

COGSWELL POLYTECHNICAL COLLEGE**Software Engineering**

CPC Credits

Engineering Courses (65 Credits)

4	SE 110	C Programming
4	SE 212	Java Programming
4	SE 310	Data Structures and Algorithms
35	Upper Division Credits	

Total SE credits:

Innovation Management (6 Credits)

General Education (59 Credits)

3	EN 100	Composition
3	HU 170	US History
	or SS 100	US Government
3	SS 123	World Cultures
6	HU	Electives
3	SS	Elective
6	EN/HU/SS	Electives
4	MA 133	Calculus I
4	MA 134	Calculus II
4	MA 235	Calculus III
4	SC 145	College Physics I
4	SC 155	College Physics II

Total GE credits:

Digital Arts Engineering

Basic Courses in SE (16 Credits)

4	SE 110	C Programming
4	SE 212	Java Programming
4	SE 310	Data Structures

Basic Courses in Digital Art (15 Credits)

3	CV 101	2D Design and Color
3	CV 125	Intro to Drawing

CITY COLLEGE OF SAN FRANCISCO

Recommended Comparable Courses

Transferred Credits

3	CS 110B	Programming Fundamentals I
3	CS 111B	Program. Fund. I /Java
3	CS 110C	Programming Fundamentals II

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3	ENGL 1A	University-Parallel Reading and Comp.
	HIST 17A and 17B (6 cr)	The United States
3	or POLS 1 (3cr)	or American Government
3	ANTH 3	Intro to Social and Cultural Anthro.
6	Humanities Electives*	
3	Social Sciences Electives*	
6	English, Humanities or Soc. Sci. Electives*	
4	MATH 110A	Calculus I
4	MATH 110B	Calculus II
4	MATH 110C	Calculus III
6	PHYC 4A, 4AL, 4B, & 4BL	Physics for Sci. and Eng.
6	PHYC 4B, 4BL, 4C, & 4CL	Physics for Sci. and Eng.

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3	CS 110B	Programming Fundamentals I
3	CS 111B	Program. Fund. I /Java
3	CS 110C	Programming Fundamentals II

6	DSGN 101 and either	Design Fundamentals and either
	GRPH 98A or PHOT 60A	Digital Imaging or Beginning Photoshop
3	ART 130A	Basic Drawing

3 CV 260 Intro to Photography

3 PHOT 51 *and either* Beginning B&W Photo *and either*
GRPH 98A or PHOT 60A Digital Imaging or Beginning Photoshop

Total SE/CV credits 21

Concentration Courses (40 Credits)

General Education Courses (59 Credits)

3 EN 100 English Composition
3 HU 120 History of Western Art
3 HU 170 US History
or SS 100 US Government
3 HU 227 Film History
3 SS 123 World Cultures
3 SS Elective
6 EN/HU/SS Electives
4 MA 133 Calculus I
4 MA 134 Calculus II
4 MA 235 Calculus III
4 SC 145 College Physics I
4 SC 155 College Physics II

3 ENGL 1A University-Parallel Reading and Comp.
3 ART 102 Western Art History
HIST 17A *and* 17B (6 cr) The United States
3 or POLS 1 (3cr) or American Government
3 FILM 20B Film History
3 ANTH 3 Intro to Social and Cultural Anthro.
3 Social Sciences Elective *
6 English, Humanities or Social Sciences Electives*
4 MATH 110A Calculus I
4 MATH 110B Calculus II
4 MATH 110C Calculus III
6 PHYC 4A, 4AL, 4B, & 4BL Physics for Sci. and Eng.
6 PHYC 4B, 4BL, 4C, & 4CL Physics for Sci. and Eng.

Total GE credits: 48

Electrical Engineering

Engineering Courses (62 Credits)

4 SE 110 C programming
4 EE 270 Intro to Circuits
54 Upper Division Courses

3 CS 110B Programming Fundamentals I
4 ENGN 20 & 20L Intro to Circuit Analysis & Lab

Total EE credits: 7

General Education (66 Credits)

3 EN 100 English Composition
3 HU 170 US History
or SS 100 US Government
3 SS 123 World Cultures
6 HU Electives
3 SS Elective
6 EN/HU/SS Electives
4 MA 133 Calculus I
4 MA 134 Calculus II

3 ENGL 1A University-Parallel Reading and Comp.
HIST 17A *and* 17B (6 cr) The United States
3 or POLS 1 (3cr) or American Government
3 ANTH 3 Intro to Social and Cultural Anthro.
6 Humanities Electives*
3 Social Sciences Electives*
6 English, Humanities or Soc. Sci. Electives*
4 MATH 110A Calculus I
4 MATH 110B Calculus II

4	MA 235	Calculus III	4	MATH 110C	Calculus III
4	SC 145	College Physics I	6	PHYC 4A, 4AL, 4B, & 4BL	Physics for Sci. and Eng.
4	SC 155	College Physics II	6	PHYC 4B, 4BL, 4C, & 4CL	Physics for Sci. and Eng.
7	SC	Electives	7	Science Electives*	
Total GE credits:			55		

* IGETC and CSU GE courses in related areas are recommended for all electives