

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

**CONSTRUCTION ENGINEERING TECHNOLOGY
2990: Bachelor of 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.

THIRD YEAR**Fall Semester**

	<u>Credit Hours</u>	<u>Prerequisites</u>
Humanities Elective	3	64 credits or Permission
2870:332 Management of Technology Based Operations	3	
2990:352 Field Management & Scheduling	2	2990:245 or Permission
2990:354 Foundation Construction Methods	3	2990:234
3300:112 English Composition II	3	3300:111
Natural Science Elective	<u>3</u>	
	17	

Spring Semester

2990:355 Computer Applications in Construction	3	Admission to BCET program or Perm.
2990:356 Safety in Construction	2	
2990:358 Advanced Estimating	3	2990:245 or Permission
3400:210 Humanities in the Western Tradition	4	32 college credits and 3300:112
6200:201 Accounting Principles I	<u>3</u>	24 college credits
	15	

FOURTH YEAR

Cooperative Work Study (Must have a minimum of 64 credits completed.)

FIFTH YEAR**Fall Semester**

Technical Elective	3	
Area Studies & Cultural Diversity	2	64 credits
2030:356 Technical Calculus II	3	2030:255 or equiv with grade of C- or better or placement test
2420:243 Survey of Finance	3	2420:170, 211; 2040:247 or Perm.
2990:462 Mechanical Service Systems	3	
2990:468 Construction Management	<u>3</u>	2990:352, 358, Sr. Level standing
	17	

Spring Semester

Area Studies & Cultural Diversity	2	64 credits
Humanities Elective	3	64 credits or Permission
Technical Elective	3	
2990:453 Legal Aspects of Construction	2	
2990:463 Electrical Service Systems	3	
2990:466 Hydraulics	3	2030:255
5550:211 First Aid & Cardiopulmonary Resuscitation	<u>2</u>	
	18	

TOTAL CREDITS = 67

Technical Electives:

2820:310	Programming for Technologists	2
2920:310	Economics of Technology	3
2940:245	Structural Drafting	2
2940:250	Architectural Drafting	3
2980:xxx	Any 2980: course not completed as part of the AAS degree in Surveying and Construction Engineering Technology	
2980:123	Surveying Field Practice	2
2990:310	Residential Building Construction	3
2990:320	Advanced Materials Testing	3
2990:351	Construction Quality Control	3
2990:359	Construction Cost Control	3
2990:361	Construction Formwork	3
2990:362	Advanced Elements of Structures	3
2990:420	Hydrology & Groundwater	3
2990:455	Computerized Precision Estimating	3
2990:465	Heavy Construction Methods	3
2990:489	Special Topics in Construction	1-3
2990:490	Workshop in Construction	1-3
2990:498	Independent Study in Construction	1-3

Program Description:

The B.S. in Construction Engineering Technology degree program is a three year, upper level degree program designed to provide the student with additional education beyond the AAS degree in Construction Engineering Technology. This degree is also designed to meet the formal education requirements for registration as a Professional Engineer in the State of Ohio.

This upper degree program is defined as follows:

- The first two years are completed as an AAS degree in Construction Engineering Technology or similarly based program.
- Two of the remaining three years are for the completion of prescribed course work.
- The remaining year of the three years is devoted to a cooperative work experience in the construction field. The student normally enters the co-op segment between the junior and senior years.

The B.S. in Construction Engineering Technology degree program includes classroom, laboratory and industry experiences which prepares students for careers in the construction industry and other allied industries.

Requirements for Admission:

Applicants for the Construction Engineering Technology program must hold an associate degree in Construction Engineering Technology from an accredited program or provide evidence of an equivalent academic background. The applicant must have a minimum cumulative grade-point average of 2.0 out of a possible 4.0.

Applicants with an associate degree in a discipline other than Construction Engineering Technology will be required to complete a specific formal set of courses as specified at the time of admission. Final approval for admission is based upon recommendations from the Director of the Construction Engineering Technology Program.

Cooperative Work Study Requirement::

The required Cooperative Work Study experience of the Construction Engineering Technology Program consists of 52 weeks of construction work experience which may begin after the student has completed 34 hours of course work in the Construction Engineering Technology Program. This program may be satisfied by any one of the following options.

- A. One calendar year.
- B. Three semesters (Summer I and II count as one semester for the co-op).
- C. Department review of prior or concurrent work experience.

Students having prior or concurrent work experience should submit to the Construction Engineering Technology Co-op Review Committee appropriate documentation before signing their program contract. The Construction Engineering Technology Co-op Review Committee will determine whether the work experience satisfies the co-op requirement.

Requirements for Graduation:

- Compliance with the requirements of the general studies program as outlined in this Bulletin.
- Completion of the requirements for the associate degree in Construction Engineering Technology at The University of Akron or an approved associate degree program. Students transferring from another institution must have their transcripts evaluated to ensure that they have the required number of credits in Construction Engineering Technically courses. Those found deficient must complete lower level construction engineering technology course work before upper level construction engineering technology courses can be taken.
- Successful completion of a minimum of 136 credits in the B.S. in Construction Engineering Technology Program including the associate degree program, the general studies courses, a one-year co-op, and the following course requirements.

Third and Fifth Year Requirements:

2030:356	Technical Calculus II (3.0)
2420:243	Survey of Finance (3.0)
2870:332	Management of Technology Based Operations (3.0)
2990:352	Field Management & Scheduling (2.0)
2990:354	Foundation Construction Methods (3.0)
2990:355	Computer Applications in Construction (3.0)
2990:356	Safety in Construction (2.0)
2990:358	Advanced Estimating (3.0)
2990:453	Legal Aspects of Construction (2.0)
2990:462	Mechanical Service Systems (3.0)
2990:463	Electrical Service Systems (3.0)
2990:466	Hydraulics (3.0)
2990:468	Construction Management (3.0)
3300:112	English Composition II (3.0)
	Natural Science Elective (3.0)
3400:210	Humanities in the Western Tradition (4.0)
5550:211	First Aid and Cardiopulmonary Resuscitating (2.0)
6200:201	Accounting Concepts and Principles for Business (3.0)
xxxx:xxx	Area Studies and Cultural Diversity (4.0)
xxxx:xxx	Humanities Requirement (6.0)
	Technical Electives (6.0)