

Minor in Computer Engineering

The purpose of the minor in Computer Engineering is to give students who are interested in the computer technology a good basic knowledge in software development, digital electronics, computer organizations, and microprocessor applications. Additional knowledge in computer networks, multimedia systems, real-time systems, etc. may be required through electives. Students interested in the Computer Engineering minor must meet with the Program Head of Electrical and Computer Engineering and complete the Computer Engineering Minor Program Approval Form. Revision of the form requires the approval of the Program Head.

All coursework used to satisfy the requirements of the minor must be completed with a minimum grade point average of 2.0.

Pre-requisite Requirements:

The minor is intended for students who have satisfied the following prerequisite requirements:

Math 226	Calculus I (4)
Math 227	Calculus II (4)
Math 228	Calculus III (4)
Math 245	Elementary Differential Equations and Linear Algebra (3)
Phys 220/222	General Physics with Calculus I & Lab (4)
Phys 230/232	General Physics with Calculus II & Lab (4)
ENGR 212	Introduction to UNIX and Linux for Engineers (2)

The minor may be satisfied by a minimum of 21 units (not including prerequisite units) distributed as follows:

Core requirements	15 units
ENGR 213	Introduction to C Programming for Engineers (3)	
ENGR 205	Electric Circuits (3)	
ENGR 206	Circuits and Instrumentation Lab (1)	
ENGR 356	Digital Design (3)	
ENGR 357	Digital Design Lab (1)	
ENGR 478	Design with Microprocessors (4)	

Electives **6 units**

Approved upper division Computer Engineering courses. No upper division course from the major can be double-counted towards meeting the elective requirements of the minor or second major. There must be prior approval from the program head.

Total (not including prerequisites units) **21 units**

To earn a minor in Computer Engineering, a student must complete at least 12 of the required 21 core and elective units at SFSU. All courses in the minor must be taken with letter grades (CR/NC is not acceptable).

* Along with this form ensure you submit "San Francisco State University Request for Change/Declaration of Undergraduate Minor" form to have signed by Director along with Unofficial SFSU Transcripts and a letter of interest.

**School of Engineering
San Francisco State University**

Computer Engineering Minor Program Approval Form

Student name: _____ Major: _____

Address: _____ SF ID: _____

_____ Email: _____

_____ Telephone: _____

Prerequisite Courses	Units	Semester	Grade
Math 226 Calculus I	4		
Math 227 Calculus II	4		
Math 228 Calculus III	4		
Math 245 Elementary Differential Equations & Linear Algebra	3		
Phys 220/222 General Physics with Calculus I & Lab	4		
Phys 230/232 General Physics with Calculus II & Lab	4		
ENGR 212 Introduction to UNIX & Linux for Engineers	2		
Core Requirements (15 units)			
ENGR 213 Introduction to C Programming for Engineers	3		
ENGR 205 Electric Circuits	3		
ENGR 206 Circuits and Instrumental Lab	1		
ENGR 356 Digital Design	3		
ENGR 357 Digital Design Lab	1		
ENGR 478 Design with Microprocessors	4		
Electives (6 units)			
Total (21 units) (Not including prerequisites)			

Program Head Approval: _____ Date: _____

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