SAMPLE DEGREE MAP For Associate in Applied Science in Electromechanical Engineering Technology and Bachelor of Technology in Computer Engineering Technology, entering at MAT 1375.

SEMESTER 1		SEMESTER 2		SEMESTER 3		SEMESTER 4		SEMESTER 5		SEMESTER 6		SEMESTER 7		SEMESTER 8	
EMT 1111	1	EMT 1220	4	EMT 2320	5	EMT 2455	2	CET 3510	4	CET 3615	4	CET 4705	2	CET 4805	2
EMT 1120	1	EMT 1250	4	EMT 2370	2	EMT 2461	2	CET 3525	4	CET 3625	1	CET 4711	2	CET 4811	2
EMT 1130	1	EMT 1255	4	EMT 2390L	1	EMT 2480	1	MAT 1575	4	CET 3640	3	MAT 2580	3	CET 4864	4
EMT 1150	5	PHYS 1433	4	MAT 1475	4	PHYS 1434	4	COM 1330^	3	MAT 2680	3	CET 4773	4	TECH Elect II	4
MAT 1375	4			ENG 1121	3	CST 2403/EMT 2410	3			TECH Elect I	3	ID	3	WI	3
ENG 1101	3			FlexCore	3	WI	3			FlexCore	3	FlexCore	3		
Total Credits	15	Total Credits	16	Total Credits	18	Total Credits	15	Total Credits	15	Total Credits	17	Total Credits	17	Total Credits	15

PROGRAM-SPECIFIC ELECTIVE COURSES

TECHNICAL ELECTIVES (TECH ELECT)

Courses are 3 credits except where noted ( )

Select One Course From Each Category.

TECHNICAL ELECTIVE I (BTECH)
(Required only for students with an AAS in EMT, EET/TCET)
CET 4900 series, CST 3500 or higher, or TCET 3100 or higher, with department permission.

TECHNICAL ELECTIVE II (BTECH)
EMT 2410 or CST 2403 (or an approved equivalent)
(required only for students with an AAS in MECH)
Choose from CET 3910, CET 3572, CET 3672, CET 4772, CET 4872, CET4900 series, CST 3500 or higher, or TCET 3100 or higher, with department permission.

For Students Entering with an AAS

Students entering with an AAS in Electrical Engineering Technology or Telecommunications Engineering Technology or an equivalent degree must also complete MAT 1375, Precalculus, and CET 4762, Electromechanical Devices, but are not required to take CET 3525, Electrical Networks and CET 3550, Analog and Digital Electronics.

Students entering with an AAS in Mechanical Engineering Technology or an equivalent degree must also complete CST 2403, Introductory C++ Programming Language I, or EMT 2410 C/C++ Programming for Embedded Systems, and CET 3550, Analog and Digital Electronics, but are not required to take the two technical electives.

The College will grant a bachelor of technology (BTech) degree with a major in Computer Engineering Technology upon satisfactory completion of an AAS degree in any of the following fields: electromechanical engineering technology, electrical and telecommunications engineering technology, mechanical engineering technology OR AN ACCEPTABLE EQUIVALENT, and the required 64 credits listed above.

REQUIREMENTS (REQ)♦

General Education Required and Flexible Common Core

Refer to the *college catalog* for specific courses in *General Education*.

Required: English Composition (EC), Mathematical and Quantitative Reasoning (MQR), Life and Physical Sciences (LPS)

Flexible: World Culture and Global Issues (WCGI), US Experience in its Diversity (USED), Individual and Society (IS), Creative Expression (CE), Scientific World (SW)
Students can complete no more than two courses from any one area.

Liberal Arts

The *liberal arts* and sciences courses comprise the disciplines of the humanities, natural sciences and mathematics, and social science.
An advanced liberal arts course[1] is at the 2000 level or higher, and has a prerequisite in the same or a closely related discipline.

Interdisciplinary Courses (ID)

Interdisciplinary courses focus on questions, problems, and topics too complex or too broad for a single discipline or field to encompass adequately. Such courses draw connections between seemingly exclusive domains. Interdisciplinary courses are designated ID in the course number and are taught by more than one person.

Writing Intensive (WI)

Students must complete two courses designated Writing Intensive (WI) for the associate level, one from general education and one from the major; and two additional WI courses for the baccalaureate level, one from general education and one from the major.

PRE/COREQUISITES

A *prerequisite* is a course that must be taken before you can take a more advanced one.
A *corequisite* is a course that must be taken in the same semester.
A *pre- or corequisite* must be taken either before or in the same semester.

Footnotes

[1] Examples of advanced liberal arts courses include SOC 3301 (prerequisite: ECON 1101); SOC 2403 (prerequisite: PSY 1101). In meeting their general education requirements overall, students must take at least one advanced liberal arts course **or** choose two sequential courses in one of the foreign language (FL) course offerings, such as Arabic (ARB), Spanish (SPA), Chinese (CHN), or French (FREN).

[2] Specific courses listed indicate double duty courses, i.e., program degree requirements that also meet general education requirements. Choosing to take advantage of double duty can speed up progress toward graduation and increase elective credits. Consult with an advisor about your options.

[3] A student with an AAS in EMT must take CET 3525; MECH must take CET 3525 or 3550; EET/TCET must take CET 4762.

*Students who have already completed MAT 1575 may select another mathematics or flexible core course instead.

NEW YORK CITY COLLEGE OF TECHNOLOGY

DEGREE MAPS Variations

DEGREE MAP For Bachelor of Technology in Computer Engineering Technology, starting with MAT 650

SUMMER		SEMESTER 1		SEMESTER 2		SEMESTER 3		SEMESTER 4		SEMESTER 5		SEMESTER 6		SEMESTER 7	
MAT 630/650	0	EMT 1111	1	EMT 1220	4	EMT 1255	4	EMT 2455	2	CET 3510	4	CET 3615	4	CET 4705	2
		EMT 1120	1	EMT 1250	4	EMT 2320	5	EMT 2461	2	CET 3525	4	CET 3625	1	CET 4711	2
		EMT 1130	1	MAT 1375	4	EMT 2370	2	EMT 2480L	1	MAT 1575	4	CET 3640	3	MAT 2580	3
		EMT 1150	5	PHYS 1433	4	EMT 2390L	1	PHYS 1434	4	COM 1330^	3	MAT 2680	3	CET 4773	4
		MAT 1275	4			ENG 1121	3	Tech Elective	3	WI	3	Tech Elective	3	ID	3
		ENG 1101	3			FlexCore	3	MAT 1475	4			FlexCore	3	FlexCore	3
Total Credits	0	Total Credits	15	Total Credits	16	Total Credits	18	Total Credits	16	Total Credits	18	Total Credits	17	Total Credits	17

SEMESTER 8	
CET 4805	2
CET 4811	2
CET 4864	4
Tech Elective	4
WI	3
Total Credits	15

DEGREE MAP For Bachelor of Technology in Computer Engineering Technology, starting with MAT 1275

SEMESTER 1		SEMESTER 2		SEMESTER 3		SEMESTER 4		SEMESTER 5		SEMESTER 6		SEMESTER 7		SEMESTER 8	
EMT 1111	1	EMT 1220	4	EMT 1255	4	EMT 2455	2	CET 3510	4	CET 3615	4	CET 4705	2	CET 4805	2
EMT 1120	1	EMT 1250	4	EMT 2320	5	EMT 2461	2	CET 3525	4	CET 3625	1	CET 4711	2	CET 4811	2
EMT 1130	1	MAT 1375	4	EMT 2370	2	EMT 2480L	1	MAT 1575	4	CET 3640	3	MAT 2580	3	CET 4864	4
EMT 1150	5	PHYS 1433	4	EMT 2390L	1	PHYS 1434	4	COM 1330^	3	MAT 2680	3	CET 4773	4	Tech Elective	4
MAT 1275	4			ENG 1121	3	Tech Elective	3	WI	3	Tech Elective	3	ID	3	WI	3
ENG 1101	3			FlexCore	3	MAT 1475	4			FlexCore	3	FlexCore	3		
Total Credits	15	Total Credits	16	Total Credits	18	Total Credits	16	Total Credits	18	Total Credits	17	Total Credits	17	Total Credits	15

DEGREE MAP For Bachelor of Technology in Computer Engineering Technology, starting with MAT 1475 and PHYS 1441

SEMESTER 1		SEMESTER 2		SEMESTER 3		SEMESTER 4		SEMESTER 5		SEMESTER 6		SEMESTER 7		SEMESTER 8	
EMT 1111	1	EMT 1220	4	EMT 2320	5	EMT 2455	2	CET 3510	4	CET 3615	4	CET 4705	2	CET 4805	2
EMT 1120	1	EMT 1250	4	EMT 2370	2	EMT 2461	2	CET 3525	4	CET 3625	1	CET 4711	2	CET 4811	2
EMT 1130	1	EMT 1255	4	EMT 2390L	1	EMT 2480L	1	MAT 2580	4	CET 3640	3	CET 4773	4	CET 4864	4
EMT 1150	5	PHYS 1441/1443	4-5	MAT 1575	4	PHYS 1442/1434	4-5	COM 1330^	3	MAT 2680	3	MAT 2572/CET49XX	4	Tech Elective	4
MAT 1475	4			ENG 1121	3	Tech Elective	3	FlexCore	3	Tech Elective	3	ID	3	WI	3
ENG 1101	3			FlexCore	3	WI	3			FlexCore	3				
Total Credits	15	Total Credits	16-17	Total Credits	18	Total Credits	15-16	Total Credits	17	Total Credits	17	Total Credits	15	Total Credits	13