

		Tentative Schedule					Mechanical Engineering Area		
		2026 Spring	2026 Fall	2027 Spring	2027 Fall	2028 Spring	Mechanical System Design	Thermal-fluid System Design	Mechatronic System Design
ME 110	Manufacturing Processes		1		1		***	**	**
ME 131	Artificial Intelligence in Mechanical Engineering		1		1		***	**	**
ME 136	Design for Manufacturability	1		1		1	***	*	*
ME 149	Engineering Acoustics			1			**	**	**
ME 160	Introduction to Finite Element Method	1	1	1	1	1	***	***	*
ME 165	Computer-Aided Design in ME	1	1	1	1	1	***	*	*
ME 170	Solar Energy Engineering	1				1	*	**	*
ME 171	Energy Management in Manufacturing		1		1		*	***	*
ME 172	Alternative and Renewable Energy Resources			1			*	**	*
ME 181	Fundamentals of Biosensors	1			1		*	*	**
ME 183	HVAC Systems Design	1		1		1	*	***	*
ME 187	Automatic Control Systems Design	1		1		1	*	**	***
ME 189	Microelectromechanical Systems and Microfluidics		1			1	**	***	*
ME 192	Robotics and Manufacturing Systems		1		1		*	*	***

200-level ME classes (except ME 291) will count as technical electives. Link: https://www.sjsu.edu/me/docs/2024_MSME_future_courses.pdf

Below are courses from other departments that have been pre-approved as technical electives for BSME students. However, any other non-ME courses not listed here must be approved by a BSME advisor in order to count toward ME technical electives. Note, lower-division courses cannot count toward technical electives and at least one of the technical electives you take must be an ME course.

AE 114 - Aerospace Structures	CMPE 125 - Digital Design II	Highly Recommended: *** Recommended: **
AE 167 - Aerospace Propulsion	CMPE 120 - Computer Organization and Architecture	
ISE 102 - Engineering Economic Systems	CMPE 126 - Algorithms and Data Structure Design	
ISE 130 - Engineering Probability and Statistics	MATE 131 - Fundamentals of Additive Manufacturing	
ISE 151 - Managing Engineering	MATE 153 - Electric, Optical, and Magnetic Properties	
CE 170 - Principles of Environmental Engineering	MATE 175 - Biomaterials	
CHE 162 - Engineering Statistics and Analysis	MATH 133B Partial Differential Equations	
CMPE 102 - Fundamentals of Embedded Software	MATH 161A - Probability and Statistics	
CMPE 124 - Digital Design I	MATH 178 - Mathematical Modeling	
BME 165 - Applied Engineering Biomechanics	ENGR 197 - Co-operative Education Project	
CE 150 - Introduction to Hydrology and Hydraulics	EE/MATE 129 - Introduction to Integrated Circuits Processing and Design	

**Last revision
May 9, 2025**