Electrical Engineering (SJSU), B.S. (128 Credits)
ISTM-B-FM-004
(Applicable to Students Admitted in the Academic Year 2026)

Required To earn 69 credits

1st.

Semester 1			Semester 2		
CourseNum	Course name	credit	CourseNum	Course name	credit
ISTM020	PUBLIC SPEAKING FOR NONNATIVE SPEAKERS	3	ISTM001	ENGLISH WRITING	3
ISTM114	ANALYTIC GEOMETRY AND CALCULUS I	4	ISTM118	ANALYTIC GEOMETRY AND CALCULUS II	4
ISTM115	MODERN MECHANICS	4	ISTM121	ADVANCED C PROGRAMMING	3
ISTM116	PROGRAMMING APPLICATIONS FOR ENGINEERS	3	ISTM122	FUNDAMENTALS OF ELECTROMAGNETISM	4
ISTM117	GENERAL CHEMISTRY(1)	4	ISTM143	INNOVATION PROJECT (2)	3
ISTM142	INNOVATION PROJECT (1)	3	ISTM163	LOGIC DESIGN	3
ISTM158	GENERAL CHEMISTRY (1) SEMINAR	1			

2nd.

Semester 1			Semester 2		
CourseNum	Course name	credit	CourseNum	Course name	credit
ISTM210	MULTIVARIATE CALCULUS	4	ISTM119	INTRODUCTION TO MATLAB PROGRAMMING	2
ISTM239	WAVE, HEAT&LIGHT	4	ISTM215	ORDINARY DIFFERENTIAL EQUATION	3
ISTM249	ELECTRICAL ENGINEERING FUNDAMENTALS I	3	ISTM216	LINEAR ALGEBRA	3
ISTM251	ELECTRICAL ENGINEERING FUNDAMENTALS I LAB	1	ISTM250	ELECTRICAL ENGINEERING FUNDAMENTALS II	3

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ISTM409	CRITICAL THINKING	3	ISTM252	ELECTRICAL ENGINEERING FUNDAMENTALS II LAB	1			

Elective To earn at least 0 credits

1st.

Semester 1			Semester 2					
CourseNum	Course name	credit	CourseNum	Course name	credit			
ISTM133	ARTS OF ASIA	3	ISTM123	ASIAN AMERICAN MEDIA REPRESENTATION AND POPULAR CULTURE	3			
ISTM166	INTRODUCTION TO PYTHON PROGRAMMING	3						

2nd.

Semester 1			Semester 2					
CourseNum	Course name	credit	CourseNum	Course name	credit			
ISTM136	ASIAN AMERICANS IN U.S. HISTORY(1)	3	ISTM137	ASIAN AMERICANS IN U.S. HISTORY(2)	3			
ISTM173	POP AND ROCK IN THE U.S.	3	ISTM253	PYTHON FOR DATA SCIENCE	3			
ISTM214	DIGITAL SYSTEM DESIGN	4	ISTM257	MACHINE STRUCTURES	3			
ISTM269	ELEMENTARY SPANISH	4	ISTM268	LINEAR SYSTEM ANALYSIS	3			
			ISTM453	ESSENTIALS OF U.S. & CALIFORNIA GOVERNMENT	3			

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Graduation credits：128 credits
General education foundation course credits： 0 credits
General education elective course credits： 0 credits
Major required course credits： 69 credits
Major elective course credits： 0 credits
Interdisciplinary course credits： 59 credits

Guidelines for Program Completion：

Management Unit：International School of Technology and Management/SJSU-FCU 2+2 Bachelor's Program in Electrical Engineering