THE UNIVERSITY OF AKRON
AKRON OHIO
SUMMIT COLLEGE

MECHANICAL ENGINEERING TECHNOLOGY

2920: Associate of Applied Science Degree

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - Telephone (410) 347-7700.

FIRST YEAR

Fall Semester		**Credit Hours**	**Prerequisites/Corequisites**
2020:121	English **OR**		Placement Test
3300:111	English Composition I	4	
2920:100	Survey of Mechanical Eng. Tech.	2	
2030:153	Technical Mathematics III	2	2030:152 or equiv with grade of C- or better or placement test
2820:161	Technical Physics: Mechanics I (Sch. Lab)	2	2030:153 Coreq
2820:162	Technical Physics: Mechanics II (Sch. Lab)	2	2820:161; 2030:153
7600:105	Intro. to Public Speaking **OR**		
7600:106	Effective Oral Communication **OR**		
2540:263	Professional Communications and Presentations	3	
2940:121	Technical Drawing I (Sch. Lab)	3	
		18	
Spring Semester			
2030:154	Technical Mathematics IV	3	2030:153 or equiv with a grade of C- or better or placement test
2820:131	Software Appl. for Technology. (Sch. Lab)	1	2030:151
2820:163	Technical Physics: Elect. & Magn. (Sch. Lab)	2	2820:161; 2030:153
2820:164	Technical Physics: Heat and Light (Sch. Lab)	2	2820:161; 2030:153
2020:222	Technical Report Writing **OR**		3300:111; 2020:121 or equiv.
3300:112	English Composition II	3	3300:111; 2020:121 or equiv.
2940:210	Computer Aided Drawing I (Sch. Lab)	3	
2990:125	Statics	3	2820:162 & 2030:153
5540:xxx	Physical Education	1	
		18	

SECOND YEAR

Fall Semester			
2920:101	Intro. to Mechanical Design (Sch. Lab)	3	2940:121Prereq; 2030:154 Coreq
2030:255	Technical Calculus I	3	2030:154 or equiv with grade of C- or better or placement test
2870:348	CNC Programming I	3	2030:154; 2940:121 or Perm.
2920:243	Kinematics	3	2920:101 Coreq; 2990:125
2920:251	Fluid Power	2	2820:162; 2820:164
2990:225	Strength of Materials	3	2990:125
		17	
Spring Semester			
2040:240	Human Relations	3	
2040:242	American Urban Society **OR**		
2040:247	Survey of Basic Economics	3	
2920:245	Mechanical Design II (Sch. Lab)	5	2920:142 Coreq; 2940:210; 2990:225 2920:243 Coreq
2920:249	Applied Thermal Energy I	2	2030:255; 2820:164
2920:252	Thermo-Fluids Lab	1	2920:251; 2920:249 Coreq
2920:142	Introduction to Material Tech (Sch. Lab)	3	
		17	

TOTAL CREDITS = 70

Careers and Opportunities

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, and typical opportunities include the following:

Junior or Assistant Designer - Designing machine elements and/or systems.

Engineering Aide - 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 Engineering - Establishing maintenance schedules and applying tool and machine design to production process.

Draftsman - Junior or Senior - Work toward heading drafting room.

With maturity and the experience gained on the job, and specializing in one of the above areas, the technician may rise to designer, head of testing 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 who speaks and understands the language of technology.

Second Year

Scheduling for the second year of this program should be done with the Summit College Advising Office, Polsky 301, 330-972-7220, to guarantee proper sequence and completion of all requirements for graduation.

Placement

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

Cooperative Education

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