

# COMPUTER ENGINEERING TECHNOLOGY – A.A.S. Degree Program

A TAC of ABET ACCREDITED ENGINEERING TECHNOLOGY CURRICULUM

## REQUIREMENTS FOR THE A.A.S. DEGREE

GENERAL EDUCATION CORE REQUIREMENTS		Credits
EN-101, 102	English Composition I, II .....	6
MA-114	College Algebra and Trigonometry for Technical Students .....	4
MA-128	Calculus for Technical and Business Students .....	4
PH-201†, 202†	General Physics I, II .....	8
SS or HI	Electives in Social Science <b>or</b> History (HI-100 series) .....	6
<b>Sub-total</b>		<b>28</b>

## REQUIREMENTS FOR THE MAJOR

ET-110	Electric Circuit Analysis I .....	4
ET-140	Sinusoidal and Transient Circuit Analysis .....	3
ET-210§	Electronics I .....	4
ET-350§	Computer Control Systems .....	4
ET-420	Computer Project Laboratory .....	1
ET-501	Computer Applications .....	1
ET-502	Introduction to Computer Programming .....	1
ET-504§	Operating Systems and System Deployment .....	2
ET-509	C++Programming for Embedded Systems .....	1
ET-540§	Digital Computer Theory I .....	4
ET-542	Computer and Electrical Device Applications .....	1
ET-560§	Microprocessors and Microcomputers .....	4
ET-704	Networking Fundamentals I .....	4
<b>Sub-total</b>		<b>34</b>

## ELECTIVES

_____	ET electives † †† .....	2
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**Total Credits Required .....64**

*Note: On the basis of a Speech Placement Test administered to all students upon admission, up to two semesters of remedial speech may be required.*

\* Students may substitute MA-440 and MA-441 in place of MA-114 and 128.

† Physics 301, 302 or 411, 412, 413 courses may be substituted for PH-201, 202.

†† Elective credits for the Computer Engineering Technology Program may be chosen from ET-220, ET-230§, 305, 481, 490, 505, 506, 507; 701, 705; 706; 707; 710§, 712, 720, 991, 992, 993 (see Courses Descriptions).

§ Sections of this course denoted as “WT” may be taken to partially satisfy the Writing Intensive Requirement.

Two (2) Writing Intensive classes are required for the Associate degree. See page 69.

## SUGGESTED SEQUENCE OF COURSES

Semester 1		Credits
MA-114*	College Algebra and Trigonometry for Technical Students .....	4
ET-110	Electric Circuit Analysis I .....	4
ET-501	Computer Applications .....	1
ET-540§	Digital Computer Theory I .....	4
EN-101	English Composition I .....	3
<b>Sub-total</b>		<b>16</b>
Semester 2		
MA-128	Calculus for Technical and Business Students .....	4
ET-140	Sinusoidal and Transient Circuit Analysis .....	3
ET-210§	Electronics I .....	4
ET-502	Introduction to Computer Programming .....	1
ET-509	C++Programming for Embedded Systems .....	1
SS or HI	Electives in Social Science <b>or</b> History (HI-100 series) .....	3
<b>Sub-total</b>		<b>16</b>
Semester 3		
PH-201	General Physics I .....	4
ET-504§	Operating Systems and System Deployment .....	2
ET-542	Computer and Electrical Device Applications .....	1
ET-560§	Microprocessors and Microcomputers .....	4
Tech Elective	ET electives †† .....	2
EN-102	English Composition II .....	3
<b>Sub-total</b>		<b>16</b>
Semester 4		
PH 202	General Physics II .....	4
ET-350§	Computer Control Systems .....	4
ET-420	Computer Project Laboratory .....	1
ET-704	Networking Fundamentals I .....	4
SS or HI	Electives in Social Science <b>or</b> History (HI-100 series) .....	3
<b>Sub-total</b>		<b>16</b>
<b>Total Credits Required .....</b>		<b>64</b>