## **Software Engineering Technology (SET)**

## **Software Engineering Technology (SET)**

The Software Engineering Technology degree program focuses on the design, development, implementation, and maintenance of software used in industry. Along with core math and science classes, SET students gain knowledge of computer operating systems and software development using various programming languages. Graduates are prepared to enter the workforce as skilled computer programmers and systems integrators, and also are well-prepared to enter a Bachelor of Science degree program in engineering, engineering technology, or computer science.

## **Software Engineering Technology (SET)**

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

ENG 101         English Composition         3           IT 110         HTML with CSS and JavaScript         4           IT 111         Database Design and SQL 1         4           MAT 126         Functions and Calculus         4           CIT 190         Career Preparation: Engineering and Information Technologies         1           Semester 2         IT 102         NET Programming 2         4           ENG 10X English Composition Elective         Physics 1: Algebra and Trigonometry-Based         4           ENG 10X English Composition Elective         Physics 1: Algebra and Trigonometry-Based         4           SET 51         C Programming 1         4           SET 251         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4         IT 103         NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           COMM 1XX         3           CULT 110         Social Issues in Technology         2           EET 250         C Programming 3         4           SCT 253 <td< th=""><th>Semester 1</th><th></th><th>Credits</th></td<>	Semester 1		Credits
IT 110         HTML with CSS and JavaScript         4           IT 111         Database Design and SQL 1         4           MAT 126         Functions and Calculus         4           CIT 190         Career Preparation: Engineering and Information Technologies         1           Semester 2           IT 102         .NET Programming 2         4           ENG 10X English         .NET Programming 2         4           SET 51         C Programming 1         4           SET 51         C Programming 1         4           SET 51         C Programming 1         4           Semester 3         SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4           IT 103         .NET Programming 3         4           IT 104         Java Programming 1         4           COMM 1XX         3           Communications         1           Elective         Semester 5           EET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECT 253         C Programming 3         4           SET 253         C Programming 3         4	IT 101	.NET Programming 1	3
IT 111         Database Design and SQL 1         4           MAT 126         Functions and Calculus         4           CIT 190         Career Preparation: Engineering and Information Technologies         1           Semester 2           IT 102         NET Programming 2         4           ENG 10X English Composition Elective         3           PHY 151         Physics 1: Algebra and Trigonometry-Based         4           SET 151         C Programming 1         4           Semester 3         SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4           IT 103         NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3         3           Communications         Elective         SET 252         C Programming 2         4           SET 252         C Programming 2         4         4           Semester 5           EET 101         Electronic Fundamentals 1         4         4           CULT 110         Social Issues in Technology         3         3           EET 253         C Programming 3         4         4	ENG 101	English Composition	3
MAT 126         Functions and Calculus         4           CIT 190         Career Preparation: Engineering and Information Technologies         1           Semester 2           IT 102         .NET Programming 2         4           ENG 10X English Composition Elective         3           Composition Elective           PHY 151         Physics 1: Algebra and Trigonometry-Based         4           SET 291         Pull-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4           IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           Communications         3           Elective         SET 252         C Programming 2         4           Semester 5           Elective         Semester 5         4           CULT 110         Social Issues in Technology         3           CD 1XX Economics         3         3           Elective         5         2           SET 253         C Programming 3         4           SET 259         C Programming 3         5           SET 250         C Prog	IT 110	HTML with CSS and JavaScript	4
CIT 190       Career Preparation: Engineering and Information Technologies       1         Semester 2         IT 102       JNET Programming 2       4         ENG 10X English Composition Elective PHY 151       Physics 1: Algebra and Trigonometry-Based       4         SET 151       C Programming 1       4         Semester 3       SET 291       Full-Time Cooperative Education 1: Software Engineering Technology       2         Semester 4       IT 103       JNET Programming 3       4         IT 161       Java Programming 1       4         COMM 1XX       3       3         COMM 1XX       3       3         Semester 5       Elective       4         SET 252       C Programming 2       4         Semester 5       EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         EEC 1253       C Programming 3       4         SET 290       Software Engineering Technology Capstone       3         Semester 6       SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:       7       7	IT 111	Database Design and SQL 1	4
Semester 2           IT 102         NET Programming 2         4           ENG 10X English Composition Elective PHY 151         Physics 1: Algebra and Trigonometry-Based         4           SET 151         C Programming 1         4           Semester 3         SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4         IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           Communications Elective         SET 252         C Programming 2         4           SET 252         C Programming 2         4           Semester 5         EET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECO 1XX Economics Elective         3         3           SET 253         C Programming 3         4           SET 269         Software Engineering Technology Capstone         3           SET 290         Software Engineering Technology Capstone         3           Semester 6         SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:         70	MAT 126	Functions and Calculus	4
### Composition Elective Physics 1: Algebra and Trigonometry-Based ### SET 151	CIT 190	Career Preparation: Engineering and Information Technologies	1
ENG 10X English Composition Elective       3         PHY 151 Physics 1: Algebra and Trigonometry-Based       4         SET 151 C Programming 1       4         Semester 3       SET 291 Full-Time Cooperative Education 1: Software Engineering Technology       2         Semester 4       11 103 .NET Programming 3       4         IT 161 Java Programming 1       4         COMM 1XX       3         Communications Elective       5         SET 252 C Programming 2       4         Semester 5       4         EET 101 Electronic Fundamentals 1       4         CULT 110 Social Issues in Technology       3         ECO 1XX Economics Elective       3         SET 253 C Programming 3       4         SET 259 Software Engineering Technology Capstone       3         SET 250 Software Engineering Technology Capstone       3         SET 292 Full-Time Cooperative Education 2: Software Engineering Technology       2         SET 292 Full-Time Cooperative Education 2: Software Engineering Technology       2	Semester 2		
Composition Elective         4           PHY 151         Physics 1: Algebra and Trigonometry-Based         4           SET 151         C Programming 1         4           Semester 3         SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4         IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           Communications Elective         SET 252         C Programming 2         4           Semester 5         SET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECC 1XX Economics Elective         SET 253         C Programming 3         4           SET 253         C Programming 3         4           SET 290         Software Engineering Technology Capstone         3           Semester 6         SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:         70	IT 102	.NET Programming 2	4
PHY 151         Physics 1: Algebra and Trigonometry-Based         4           SET 151         C Programming 1         4           Semester 3         SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4         IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         Communications Elective         SET 252         C Programming 2         4           SET 252         C Programming 2         4           CULT 110         Social Issues in Technology         4           CULT 110         Social Issues in Technology         3           EEC 253         C Programming 3         4           SET 290         Software Engineering Technology Capstone         3           Semester 6         SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:         7         7	ENG 10X English		3
SET 151       C Programming 1       4         Semester 3         Semester 4         IT 103       .NET Programming 3       4         IT 161       Java Programming 1       4         COMM 1XX       3         Communications       Elective         SET 252       C Programming 2       4         Semester 5       Semester 5         EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         ECO 1XX Economics       3         Elective       3         SET 253       C Programming 3       4         SET 290       Software Engineering Technology Capstone       3         Semester 6       SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:         Electives	Composition Elective		
Semester 3           SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4         IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           Communications         Elective           SET 252         C Programming 2         4           Semester 5           EET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECO 1XX Economics         1           Elective         SET 253         C Programming 3         4           SET 290         Software Engineering Technology Capstone         3           Semester 6           SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:	PHY 151	Physics 1: Algebra and Trigonometry-Based	4
SET 291         Full-Time Cooperative Education 1: Software Engineering Technology         2           Semester 4           IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           Communications         Elective           SET 252         C Programming 2         4           Semester 5           EET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECO 1XX Economics         Seco 1XX Economics         3           Elective         Set 253         C Programming 3         4           SET 253         C Programming Technology Capstone         3           Semester 6           SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:	SET 151	C Programming 1	4
Semester 4           IT 103         .NET Programming 3         4           IT 161         Java Programming 1         4           COMM 1XX         3           Communications         5           Elective         SET 252         C Programming 2         4           Semester 5         Semester 5         Set 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECO 1XX Economics         Elective           Set 253         C Programming 3         4           SET 290         Software Engineering Technology Capstone         3           Semester 6         SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:         70	Semester 3		
IT 103       .NET Programming 3       4         IT 161       Java Programming 1       4         COMM 1XX       3         Communications Elective       5         SET 252       C Programming 2       4         Semester 5         EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         ECO 1XX Economics Elective       3         EIE 253       C Programming 3       4         SET 290       Software Engineering Technology Capstone       3         Semester 6         SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:         Flectives	SET 291	Full-Time Cooperative Education 1: Software Engineering Technology	2
IT 161       Java Programming 1       4         COMM 1XX       3         Communications       Elective         SET 252       C Programming 2       4         Semester 5         EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         ECO 1XX Economics       Elective         SET 253       C Programming 3       4         SET 290       Software Engineering Technology Capstone       3         Semester 6         SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:	Semester 4		
COMM 1XX         Communications         Elective         SET 252       C Programming 2       4         Semester 5         EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         ECO 1XX Economics       3         Elective         SET 253       C Programming 3       4         Semester 290       Software Engineering Technology Capstone       3         Semester 6         SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:       70	IT 103	.NET Programming 3	4
Communications           Elective         SET 252         C Programming 2         4           Semester 5           EET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECO 1XX Economics         3           Elective         SET 253         C Programming 3         4           SET 290         Software Engineering Technology Capstone         3           Semester 6           SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:           Electives	IT 161	Java Programming 1	4
Elective       SET 252       C Programming 2       4         Semester 5         EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         ECO 1XX Economics Elective       3         SET 253       C Programming 3       4         SET 290       Software Engineering Technology Capstone       3         Semester 6         SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:	COMM 1XX		3
SET 252       C Programming 2       4         Semester 5         EET 101       Electronic Fundamentals 1       4         CULT 110       Social Issues in Technology       3         ECO 1XX Economics Elective       3         SET 253       C Programming 3       4         SET 290       Software Engineering Technology Capstone       3         Semester 6         SET 292       Full-Time Cooperative Education 2: Software Engineering Technology       2         Total Credits:       70			
Semester 5           EET 101         Electronic Fundamentals 1         4           CULT 110         Social Issues in Technology         3           ECO 1XX Economics Elective         3           SET 253         C Programming 3         4           SET 290         Software Engineering Technology Capstone         3           Semester 6           SET 292         Full-Time Cooperative Education 2: Software Engineering Technology         2           Total Credits:         70    Electives		O Province and the O	
EET 101 Electronic Fundamentals 1 CULT 110 Social Issues in Technology  ECO 1XX Economics Elective SET 253 C Programming 3 SET 290 Software Engineering Technology Capstone SET 292 Full-Time Cooperative Education 2: Software Engineering Technology  Total Credits:  Electives		C Programming 2	4
CULT 110 Social Issues in Technology 3 ECO 1XX Economics Elective SET 253 C Programming 3 SET 290 Software Engineering Technology Capstone 3 Semester 6 SET 292 Full-Time Cooperative Education 2: Software Engineering Technology 2 Total Credits: 70  Electives		Flasteria Fundamentala 4	4
ECO 1XX Economics Elective SET 253 C Programming 3 SET 290 Software Engineering Technology Capstone SET 292 Full-Time Cooperative Education 2: Software Engineering Technology Total Credits:  Electives  3 3 3 3 4 5 5 5 5 7 5 6 7 7 6 7 7 7 7 7 7 7 7 7 7			
Elective  SET 253			
SET 290 Software Engineering Technology Capstone 3  Semester 6 SET 292 Full-Time Cooperative Education 2: Software Engineering Technology 2  Total Credits: 70  Electives	Elective		3
Semester 6 SET 292 Full-Time Cooperative Education 2: Software Engineering Technology 2 Total Credits: 70  Electives	SET 253	C Programming 3	4
SET 292 Full-Time Cooperative Education 2: Software Engineering Technology 2  Total Credits: 70  Electives	SET 290	Software Engineering Technology Capstone	3
Total Credits: 70  Electives	Semester 6		
Electives	SET 292	Full-Time Cooperative Education 2: Software Engineering Technology	2
	Total Credits:		70
English Composition Elective	<b>Electives</b>		
English Composition Elective	English Composition	on Elective	

3	•••••	
ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3
Communic	tion Elective	

## Software Engineering Technology (SET)

2

COMM 105	Interpersonal Communication	3
COMM 110	Public Speaking	3
<b>Economics Elective</b>		
ECO 105	Principles of Microeconomics	3
ECO 110	Principles of Macroeconomics	3