Effective: Fall 2012 **Last Updated: 7/1/14**

College of Applied Science and Technology
MECHANICAL ENGINEERING TECHNOLOGY
292104BS

Bachelor of Science Degree
http://www.uakron.edu/dotAsset/1817479.pdf
Accredited by the Technology Accreditation Commission of ABET, http://www.abet.org

Course work from an accredited institution in Mechanical Engineering Technology or in a related program is a requirement to pursue the Mechanical Engineering Technology Bachelor of Science Degree. An Associate of Applied Science in Mechanical Engineering Technology is required prior to completing the baccalaureate. Please refer to the Mechanical Engineering Technology, Associate of Applied Science Curriculum Guide for further information.

The following is intended only as a guide to be used in conjunction with your adviser. Official degree requirements are established at the time of transfer and admission to the **College of Applied Science & Technology**. *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.

3rd Year	**Fall Semester**	Credits	Prerequisites
2030:356	Technical Calculus II	3	2030:255 or equivalent with grade of C- or placement by Advisor
2820:310	Programming for Technologists (Sch. Lab)	2	2030:255, 2820:131
2820:111	*Introductory Chemistry (Sch. Lab)* (Note a.)	3	2030:152
2860:370	Survey of Electronics I (Sch. Lab) (Note a.)	3	2820:163
2920:344	Dynamics (Note a.)	3	2030:255, 2920:243, 2990:125
	Technical Elective (Note c.)	3	
Total		**17**	

3rd Year	**Spring Semester**		
2820:112	Introductory & Analytical Chemistry (Note b.)	3	2820:111
2860:371	Survey of Electronics II (Sch. Lab) (Note b.)	3	2860:370
	-OR-		
2860:242	Machinery and Controls (Note b.)		2860:120, and 121 or 370 (previously 270)
2920:346	Mechanical Design III (Sch. Lab) (Note b.)	4	2920:344, 2920:245, 2820:310
2920:347	Production Machinery & Processes (Note b.)	3	2920:245; 2030:255
	Area Studies/Cultural Diversity Requirement	2	2020:121 or equivalent
	Technical Elective (Note c.)	2	
Total		**17**	

4th Year	**Fall Semester**		
2920:405	Ind. Machine Control (Sch. Lab) (**Note a.)**	3	2860:370 (formerly 2860:270)
2920:310	Economics of Technology	3	64 credits or permission
2920:365	Applied Thermal Energy II (Note a.)	3	2920:249, 2920:251, 2030:255
2920:370	Plastics Design & Processing (Note a.)	3	2820:111 or higher
2920:490	Senior MET Seminar (Note a.)	1	Senior standing
3400:210	*Humanities in the Western Tradition*	4	32 credits & 3300:112 or equivalent
Total		**17**	

4th Year	**Spring Semester**		
2920:402	Mechanical Projects (Note b.)	1	Senior standing
2880:241	Intro. to Quality Assurance (Sch. Lab)	3	2030:152, 2880:100 or permission
2920:470	Plastics Processing & Testing (Note b.)	2	2920:370 or permission
	Area Studies/Cultural Diversity Requirement	2	2020:121 or equivalent
	Technical Elective (Note c.)	3	
	Humanities Requirement	6	3400:210 or 3400:221
Total		**17**	

	Third and Fourth Year Credits	**68**	**Total Credits for BS Degree - 138**

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 GPA OF 2.0 TO GRADUATE WITH THIS DEGREE

NOTES

Note a. Traditionally Fall course (See Program Contact)
Note b. Traditionally Spring course (See Program Contact)
Note c. Mechanical Engineering Technology Approved Technical Electives: availability dependent on enrollment demands and classroom availability

2920:290	Special Topics: Mechanical Engineering Technology	1-2	Department permission
2920:498	Independent Study in Mechanical Engineering Technology	1-4	Department permission
2030:345	Technical Data Analysis	2	2030:154 or equivalent with a grade of C- or better, or placement test
2870:301	Computer Control of Automated Systems	3	
2870:311	Facilities Planning	3	2940:180 or 2940:210 or permission
2870:332	Management of Technology Based Operations	3	
2870:441	Advanced Quality Practices	3	2880:241 or permission.
2870:448	CNC Programming II	3	2870:348
2880:130	Work Measurement & Cost Estimating	3	2880:100
2880:201	Robotics & Automated Manufacturing	3	2880:100 or permission
2880:211	Computerized Manufacturing Control	3	2880:100
2880:232	Labor Management Relations	3	2880:100
2940:122	Technical Drawing II	3	2940:121, 210
2940:170	Surveying Drafting	3	Co-requisite: 2030:152 or permission
2940:211	Computer Aided Drawing II	3	2940:210
2940:230	Mechanical Systems Drafting	3	2940:122
2940:245	Structural Drafting	2	2940:121, 210 or equivalent
2980:101	Basic Surveying I	2	Co-requisites: 2030:152
2990:462	Mechanical Service Systems	3	
2990:463	Electrical Service Systems	3	
3460:126	Introduction to Visual Basic Programming	3	Completion of 3450:100 with a grade of C- or better or placement
3460:208	Introduction to C++ Programming	3	

CONTACT INFORMATION

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

CAREER OPPORTUNITIES

The bachelor degree holder, along with maturity and experience gained on the job as a technologist, may rise to designer, head of test laboratory, service manager, tool room supervisor, production foreman, plant maintenance supervisor, and with additional education and specialized training, he/she may reach positions of middle management responsibility. He/she is the liaison between the engineer and shop.

Other opportunities exist in cost estimation, purchasing, power generation, and almost any area that requires a liaison that speaks and understands the language of technology.

Advanced technologies, coupled with the need to update and improve manufacturing facilities and product design, will fuel the demand of well-trained professionals in this field.

Placement or Optional Cooperative Education

Co-op work experiences are available on an optional basis in this academic program. To obtain additional information contact the Career Center regarding these opportunities.

For additional information regarding career opportunities in the Electronic Engineering Technology field, please visit the Bureau of Labor Statistics at www.bls.gov or the Career Center at the Student Union, room 211, (330-972-7747) http://www.uakron.edu/career

TRANSFER

A student can complete the transfer process by meeting with an Academic Advisor in the College in which they reside. Thorman/Lukach)