

**Department of Computer Engineering Technology – Advisement Sheet, 2020-2021**  
**Only for Students Who Enrolled Summer 2013 or After (CUNY Pathway)**

Student Name:

EMPL ID:

Major: [ ] EMT-AAS [ ] CET-BT

<b>Electromechanical Technology Degree (A.A.S. Requirements) (Require following pre/co requisites sequence to take courses)</b>				<b>Degree Credits: 64 or 66</b>	
Semester	Code	Course Title	Prerequisite (Pre.) or Corequisite (Co.)	Credits	Completed/Will enroll
<b>1<sup>st</sup></b>	EMT 1111	Logic and Problem Solving	Pre: CUNY proficiency in mathematics	1	
	EMT 1120	Technical Graphics	Pre: None	1	
	EMT 1130	Electromechanical Manufacturing Laboratory	Pre: None	1	
	EMT 1150	Electrical Circuit (co: EMT 1150L)	Pre/Co: MAT 1175 or higher, EMT 1120, EMT 1130	5	
<b>2<sup>nd</sup></b>	EMT 1220	Mechanism (co: EMT 1220L)	Pre: EMT 1120, EMT 1130 Pre/Co: MAT 1275 or higher, PHYS 1433 or PHYS 1441	4	
	EMT 1250	Fundamentals of Digital Systems (co: EMT 1250L)	Pre: EMT 1111, EMT 1130, EMT 1150	4	
	EMT 1255	Electronics (co: EMT 1255L)	Pre/Co: EMT 1250, MAT 1375 or higher (WI*)	4	
<b>3<sup>rd</sup></b>	EMT 2320	Advanced Mechanism (co: EMT 2320L)	Pre: EMT 1120, EMT 1220; Pre/Co: EMT 1255	5	
	EMT 2370	Computer Hardware	Pre: EMT 1250	2	
	EMT 2390L	Operating Systems Laboratory	Pre/Co: EMT 2370	1	
<b>4<sup>th</sup></b>	EMT 2455	Data Communications	Pre: EMT 1250, EMT 2370	2	
	EMT 2461	Electromechanical Systems: Software Interface	Pre: EMT 1111, EMT 2370 Pre/Co: EMT 2455, EMT 2480L, MAT 1475 or higher	2	
	EMT 2480L	Electromechanical Systems Design Laboratory	Pre: EMT 2320, PHYS 1433 or PHYS 1441, ENG 1101	1	
	Choose 1	<b>Technical Elective:</b> EMT 2410 C/C++ Programming for Embedded Systems (Pre/Co: EMT 2370 or dept permission) or CST 2403 Intro C++ Programming (Pre/Co: EMT 1111 and MAT 1275 or higher) or CET 3910 Mechanics of Materials		3	
<b>Subtotal EMT Program Degree Required Credits</b>				36	
<b>Semester</b>	<b>General Education Required and Flexible Core:</b>				
<b>1<sup>st</sup></b>	ENG 1101	English Composition I (Pre: CUNY read, write proficiency)		3	
<b>1<sup>st</sup></b>	MAT 1375	Precalculus (without the requisite math, take MAT 1275CO or MAT 1275 in preparation) (Mathematical and Quantitative Reasoning)		4	
		MAT 1275CO (may be required, increase 4 credits for the required degree credits)			
		MAT 1275 (may be required, increase 4 credits for the required degree credits)			
<b>2<sup>nd</sup></b>	PHYS 1433	PHYS 1433 (General Physics I Algebra-based) (Life and Physical Sciences) (WI*) or PHYS 1441 (General Physics I Calculus based)		4 or 5	
<b>3<sup>rd</sup></b>	ENG 1121	English Composition II Pre: ENG 1101		3	
<b>3<sup>rd</sup></b>	MAT 1475	Calculus I (or higher) Pre: MAT 1375 (Scientific World)		4	
<b>4<sup>th</sup></b>	PHYS 1434	PHYS 1434 (General Physics II Algebra-based) (Scientific World) (WI*) or PHYS 1442 (General Physics II Calculus based)		4 or 5	
<b>Only for Students Who Enrolled Summer 2013 or After.</b> For complete list of courses, reference College Catalog and Degree Audit and Pathway Website: <a href="https://www.citytech.cuny.edu/advisement/">https://www.citytech.cuny.edu/advisement/</a>					
<b>3<sup>rd</sup></b>  <b>4<sup>th</sup></b>	Choose 2 (GenEd Elective)	Select one approved course from each of any two areas  <b>(No more than two courses may be selected from any category)</b>  (DegreeWorks or Academic advising website for WI Section(s))	<b>Individual and Society:</b> AFR2000, AFR2250, ARTH2101, COM1335, COM2402, COM3401, ECON1401, ENG1151, ENG1161, ENG1773, ENG2000, ENG2150, ENG2420, ENG3401, ENG3402, ENG3403, ENG3404, LIB1201, PHIL2101, PHIL2103, PHIL2104, PHIL2106, PHIL2107, PHIL2203, PHIL3208, PHIL3211, PHIL3212, PHIL3400, PSY1101, PSY2300, PSY2301, PSY2302, PSY2303, PSY2401, PSY2402, PSY2403, PSY2404, PSY3405, SOC1101, SOC1102, SOC1103, SOC2201, SOC2401, SOC2403, SOC3302, SOC3402, etc.	6	
			<b>World Cultures and Global Issues:</b> AFR1130, AFR1401, AFR1460, AFR1461, AFR1462, AFR1467, AFR 2212, AFR2222, AFR2612, ANTH1101, ANTH1102, ANTH1103, ARB1101, ARB1102, ARB2201, ARTH1101, ARTH1102, ARTH1103, ARTH1106, ARTH1108, ARTH1110, ARTH3401, CHN1101, CHIN1102, COM2401, ECON2505, ENG2100, ENG2101, ENG2160, ENG2300, ENG2301, FREN1101, FREN1102, HIS1101, HIS1102, HIS1103, HIS1501, HIS1503, HIS2000, LNG1100, MUS1212, PHIL2121, PRS1461, PRS2202, PRS2211, SOC3301, SPA1101, SPA1102, SPA1301, SPA2201, SPA2202, etc.		
			<b>US Experience in its Diversity:</b> AFR1465, AFR1466, AFR1501, AFR1502, AFR2201, AFR2202, AFR3000, ARCH3522, ARTH1104, ECON1101, ECON2403, ENG2180, ENG2190, ENG2200, ENG2201, ENG2250, GOV1101, GOV1102, GOV2402, HIS1110, HIS1111, HIS2405, HIS3208, HIS3209, HIS3310, PRS2501, SOC1104, etc.		
			<b>Creative Expression:</b> AFR1301, AFR1304, AFR1311, AFR1321, AFR1503, AFR2302, ARCH2321, ARTH1100, ARTH1112, ARTH3311, COM1340, ENG1141, ENG2001, ENG2002, ENG2003, ENG2170, ENG2400, ENG3407, MUS1210, MUS1211, MUS2206, MUS2207, THE2180, THE2280, THE2380, THE3280, etc.		
<b>Subtotal Core Required Credits for EMT</b>				28 or 30	

WI\*: Check DegreeWorks or Academic advising website for **writing intensive course(s) and section(s)** <https://www.citytech.cuny.edu/advisement/writing-intensive.aspx>  
 Must complete two courses designated WI (writing intensive) for the associate level, one from general education requirements (GenEd) and one from the major

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EMPL ID: \_\_\_\_\_

Major: [     ] CET-BT

		<b>Computer Engineering Technology Degree (CEB Requirements)</b>			<b>Degree Credits: 64</b>	
		<b>Associate Degree (EMT, EET/TCET or MECH) or Acceptable Equivalent</b>			<b>64 or 66 credits (AAS)</b>	
<b>Semester</b>	<b>Code</b>	<b>Course Title</b>	<b>Prerequisite (Pre.) or Corequisite (Co.)</b>	<b>Credits</b>	<b>Completed/ Will enroll</b>	
5 <sup>th</sup>	CET 3510	Microcomputer Systems Technology (Co: CET 3510L)	<b>Pre:</b> previous course in digital electronics <b>Pre/Co:</b> EMT 2410 or CST 2403, MAT 1575 or higher	4		
	CET 3525	Electrical Networks (Co: CET 3525L) <i>(Required only for students with AAS in EMT or MECH)</i>	<b>Pre/Co:</b> MAT 1575 or higher	4		
	CET 3550	Analog and Digital Electronics (Co: CET 3550L) <i>(Required only for students with AAS in MECH)</i>	<b>Pre/Co:</b> MAT 1575 or higher, CET 3525	(4)		
6 <sup>th</sup>	CET 3615	Instrumentation and Data Acquisition (Co: CET 3615L)	<b>Pre:</b> MAT 1575 or higher, CET 3525, PHYS 1434 or PHYS 1442	4		
	CET 3625	Applied Analysis Laboratory	<b>Pre/Co:</b> MAT 2680 (retaking due "D" not covered by TAP)	1		
	CET 3640	Software for Computer Control	<b>Pre:</b> EMT 2410 or CST 2403, CET 3510	3		
7 <sup>th</sup>	CET 4705	Component and Subsystem Design I	<b>Pre:</b> CET 3625 with a grade of C or higher, previous course(s) in analog and digital electronics	2		
	CET 4711	Computer Controlled System Design	<b>Pre:</b> CET 3640; <b>Pre/Co:</b> CET 4705	2		
	CET 4773	Inter-networking Technology	<b>Pre:</b> CET 3510 (WI*)	4		
	CET 4762	Electromechanical Devices (Co: CET 4762L) <i>(Required only of students with AAS in EET/TCET)</i>	<b>Pre:</b> CET 3615, CET 3625 with grades of C or higher	(4)		
8 <sup>th</sup>	CET 4805	Component and Subsystem Design II	<b>Pre:</b> CET 4705	2		
	CET 4811	Capstone Design Project	<b>Pre:</b> CET 3640, CET 4711; <b>Pre/Co:</b> CET 4773, CET 4805, CET 4864	2		
	CET 4864	Principles of Feedback Control Systems	<b>Pre:</b> CET 3625, MAT 2580	4		
7 <sup>th</sup>	Choose 1	<b>Technical Elective I</b> (Required only for students with AAS in EMT, EET/TCET): CET 4900 Series (CET 4952, CET 4960, CET 4962, CET 4973, CET 4925, CET 4935, etc.), CET 3910, CST 3500 Series or higher, or TCET 3100 series or higher	4			
8 <sup>th</sup>	Choose 1	<b>Technical Elective II:</b> Internship CET 4900 (with Dept permission) or CET 4900 Series (CET 4925, CET 4952, CET 4960, CET 4962, CET 4973, CET 4925, CET 4935, etc.), CET 3910, CST 3500 Series or higher, or TCET 3100 series or higher <i>(Required Technical Elective II only for students with an AAS in MECH: EMT 2410 or CST 2403 or an approved equivalent)</i>	3			
5 <sup>th</sup>	MAT 1575	Calculus II <b>Pre:</b> MAT 1475		4		
6 <sup>th</sup>	MAT 2680	Differential Equations <b>Pre:</b> MAT 1575		3		
				<b>Subtotal CEB Level Credits</b>		<b>46</b>
<b>General Education Required Core</b> in the areas of <i>English Composition, Mathematical and Quantitative Reasoning, Life and Physical Sciences</i> (taken at associate level)						
<b>Semester</b>	<b>General Education Electives and College Option including Interdisciplinary Course</b>					
5 <sup>th</sup>	COM 1330 Public Speaking or higher (College Option)		<b>Pre:</b> CUNY read, write proficiency	3		
7 <sup>th</sup>	MAT 2580 Introduction to Linear Algebra (College Option)		<b>Pre/Co:</b> MAT 1575	3		
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6 <sup>th</sup>	Choose 2 (GenEd Elective)	Select one approved course from each of any two areas. (Choose the areas that have not been taken at associate level.)  (No more than two courses may be selected from any category.)	<b>Individual and Society:</b> AFR2000, AFR2250, ARTH2101, COM1335, COM2402, COM3401, ECON1401, ENG1151, ENG1161, ENG1773, ENG2000, ENG2150, ENG2420, ENG3401, ENG3402, ENG3403, ENG3404, LIB1201, PHIL2101, PHIL2103, PHIL2104, PHIL2106, PHIL2107, PHIL2203, PHIL3208, PHIL3211, PHIL3212, PHIL3400, PSY1101, PSY2300, PSY2301, PSY2302, PSY2303, PSY2401, PSY2402, PSY2403, PSY2404, PSY3405, SOC1101, SOC1102, SOC1103, SOC2201, SOC2401, SOC2403, SOC3302, SOC3402, etc.  <b>World Cultures and Global Issues:</b> AFR1130, AFR1401, AFR1460, AFR1461, AFR1462, AFR1467, AFR2212, AFR2222, AFR2612, ANTH1101, ANTH1102, ANTH1103, ARB1101, ARB1102, ARB2201, ARTH1101, ARTH1102, ARTH1103, ARTH1106, ARTH1108, ARTH1110, ARTH3401, CHN1101, COM2401, ECON2505, ENG2100, ENG2101, ENG2160, ENG2300, ENG2301, FREN1101, FREN1102, HIS1101, HIS1102, HIS1103, HIS1501, HIS1503, HIS2000, LNG1100, MUS1212, PHIL2121, PRS1461, PRS2202, PRS2211, SOC3301, SPA1101, SPA1102, SPA1301, SPA2201, SPA2202, etc.	6		
7 <sup>th</sup>		(More options available on DegreeWorks or Academic advising website for WI Section(s))	<b>US Experience in its Diversity:</b> AFR1465, AFR1466, AFR1501, AFR1502, AFR2201, AFR2202, AFR3000, ARCH3522, ARTH1104, ECON1101, ECON2403, ENG2180, ENG2190, ENG2200, ENG2201, ENG2250, GOV1101, GOV1102, GOV2402, HIS1110, HIS1111, HIS2405, HIS3208, HIS3209, HIS3310, PRS2501, SOC1104, etc.  <b>Creative Expression:</b> AFR1301, AFR1304, AFR1311, AFR1321, AFR1503, AFR2302, ARCH2321, ARTH1100, ARTH1112, ARTH3311, COM1340, ENG1141, ENG2001, ENG2002, ENG2003, ENG2170, ENG2400, ENG3407, MUS1210, MUS1211, MUS2206, MUS2207, THE2180, THE2280, THE3280, THE3280, etc.			
7 <sup>th</sup>		Choose 2 (College Option)	Interdisciplinary (ID course)	AFR3000ID, AFR3001ID, ARTH2101ID, COM2403ID, CST1102ID, ECON2505ID, ECON2820ID, ENG2170ID, ESCI2000ID, HIS3402ID, HIS3209ID, LIB2205ID, ARCH2205ID, PHIL2202ID, PHIL2203ID, PHYS1002ID, PHYS1010ID, PHYS2443ID, PHYS3600ID, SBS2000ID, SOC2401ID, SOC3302ID, SOC2380ID, THE2280ID, etc.	3	
8 <sup>th</sup>		Liberal arts Section(s)	ARCH1121, BIO1100, ENG1141, ENG1151, ENG1710, MAT1372, MAT2440, MAT2572(4cr), MAT2675(4cr), CHEM1110(4cr), etc. All Latin American Studies Courses. All AFR, ARB, ASL, CHN, FREN, SPA, ARTH, MUS, COM (except COM1320), and THE courses (more options available on Academic advising website)	3		
				<b>Subtotal GenEd Core Credits</b>		<b>18</b>
<b>WI*:</b> Must complete two additional courses designated WI (writing intensive) for the baccalaureate level, one from GenEd and one from the major, 4 WI courses in total. Website for <b>writing intensive course(s) and section(s):</b> <a href="https://www.citytech.cuny.edu/advisement/writing-intensive.aspx">https://www.citytech.cuny.edu/advisement/writing-intensive.aspx</a>						