# Work Sheet - Diploma Degree in Computer Engineering Technology (CET)

## Diploma Degree in Computer Engineering Technology (65 Credit Hours) - Work Sheet

## Minimum Technology Core Requirements (38- 39 credit hours)

	Course Code	Course Title	<u>CR</u>	<u>Pre-Req, ConP</u>	Other Information	<u>Term</u>	<u>Comments</u>					
Eng	ineering Tech	nology Fundamentals (2 – 3 credits)										
	<b>CPET 190</b>	Problem Solving with MATLAB	3	Pre: MA 159 or ConP: MA 165								
or	or											
	ET 131	Transforming Ideas to Innovations I	2	None								
Lin	ear Circuits An	alysis (8 credits)										
	<b>CPET 101</b>	Electrical Circuits	4	ConP: MA 159 or MA 165								
or												
	ECET 201	Linear Circuit Analysis I	3	ConP: MA 165 or MA 227								
	ECET 200	Electronic Measurement Techniques Lab	1	ConP: ECET 201								
and				· · · · ·								
	ECET 152	Electric Circuits II	4	Pre:CPET101,or ECET107 or ECET201 ConP: MA159 or MA165								
or												
	ECET 202	Linear Circuits Analysis II	3	Pre: CPET 101, or ECET 107 or ECET 201 ConP: MA 165, or MA 227								
	ECET 203	Linear Circuits Analysis II Lab	1	Pre: ECET 200, or CPET 101 or ECET 107 , ConP: ECET 202								
Dig	ital Logic Circ	uits (8 credits)										
	ECET 111	Introduction to Digital System Design I	4	None								
	ECET 146	Introduction to Digital System Design II	4	Pre: ECET 111								
Ele	ctronics Circui	ts Analysis (4 credits)		· · · · · · · · · · · · · · · · · · ·								
	ECET 204	Analog Electronics II	4	Pre: ECET152 or ECET 207, or ECET202, MA159 or MA165								
or				·								

ACM reserves the right to change program content, course requirements, materials, course offerings, and/or schedules as deemed necessary.

			Pre: CPET 101, or ECET 107 or						
<b>ECET</b> 255	Introduction to Electronic Analysis and Design	3	ECET 201						
			ConP: MA 165, or MA 227						
ECET 200	Electronic Devices and Design Laboratory	1	Pre: ECET 200,or CPET 101 or						
ECET 200	Electronic Devices and Design Laboratory	1	ECET 107, ConP: ECET 255						
Microprocessor Systems and Interfacing (4 credits)									
ECET DOE			Pre: ECET 111,						
ECET 205	Introduction to Microprocessors	4	ConP: ECET 264						
Computer Programming Fundamentals (3 credits)									
ECET 264	C Programming Language Applications	3	Pre: CPET 190 or ET 131						
nputer Comm	unication Networks (3 credits)								
CDET 201	Introduction to Computer Communication	2							
Networks	Networks	3	Pre: CPET 181						
Operating Systems Fundamentals (3 credits)									
CPET 181	Computer Operating Systems Basics	3	None						
ineering Tech	nology Project (3 credits)								
ECET 206	Electronic System Entrication	2	Pre: ECET204 or ECET255 and						
ECET 290	Electronic System Fabrication	э	ECET 208						
r	ECET 208 Croprocessor S ECET 205 mputer Progra ECET 264 mputer Comm CPET 281 erating System CPET 181	ECET 208       Electronic Devices and Design Laboratory         ECET 208       Electronic Devices and Design Laboratory         ECET 205       Introduction to Microprocessors         mputer Programming Fundamentals (3 credits)         ECET 264       C Programming Language Applications         mputer Communication Networks (3 credits)         CPET 281       Introduction to Computer Communication Networks         erating Systems Fundamentals (3 credits)         CPET 181       Computer Operating Systems Basics         gineering Tech-bogy Project (3 credits)	ECET 208Electronic Devices and Design Laboratory1ECET 208Electronic Devices and Design Laboratory1ECET 205Introduction to Microprocessors4mputer Programming Fundamentals (3 credits)4ECET 264C Programming Language Applications3mputer Communication Networks (3 credits)3CPET 281Introduction to Computer Communication Networks3erating Systems Fundamentals (3 credits)3CPET 181Computer Operating Systems Basics3gineering Tech-Dogy Project (3 credits)3	ECET 255Introduction to Electronic Analysis and Design3ECET 201 ConP: MA 165, or MA 227ECET 208Electronic Devices and Design Laboratory1Pre: ECET 200, or CPET 101 or ECET 107, ConP: ECET 255crorrocessor Systems and Interfacing (4 credits)4Pre: ECET 107, ConP: ECET 264ECET 205Introduction to Microprocessors4Pre: ECET 264ECET 264C Programming Language Applications3Pre: CPET 190 or ET 131muture Communication Networks (3 credits)3Pre: CPET 190 or ET 131CPET 281Introduction to Computer Communication Networks3Pre: CPET 181CPET 181Computer Operating Systems Basics3Nonegine=ring Tect-bogy Project (3 credits)3Pre: ECET204 or ECET255 andECET 296Electronic System Fabrication3Pre: ECET204 or ECET255 and	ECET 255       Introduction to Electronic Analysis and Design       3       ECET 201 ConP: MA 165, or MA 227         ECET 208       Electronic Devices and Design Laboratory       1       Pre: ECET 200, or CPET 101 or ECET 107, ConP: ECET 255         ECET 205       Introduction to Microprocessors       4       Pre: ECET 111, ConP: ECET 264         mputer Programming Fundamentals (3 credits)       4       Pre: CPET 190 or ET 131         ECET 264       C Programming Language Applications       3       Pre: CPET 190 or ET 131         mputer Communication Networks (3 credits)       3       Pre: CPET 181         cPET 281       Introduction to Computer Communication Networks       3       Pre: CPET 181         cPET 181       Computer Operating Systems Basics       3       None         gineering Tectmology Project (3 credits)       3       Pre: ECET204 or ECET255 and	ECET 255       Introduction to Electronic Analysis and Design       3       ECET 201       ConP: MA 165, or MA 227         ECET 208       Electronic Devices and Design Laboratory       1       Pre: ECET 200, or CPET 101 or ECET 255       Image: CPET 205       Pre: ECET 107, ConP: ECET 255       Image: CPET 205       Introduction to Microprocessors       4       Pre: ECET 111, ConP: ECET 264       Image: CPET 264       Image:			

Technology Core Req. Credits Planned (38 - 39): \_\_\_\_\_

Credits Completed: \_\_\_\_\_ Credits Remaining: \_\_\_\_\_

# Math and Science Requirements (12 - 13 credit hours)

### Quantitative Reasoning (8-9 credit hours)

		<u>Course</u> <u>Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other</u> Information	<u>Term</u>	<u>Comments</u>
		MA 159	Precalculus	5	None			
		MA 227	Calculus for Technology I	4	Pre: Placement Test or MA 158 or MA 159 or MAT 110			
0	r							
		MA 165	Analytic Geometry and Calculus I	4	Pre: Placement Test or Pre: MA 158, or MAT 110 or MA 159			
		MA 166	Analytic Geometry and Calculus II	4	Pre: MA 165 or MA 227			

 Quantitative Reasoning Credits Planned (8-9):
 Credits Completed:
 Credits Remaining:

#### Scientific Ways of Knowing (4 credit hours)

	<u>Course</u> <u>Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other</u> Information	<u>Term</u>	<u>Comments</u>
[	PHYS 218	Modern Mechanics	4	Pre: MA 159 or MA 161 or MA 223 or ConP: MA 165 or MA 227			

Scientific Ways of Knowing Credits Planned (4): \_\_\_\_\_

Credits Completed: \_\_\_\_\_

Credits Remaining: \_\_\_\_\_

ACM reserves the right to change program content, course requirements, materials, course offerings, and/or schedules as deemed necessary.

## Liberal Arts Requirements (13 – 15 credit hours):

#### English Language and Communication Skills (9 – 10 credit hours)

	<u>Course</u> <u>Code</u>	Course Title	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other</u> Information	<u>Term</u>	<u>Comments</u>		
	ENGL 100	English for Academic Studies	3	None					
	COM 114	Fundamentals of Speech Communication	3	Pre: ENGL 100					
and		-		-	<u>.</u>				
	ENGL 107	First Year Composition	4	Pre: ENGL 100					
or									
	ENGL 106	English Composition	3	Pre: ENGL 100					

## **General Education Requirement (4 – 6 credit hours)**

<u>Course</u> <u>Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other</u> Information	<u>Term</u>	<u>Comments</u>

Liberal Arts Credits Planned (13-15):

Credits Completed: \_\_\_\_\_ Credits Remaining: \_\_\_\_\_

**Total Credits Required for Degree:** <u>65</u>

Total Credits Planned: \_\_\_\_\_ Total Credits Completed: \_\_\_\_\_ Total Credits Remaining: \_\_\_\_