

**THE UNIVERSITY OF AKRON
AKRON OHIO
SUMMIT COLLEGE**

**MANUFACTURING ENGINEERING TECHNOLOGY, INDUSTRIAL SUPERVISION OPTION
2880:01: Associate in Applied Science Degree**

FIRST YEAR**Fall Semester**

		<u>Credit Hours</u>	<u>Prerequisites</u>
5540:	Physical Education	1	
2020:121	English	4	Placement Test
2030:151	Technical Mathematics I	2	Placement Test
2030:152	Technical Mathematics II	2	2030:151 with grade of C- or better or placement test
2880:100	Basic Principles of Manufacturing Mgmt.	4	
2880:110	Manufacturing Processes	<u>3</u>	
		16	

Spring Semester

7600:106	Effective Oral Communication	3	
2040:247	Survey of Basic Economics	3	
2420:202	Elements of Human Resource Mgt.	3	
2420:211	Basic Accounting I	3	
2880:130	Work Measurement & Cost Estimating	3	2880:100
2020:222	Technical Report Writing	<u>3</u>	2020:121
		18	

SECOND YEAR**Fall Semester**

2880:151	Industrial Safety & Environmental Protection	2	
2420:103	Essentials of Management Technology	3	
2420:212	Basic Accounting II	3	2420:211
2820:131	Software Applications for Tech. (Sch. Lab)	1	2030:151
2880:211	Computerized Manufacturing Control	3	2880:100
2880:232	Labor Management Relations	<u>3</u>	2880:100
		15	

Spring Semester

	General Elective	4	
2040:251	Human Behavior at Work	3	
2420:280	Essentials of Business Law	3	
2880:201	Robotics & Automated Mftg. (Sch. Lab)	3	2880:100 or Perm.
2880:241	Introduction to Quality Assurance (Sch. Lab)	3	2880:100; 2030:152
	Technical Elective	<u>3</u>	
		19	

TOTAL CREDITS = 68

<u>General Electives</u>		<u>Credits</u>
2040:240	Human Relations	3
2040:241	Technology and Human Values	2
2040:242	American Urban Society	3
2040:254	The Black American	2

Technical Electives

2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2820:164	Technical Physics: Heat & Light	2
3450:138	Mathematics of Finance	1

Associate Degree in Manufacturing Engineering Technology

In General

Manufacturing Engineering Technology is concerned with the analysis, design, and management of all the resources, facilities, and people involved in manufacturing processes. Manufacturing Engineering Technology requires a background in basic technical subjects, management techniques, work measurement, safety procedures, plant layout, quality control, maintenance, production control, economics, and computer applications such as CAD, CNC, and CAM.

Career Opportunities

A graduate of this program finds employment in manufacturing supervision and control. Duties involve the design modification, installation, and operation of integrated systems of people, materials, machines, and methods used to produce a product at a profit.

Specific career opportunities may be found in the following functional areas:

- Manufacturing Supervision
- Methods - production, planning, methods and engineering
- Work Measurements - time study, motion study, and standards
- Wage Payment - wage incentives, job evaluation
- Controls - production control, quality control, inventory control
- Plant Facilities and Design - plant layout, material handling, product design, storage facilities, maintenance of plant equipment
- Industrial Relations - management-union relations, workers' compensation
- Purchasing
- Safety and Industrial Hygiene
- Estimating
- Profit and Cost Analysis
- Quality Assurance

Second Year

A student should consult an adviser in the Summit College advising office, Polsky Building, Room 192, 330-972-7220, any time questions arise regarding scheduling of courses or requirements for graduation.

Placement

A student is encouraged to check with his/her major department and with the Center for Career Management, 330-972-7747, 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 Center for Career Management.