

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

**DRAFTING & COMPUTER DRAFTING TECHNOLOGY
2940: Associate of Applied Science Degree**

FIRST YEAR**Fall Semester**

	<u>Credit Hours</u>	<u>Prerequisites</u>
2020:121 English	4	Placement by advisor
2030:151 Technical Mathematics I	2	Placement test
2030:152 Technical Mathematics II better or placement test	2	2030:151 with a grade of C- or better or placement test
2880:110 Manufacturing Processes	3	
2940:121 Technical Drawing I (Sch. Lab)	3	
2940:210 Computer Aided Drawing I(Sch. Lab)	3	
2990:131 Building Construction	<u>2</u>	
	19	

Spring Semester

2020:222 Technical Report Writing	3	2020:121 or 1100:111
2820:131 Software Applications for Tech. (Sch. Lab)	1	2030:151
2940:122 Technical Drawing II (Sch. Lab)	3	2940:121 & 2940:210
2940:150 Drafting Design Problems	2	2030:152
2940:211 Computer Aided Drawing II (Sch. Lab)	3	2940:210
2940:250 Architectural Drafting (Sch. Lab)	3	2940:121
7600:106 Effective Oral Communication	<u>3</u>	
	18	

SECOND YEAR**Fall Semester**

2040:240 Human Relations	3	
2820:161 Technical Physics: Mech I (Sch. Lab)	2	2030:152 Coreq.
2870:348 CNC Programming (Sch. Lab)	3	2030:154; 2940:121 or Perm.
2940:170 Surveying Drafting (Sch. Lab)	3	2030:152 Coreq.
2940:240 Electrical & Electronic Drafting (Sch. Lab)	3	2940:122 Coreq.
2980:223 Fundamentals of Map Production* (Sch. Lab)	<u>3</u>	
	17	

Spring Semester

5540: Physical Education	1	
2940:200 Advanced Drafting (Sch. Lab)	3	2940:122
2940:230 Mechanical Systems Drafting (Sch. Lab)	3	2940:122
2940:245 Structural Drafting (Sch. Lab)	2	2940:121
2940:260 Drafting Technology Project	3	Completion of 20 Cr. of 2940
Social Science Electives	<u>3</u>	
	15	

TOTAL CREDITS = 69**SOCIAL SCIENCE ELECTIVES:**

2040:242 American Urban Society	3	
2040:247 Survey of Basic Economics	3	
3350:100 Introduction to Geography	3	
3750:100 Introduction to Psychology	3	

*Those students who follow the program leading to a bachelor's degree in Cartography must take 3350:440 Cartography in place of this course.

Associate Degree in Applied Science in Drafting & Computer Drafting Technology

Program Description

The Drafting Technology Program prepares an individual to work as a career drafter. The program is designed to give the student an in-depth knowledge of drafting principles involved in the major fields of technology including electrical, architectural, mechanical, manufacturing, electronics, surveying, cartography, and structural technology. Drafting is the graphical language of the engineer and the technician. Consequently, there is a need for qualified personnel to interpret and record this means of communication. The responsibilities of a drafter are varied. A project may take him or her from a rough sketch made by an engineer to the "in-the-field" installation of the unit. A single construction project may encompass all three of the main engineering fields: mechanical, electrical, and civil. This program is especially suitable for those who have a special interest or talent for spatial visualization, but who do not wish an extensive coverage of advanced mathematics or physics. The first year provides a foundation in mathematics, building construction, manufacturing processes, technical drawing, architectural drawing, communication skills, and computer skills. The second year builds on this background with courses in specialized areas of drafting with emphasis on laboratory work in electrical, mechanical, structural, surveying drafting, and 3-D computer drafting. The program also includes courses dealing with the economic and human relations aspects of American life in order to foster a sense of social and moral responsibility. Upon completion of the associate degree program in drafting, a student may emphasize a technical specialty by completing a second degree in one of several engineering technology fields or pursue a B.S. in Geography/Cartography or a B.S. in Automated Manufacturing Technology.

Facilities

Extensive drafting facilities are available for instructional purposes and for student utilization on special project work. These facilities consist of two manual drafting labs with drawing tables and drafting machines, a computer-aided drafting lab with 30 workstations and three plotters, and a variety of support equipment such as light tables and diazo machines.

Career Opportunities

As drafting technology has become a skill area that requires specialized training in various technical disciplines as well as computer-assisted drafting, individuals not specifically trained to be drafters are generally unable to meet the needs of industry. Occupational projections show a strong employment demand for drafters through 2010.

A Drafting Technology graduate can be given responsibilities ranging from the preparation of preliminary layouts to the finished working drawings. They are knowledgeable in most phases of drafting as a communication means between the engineer and craftsman.

Opportunities are available as junior and senior drafters in such areas as: Mechanical, Architecture, Electronics, Electrical, Surveying, Structural, Computer-Assisted Drafting, and Construction.

Placement

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

Scheduling

The appointment for scheduling for this program should be made with the Summit College Advising Office, Polsky Building, Room 192, 330-972-7220, to guarantee proper sequence and completion of all requirements for graduation.

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.