Major GPA

- Major Courses:
 - All engineering, Science & Math courses (except Engr 195A/B)
 - listed under writing assessment, Preparation for the Major,
 Requirements for the Major, and technical electives (highlighted next)
- Major GPA calculation
 - Based on SJSU unofficial transcript
 - Based on catalog assigned
 - Math 3oP and Math 3oPL count as 3 units
 - Math 19 and Phys 49 do not count
 - Grade Forgiveness (GF) :
 - 2 attempts lower grade is waived
 - > 2 attempts all attempts count except 1st

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Computer Engineering

BS - Computer Engineering

This degree program meets certain University Requirements through approved major modifications. Please see the <u>Major Exceptions</u> area in the Policy and Procedures section of this catalog to identify the specific adjustment/s for this degree program or contact your major advisor for more details.

Course Requirements					
University Graduation Requirements				27	
Core Lower Division General Education			9		
Of the 39 units required by the university, 30	units may be satisfied	d by			
coursework outlined below. Courses that mee	GE Areas A1, A2,	A3 or B4			
must be passed with a ${}^{*}C^{*}$ or better to meet th major advisor for details.	e requirement. Const	alt with			
Upper Division General Education			3		
Of the 9 units required by the university, 6 un coursework outlined below. Consult with maj	1970 - H. B. B. B. B. H. B.				
American Institutions			12		
Coursework shown below for the 6 units requ	ired by the university	are			
double counted within GE. Consult with majo	r advisor for details.				
AMS 001A. American Civilization	M4	6			
AMS 001B. American Civilization	M5	6			
Physical Education			0		
Graduation Writing Assessment Requirem	eat		3		
At SJSU, students must pass both the SJSU W	riting Skills Test (W	ST) and a			
100W course. For additional information on the	he WST, please see				
http://testing.sisu.edu/wst. Exceptions to the C		at			
http://info.sisu.edu/gwar.html.	₩				

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A grade of C or better (C- not accepted) is required to meet graduation requirement. **ENGR 100W.** Engineering Reports 3 Z+RPreparation for the Major 30 Students must complete the following courses with "C" or better to graduate: MATH 030, MATH 031, PHYS 050, PHYS 051. The remaining courses in Preparation for the Major must be completed with "C-" or better to graduate. **BIOL 010.** The Living World B2 3 ISE 130. Engineering Probability and Statistics 3 MATH 030. Calculus 3 **B4** MATH 031. Calculus II 4 **B4** MATH 032. Calculus III 3 **B4** MATH 042. Discrete Mathematics 3 MATH 123. Differential Equations and Lines 3 Algebra PHYS 050. General Physics/Mechanics B1+B3 4 PHYS 051. General Physics/Electricity and 4 B1+B3 Magnetism Requirements of the Major 66 Students must complete all the courses in Core Courses, Required Courses and Approved Upper Division Electives sections with "C-" or better to graduate. **Core Courses** 13 **CMPE 030.** Programming Concepts and Methodology 3 **CMPE 050**. Object-Oriented Concepts and 3 Methodology **ENGR 010**. Introduction to Engineering 3 Ε EE 097. Introductory Electrical Engineering 1 Laboratory EE 098. Introduction to Circuit Analysis 3 **Required Courses** 47 **CMPE 102.** Assembly Language Programming 3 **CMPE 110.** Electronics for Embedded Systems 3 CMPE 124. Digital Design I 3 CMPE 125. Digital Design II 3 CMPE 126. Algorithms and Data Structure Design 3 3 **CMPE 127.** Microprocessor Design I CMPE 130. Advanced Algorithm Design 3 **CMPE 131.** Software Engineering I 3 CMPE 140. Computer Architecture and Design 3 **CMPE 142.** Operating Systems Design 3 <u>CMPE 146.</u> Real-Time Embedded System Co-Design 3 3 **CMPE 148.** Computer Networks I CMPE 152. Compiler Design 3 **CMPE 195A.** Senior Design Project I 2 <u>S</u> **CMPE 195B.** Senior Design Project II 3 V EE 101. Circuits Concepts and Problem Solving 1

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ENGR 195A. Global and Social Issues in Engineering SENGR 195B. Global and Social Issues in Engineering VENOTE: Must complete CMPE 195A/B and ENGR 195 A/B with C or	1 1	
Better to meet GE Area requirements. Approved Upper Division Electives Selected in consultation with the student's advisor		6
Total Units:		120