



# INFORMATION TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE



## COMPUTER ENGINEERING TECHNOLOGY (5350)

TECHNICAL Course Number	Course Title	Credits	Completed Sem./Year
ECA122	Computer Applications for Technical Professionals or (ECA170, ECA171, ECA172, and ECA173)	3	
ECA127	Programming Logic and Problem Solving	3	
ECA128	Visual Basic Development	3	
ECA223	Java Programming	3	
ECA227	Assembly Language Programming	3	
ECA253	Data Modeling and Database Design	3	
ECA260	▲ Software Engineering for Hand-Held Devices	3	
ECA261	▲ Software Engineering for Robotics	3	
EET123	Electronic Devices and Circuits	4	
EET227	PLC's & Industrial Controls I	3	
EET262	Pulse and Digital Integrated Circuits	4	
EST130	Electrical Circuits and Devices	4	
<b>TOTAL</b>		<b>36</b>	
BASIC/RELATED Course Number	Course Title	Credits	Completed Sem./Year
ITD1XX	Information Technology Seminar	1	
ECA292	Information Technology Capstone	3	
MTH125	College Algebra	4	
MTH126	PreCalculus	4	
MTH128	Trigonometry	1	
MTH221	Concepts of Calculus	3	
PHY121	Physics I	4	
<b>TOTAL</b>		<b>20</b>	
NON-TECH Course Number	Course Title	Credits	Completed Sem./Year
ENG124	College Composition	3	
ENG221	Technical Report Writing	3	
COM121/122/123	Effective Speaking or Interpersonal Communication or Intergroup Communications	3	
	Select one (1) Arts/Humanities/Social Science elective from the list below.	3	
	Select one (1) Arts/Humanities/Social Science elective from the list below.	3	
<b>TOTAL</b>		<b>15</b>	
<b>TOTAL CREDIT HOURS</b>		<b>71</b>	

Arts/Humanities/Social Science Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC123, SOC225, PSC121

▲ Choose 3 hours of electives

This program articulates directly into The University of Toledo as a 2+3 into the Computer Science and Engineering Technology

FULL-TIME STUDENT - ADVISING NOTES

1. ACADEMIC ADVISING - Each student should make an appointment to see their advisor every semester before registering for classes. Please have your registration form completed, including the courses you wish to take, for this meeting.
2. COURSE SEQUENCE - The semester-by-semester listing below gives the normal scheduling option for full-time associate degree students who plan to finish in two years. Some courses can be scheduled as beginning courses in other semesters depending upon course availability and advisor's recommendation. Those whose preadmission test indicates the need for it should schedule Introduction to Algebra before College Algebra. Introduction to Algebra and selected technical and general studies courses are available summer term.
3. TECHNICAL ELECTIVES - Some programs provide for technical electives. Consult with your academic advisor to determine course availability.
4. BACHELOR'S DEGREE - In most of the associate degree programs, some courses may be applied toward a bachelor's degree in technology. Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer. Please inform your advisor if you plan on completing a bachelor's degree after your SSCT information technology degree.

**COMPUTER ENGINEERING TECHNOLOGY (5350)**

First Semester	Course Title	Credit Hours	Pre-requisite
ITD1XX	Information Technology Seminar	1	-
ECA122	Computer Applications for Technical Professionals	3	-
ECA127	Programming Logic and Problem Solving	3	-
ECA253	Data Modeling and Database Design	3	-
ENG124	College Composition	3	Test
EST130	Electrical Circuits and Devices	4	MTH125 or Test
<b>TOTAL</b>		17	
Second Semester	Course Title	Credit Hours	Pre-requisite
COM121/122/123	Effective Speaking or Interpersonal Communication or Intergroup Communications	3	None/None/ ENG124
ECA128	Visual Basic Development	3	ECA127
ECA223	Java Programming	3	ECA127
EET123	Electronic Devices and Circuits	4	EST130
MTH125	College Algebra	4	MTH101 or MTH103 or Test
<b>TOTAL</b>		17	
Summer Semester	Course Title	Credit Hours	Pre-requisite
ENG221	Technical Report Writing	3	ENG124
	Arts/Humanities/Social Science Elective	3	-
	Arts/Humanities/Social Science Elective	3	-
<b>TOTAL</b>		9	
Third Semester	Course Title	Credit Hours	Pre-requisite
ECA227	Assembly Language Programming	3	ECA222 or ECA223
ECA260	▲ Software Engineering for Hand-Held Devices	3	ECA223
ECA261	▲ Software Engineering for Robotics	3	ECA223
EET227	PLC's and Industrial Controls I	3	EST130
MTH126	PreCalculus	4	MTH125
MTH128	Trigonometry	1	MTH125
<b>TOTAL</b>		14	
Fourth Semester	Course Title	Credit Hours	Pre-requisite
ECA292	Information Technology Capstone	3	Sophomore Status
EET262	Pulse and Digital Integrated Circuits	4	EET123
MTH221	Concepts of Calculus	3	MTH125
PHY121	Physics I	4	MTH125, MTH128
<b>TOTAL</b>		14	
<b>TOTAL CREDITS</b>		<b>71</b>	

ECA292 should be taken in the last or next-to-last semester of enrollment