

**Department of Computer Engineering Technology**  
**Course Checklist for Software Engineering Technology (SET) Bachelor of Science Degree**

First Name:

Last Name:

EMPL ID:

Major: SET

Software Engineering Technology BS Degree Major Courses						Total Degree Credits: ≥120	
Sem.	Code	Course Title	Prerequisite (Pre.) or Corequisite (Co.)	Creds.	Taken?	Which semester?	
1 <sup>st</sup>	CET 1100	Intro to Computer and Software Engineering	Pre/Co: None	2	<input type="checkbox"/>		
	CET 1111	Logic and Problem Solving (co: CET 1111L)	Pre/Co: CET 1100	3	<input type="checkbox"/>		
	CET 1120	Technical Graphics	Pre/Co: None	1	<input type="checkbox"/>		
	CET 1150	Fundamentals of Electrical Circuits (co: CET 1150L)	Pre/Co: MAT 1275CO or MAT 1275 or higher	3	<input type="checkbox"/>		
2 <sup>nd</sup>	CET 1211	Intro to Object Oriented Programming in Software Design	Pre: CET 1111 Pre/Co: MAT 1275CO or MAT 1275 or higher	2	<input type="checkbox"/>		
	CET 1250	Fundamentals of Digital Systems (co: CET 1250L)	Pre: CET 1150	4	<input type="checkbox"/>		
3 <sup>rd</sup>	SET 2330	Cloud Database Fundamentals	Pre: CET 1211 Pre/Co: MAT 1375 or higher	3	<input type="checkbox"/>		
	SET 2350	Computer Architecture	Pre: CET 1250 Pre/Co: MAT 1375 or higher	3	<input type="checkbox"/>		
4 <sup>th</sup>	SET 2430	Algorithmic Design & Data Structures	Pre: CET 1211 Pre/Co: SET 2440	3	<input type="checkbox"/>		
	SET 2440	System Programming	Pre: SET 2350 Pre/Co: SET 2430	3	<input type="checkbox"/>		
<b>Subtotal</b>				<b>27 credits</b>			
General Education Required and Flexible Cores							
1 <sup>st</sup>	ENG 1101	English Composition I (Pre: CUNY read, write proficiency)		3	<input type="checkbox"/>		
	MAT1275, 1275CO or Higher	College Algebra and Trigonometry (or higher)	Pre: CUNY Math proficiency. (Mathematical and Quantitative Reasoning)	4	<input type="checkbox"/>		
2 <sup>nd</sup>	ENG 1121	English Composition II		3	<input type="checkbox"/>		
	MAT 1375 or Higher	Precalculus or higher	MAT 1375's Pre: MAT 1275CO or MAT 1275 or math placement for MAT 1375. (Scientific World)	4	<input type="checkbox"/>		
		Gen Ed Flexible Core (see below)		3	<input type="checkbox"/>		
3 <sup>rd</sup>	MAT 1475	Calculus I		4	<input type="checkbox"/>		
	PHYS 1433 or PHYS 1441	PHYS 1433 General Physics I Algebra-based PHYS 1441 General Physics I Calculus based	Pre: MAT1275CO or MAT1275 or higher; OR Co: MAT1275. (Life and Physical Sciences and WI*) Pre/Co: MAT 1475 or higher. (Life and Physical Sciences and WI*)	4 or 5	<input type="checkbox"/>		
4 <sup>rd</sup>	MAT 1575	Calculus II		4	<input type="checkbox"/>		
		Gen Ed Flexible Core x 2 (see below)		6	<input type="checkbox"/>		
	Gen Ed Flexible Core (Choose 3)	<p>Select three from any three categories <b>(No more than one course selected from the same category)</b></p> <p>(See WI course options on DegreeWorks or College Academic Advisement website)</p> <p><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.</p> <p><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, ARTH1110, ARTH3401, CHN1101, CHIN1102, COM2401, ECON2505, ENG2100, ENG2101, ENG2160, ENG2300, ENG2301, ENG2301, FREN1101, FREN1102, HIS1101, HIS1102, HIS1103, HIS1501, HIS1503, HIS2000, LNG1100, MUS1212, PHIL2121, PRS1461, PRS2202, PRS2211, SOC3301, SPA1101, SPA1102, SPA1301, SPA2201, SPA2202, etc.</p> <p><b>US Experience in its Diversity:</b> AFR1465, AFR1466, AFR1501, AFR1502, AFR2201, AFR2202, AFR3000, ARCH3522, ARTH1104, ECON1101, ECON2403, ENG2180, ENG2190, ENG2190, ENG2200, ENG2201, ENG2250, GOV1101, GOV1102, GOV2402, HIS1110, HIS1111, HIS2405, HIS3208, HIS3209, HIS3310, PRS2501, SOC1104, etc.</p> <p><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.</p>					
<b>Subtotal</b>				<b>35 or 36 credits</b>			
<p><b>WI*:</b> Must complete two courses designated as WI (Writing Intensive), one from General Education courses and one from major courses. See more details on DegreeWorks or College Academic Advisement website, writing intensive section: <a href="https://www.citytech.cuny.edu/advisement/gen-ed.aspx">https://www.citytech.cuny.edu/advisement/gen-ed.aspx</a></p>							

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Sem.	Code	Course Title	Prerequisite (Pre.) or Corequisite (Co.)	Creds.	Taken?	Which Semester?
5 <sup>th</sup>	SET 3510	Software Requirements Engineering	Pre: SET 2430, MAT1475 or higher Pre/Co: SET 3530	3	<input type="checkbox"/>	
	SET 3530	Cloud Computing & Networking	Pre: SET 2430 Pre/Co: SET 3510	3	<input type="checkbox"/>	
6 <sup>th</sup>	SET 3610	Software Architecture & Design	Pre: SET 3510, MAT 1475 or higher	3	<input type="checkbox"/>	
	SET 3630	Cybersecurity Foundations	Pre: CET 3530	3	<input type="checkbox"/>	
		Technical Elective x 1		≥ 3	<input type="checkbox"/>	
7 <sup>th</sup>	SET 4710	Software Testing & Quality Assurance	Pre: SET 3610, MAT1575 or higher	3	<input type="checkbox"/>	
		Technical Electives x 2		≥ 6	<input type="checkbox"/>	
8 <sup>th</sup>	SET 4810	Software Capstone Design	Pre: SET 4710, MAT 1575 or higher	3	<input type="checkbox"/>	
		Technical Electives x 2		≥ 6	<input type="checkbox"/>	
	<b>Technical Electives</b>	<b>Choose any 5 from:</b> CET 4920 Introduction to Computer Vision (4cr), CET4925 Internet of Things (3cr), CET 4910 Digital Image Processing (3cr), CET 4915 Agile Testing of Embedded Software (3cr), CET 4935 Wearable Computing (3cr), CET 4973 Introduction to Artificial Intelligence (3cr), CET 4983 Applied Deep Learning (3cr), SET 4940 Embedded Operating Systems (3cr), SET 4955 Embedded Operating Systems (3cr), SET 4900 Internship in Software Engineering Technology (3cr, Department permission required), or other 4-credits CET4900 series technical electives.				
<b>Subtotal</b>				<b>≥ 33 credits</b>		
General Education (Flexible Cores, College Options, Program-specific Degree Requirements)						
5 <sup>th</sup>	MAT 2572	Probability and Mathematical Statistics I	Pre: MAT 1575. (Program-specific Degree Requirements)	4	<input type="checkbox"/>	
	COM 1330	Public Speaking or higher	Pre: CUNY read, write proficiency. (College Option)	3	<input type="checkbox"/>	
6 <sup>th</sup>	MAT 2580	Introduction to Linear Algebra	Pre/Co: MAT 1575. (Program-specific Degree Requirements)	3	<input type="checkbox"/>	
		Gen Ed College Option – ID course ( <i>see below</i> )		3	<input type="checkbox"/>	
7 <sup>th</sup>		Gen Ed Flexible Core ( <i>see below</i> )		3	<input type="checkbox"/>	
		Gen Ed College Option – Liberal Arts I ( <i>see below</i> )		3	<input type="checkbox"/>	
8 <sup>th</sup>		Gen Ed Flexible Core ( <i>see below</i> )		3	<input type="checkbox"/>	
		Gen Ed College Option – Liberal Arts II ( <i>see below</i> )		3	<input type="checkbox"/>	
	<b>Gen Ed College Option</b>	<b>Interdisciplinary (ID) Courses:</b> AFR3000ID, AFR3001ID, ARTH 2101ID, COM2403ID, CST1102ID, ECON2505ID, ECON2820ID, ENG2170ID, ESCI2000ID, HIS3402ID, HIS3209ID, LIB2205ID, ARCH2205ID, PHIL2202ID, PHIL2203ID, PHYS1002ID, PHYS1010ID, PHYS2443ID, PHYS3600ID, SBS2000ID, SOC2401ID, SOC3302ID, SOC2380ID, THE2280ID, etc For complete list of College Option Liberal Arts courses, refer to College Catalog, DegreeWorks and Pathway Website: <a href="https://www.citytech.cuny.edu/advisement/liberal-arts-courses.aspx">https://www.citytech.cuny.edu/advisement/liberal-arts-courses.aspx</a>				
	<b>Gen Ed Flexible Core (choose two)</b>	<b>Select at least one approved course from the category that has not been taken in the first two years.</b>  (See WI course options on DegreeWorks or College Academic Advisement website)	<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, CHIN1102, COM2401, ECON2505, ENG2100, ENG2101, ENG2160, ENG2300, ENG2301, 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, 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</b>				<b>25 credits</b>		
<b>WI*:</b> Must complete two additional courses designated as WI, one from Gen Ed and one from major courses. 4 WI courses in total are required for the BS degree. See more details on <i>DegreeWorks</i> or College Academic Advisement website, writing intensive section: <a href="https://www.citytech.cuny.edu/advisement/gen-ed.aspx">https://www.citytech.cuny.edu/advisement/gen-ed.aspx</a>						