Heat and Light (Sch. Lab)*	2	2820:161, 2030:153
2820:131	Software Appl. for Technology. (Sch. Lab)	1	2030:151
2020:222 3300:112	*Technical Report Writing* ***-OR-*** *English Composition II*	3	2020:121 or equivalent 3300:111 or equivalent
2940:210	Computer Aided Drawing I (Sch. Lab)	3	
2990:125	Statics	3	2820:162, 2030:153
	Physical Education/Wellness Requirement	1	
Total		**18**	

2nd Year	**Fall Semester**		
2920:101	Intro to Mechanical Design (Sch. Lab) (Note a.)	3	2940:121 prerequisite, 2030:154 co-requisite
2030:255	Technical Calculus I	3	2030:154 or equivalent with grade of C- or better
2870:348	CNC Programming I	3	2030:154; 2940:121 or permission
2920:243	Kinematics (Note a.)	3	2990:125 prerequisite, 2920:101 co-requisite
2920:251	Fluid Power (Note a.)	2	2820:162, 2820:164
2990:225	Strength of Materials	3	2990:125
Total		**17**	

2nd Year	Spring Semester		
2040:240	*Human Relations*	3	
2040:242 ***or*** *2040:247*	*American Urban Society* ***-OR-*** *Survey of Basic Economics*	3	
2920:245	Mechanical Design II (Sch. Lab) (Note b.)	5	2940:210, 2990:225 prerequisite, 2920:142, 2920:243 co-requisites
2920:249	Applied Thermal Energy I (Note b.)	2	2030:255; 2820:164
2920:252	Thermo-Fluids Lab (Note b.)	1	2920:251; 2920:249 co-requisite
2920:142	Intro to Material Tech (Sch. Lab) (Note b.)	3	
Total		**17**	

	Total Credits for Associate Degree	**70**	

POLICY ALERT: By the end of your first 48 credit hours attempted, you must have completed your REQUIRED General Education English, Math, and Communications (Speech) requirements.

YOU MUST HAVE A MINIMUM CUMULATIVE GPA OF 2.0 TO GRADUATE WITH THIS DEGREE

NOTES
Note a. Traditionally Fall only (See Program Contact)
Note b. Traditionally Spring only (See Program Contact)

CONTACT INFORMATION
Program Director, Professor Roland Arter, Schrank Hall South 123E, 330-972-6784 or arter@uakron.edu

PROGRAM INFORMATION
Mechanical Engineering Technology is concerned with the design of products and the machines required to manufacture them. Mechanical technicians are needed in all industries, from steelmaking to consumer products such as tires, cars, and home appliances. Mechanical technicians work along with engineers in design, testing, manufacturing, and servicing of the mechanical components and systems found everywhere in industry. The associate degree holder is well qualified to begin working in the various areas of mechanical technology. To guarantee proper sequence and completion of all requirements for graduation, scheduling for the second year of this program should be done through the College of Applied Science & Technology Advising Office, Polsky 301, 330-972-7220.

CAREER INFORMATION
Junior or Assistant Designer – Designs machine elements and/or systems.
Engineering Aid - Assists the mechanical engineer, a good beginning for the inexperienced graduate.
Laboratory Technician – Primarily responsible for evaluation of product or process diagnosis. May do field testing (tires, cars, etc.). Specifying materials from the design and processing standpoints.
Customer Service Technician – Installs and maintains equipment on site. May also serve as sales representative in recommending a machine for a particular application.
Plant Engineer – Establishes maintenance schedules and applies tool and machine design production process.

Co-op is available on an optional basis in the academic program. To obtain addition information on program benefits, eligibility requirements, or to apply for the program, contact the Career Center at 330-972-7747 no later than the beginning of the second semester of school.

A student is encouraged to check with his/her major department and with the Career Center regarding employment opportunities in the field.

For additional information visit the Bureau of Labor Statistics at www.bls.gov or the Career Center at the Student Union, room 211 http://www.uakron.edu/career.

BACHELOR DEGREE PROGRAMS

Upon completion of the Mechanical Engineering Technology Associate of Applied Science Degree, a student may proceed to the Mechanical Engineering Technology Bachelor of Science Degree. Please refer to the Mechanical Engineering Technology Bachelor of Science Degree Curriculum Guide for further information.

An additional degree option is to proceed to the Bachelor of Organization Supervision Degree.

TRANSFER
A student can complete the transfer process by meeting with an Academic Advisor in the College in which they reside.

(Thorman, Lukach)