

## ME Department Electives 2025-2026

### Fall 2025

BIOE 120A	Molecular Bioengineering	Stowers, Ryan
CHEM 109A	Organic Chemistry	TBD
ECE 147A	Control Systems	Teel, Andrew
ECE/ME 179P	Introduction to Robotics: Planning & Kinematics	Marcucci, Tobia
ECE/ME 141A	Intro to Nanoelectromechanical & Microelectromechanical Systems	Pennathur, Sumita
ECE/ CMPSC 181	Intro Computer Vision	TBD
ENGR 101	Engineering Ethics	TBD
ENGR 195A	Multidisciplinary Capstone	Susko, Tyler
MATRL 100A	Structure and Properties I	TBD
ME 112	Energy	Matthys, Eric
ME 125JS	Special Topics: Lithium-ion Batteries	Sakamoto, Jeff
ME 125OK	Special Topics: Soft Mechanics - Design & Application	Kodio, Ousmane
ME 125RA	Special Topics: Radiative Energy Transfer	Bennett, Ted
ME 125TD	Special Topics: Advanced Engineering Thermodynamics	Bolin, Liao
ME 125	Special Topics: Interfacial Phenom	Zhu, Yangying
ME 128	Design of Biomedical Devices	Laguet, Stephen
ME 140A	Numerical Analysis in Engineering	Meiburg, Eckart
ME 154	Design & Analysis of Structures	McMeeking, Robert
ME 157/257	Introduction to Multiphysics Stimulation	Meinhart, Carl
ME 158	Computer Aided Design & Manufacturing	Chamber, Ryan
ME 167	Structural Analysis	Yang, Henry
ME 179L	Introduction to Robotics: Design Laboratory	Marks, Trevor
ME/ MATRL 185	Materials in Engineering	Beyerlein, Irene
TMP 120	Business Strategy	TBD
TMP 122	Entrepreneurship	TBD

### Winter 2026

BIOE 120B	Cellular Bioengineering	Stowers, Ryan
CHEM 109A	Organics Chemistry	TBD
CHEM 123	Fundamentals of Environmental Chemistry	TBD
ECE/ CMPSC 181	Intro Computer Vision	TBD
ENGR 101	Engineering Ethics	TBD
ENGR 195B	Multidisciplinary Capstone	Susko, Tyler
MATRL 100B	Structure and Properties II	TBD
ME 102	Finite Elements Analysis of Heat Transfer & Fluid Flow w/ COMSOL	Matthys, Eric
ME 125ED	Special Topics: Bio-Inspired Design in Fluid Mechanics	Dressaire, Emilie
ME 125EH	Special Topics: Soft Robotics	Hawkes, Elliot
ME 125FA	Special Topics: Failure Analysis	Daly, Samantha
ME 125KF	Special Topics: Design & Construction of Scientific Apparatus	Fields, Kirk
ME 125MC	Special Topics: MEMS Characterization	Valentine, Megan
ME 125RM	Special Topics: Chemo-Mechanics	McMeeking, Robert
ME 127	Introduction to Mechanisms	Tsai, Geoff
ME 135	Wind & Tidal Extraction	Luzzatto-Fegiz, Paolo
ME 158	Computer Aided Design & Manufacturing	Chamber, Ryan
ME 159	Introduction to Design Optimization	Meinhart, Carl Petzold, Linda
ME 163	Engineering Mechanics: Vibrations	Bamieh, Bassam
ME/MATRL 186A	Manufacturing & Materials	Oropeza, Daniel
TMP 120	Business Strategy	TBD
TMP 122	Entrepreneurship	TBD

\* These Electives may change frequently throughout the year.

**Spring 2026**

<b>CHEM 109A</b>	<b>Organics Chemistry</b>	<b>TBD</b>
<b>ECE/ME 141B</b>	<b>MEMS: Processing &amp; Device Characterization</b>	<b>Pennathur, Sumita</b>
<b>ECE 147C/ME 155C</b>	<b>Control System Design Project</b>	<b>TBD</b>
<b>ECE/ME 179D</b>	<b>Introduction to Robotics: Dynamics &amp; Control</b>	<b>Bly, Katie</b>
<b>ENGR 101</b>	<b>Engineering Ethics</b>	<b>TBD</b>
<b>ENGR 195C</b>	<b>Multidisciplinary Capstone</b>	<b>Susko, Tyler</b>
<b>ENV S 105</b>	<b>Renewable Energy</b>	<b>TBD</b>
<b>ME 125MV/225MV</b>	<b>Special Topics: Wicked Problems</b>	<b>Valentine, Megan</b>
<b>ME 125YV</b>	<b>Special Topics: Vehicle Dynamics</b>	<b>Visell, Yon</b>
<b>ME 129</b>	<b>Manufacturing &amp; Geometric Dimensioning &amp; Tolerancing</b>	<b>Tsai, Geoff</b>
<b>ME 133/233</b>	<b>Renewable Energy Technologies</b>	<b>Liao, Bolin</b>
<b>ME 134</b>	<b>Advanced Thermal Science</b>	<b>Matthys, Eric</b>
<b>ME 151C</b>	<b>Thermosciences 3</b>	<b>Zhu, Yangying</b>
<b>ME 155A</b>	<b>Control System Design</b>	<b>Yeung, Enoch</b>
<b>ME 166</b>	<b>Advanced Strength of Materials</b>	<b>Daly, Samantha</b>
<b>ME W 167</b>	<b>Structural Analysis</b>	<b>Yang, Henry</b>
<b>ME 180/280</b>	<b>Crystalline Defects</b>	<b>Beyerlein, Irene</b>
<b>ME/MATRL 186B</b>	<b>Introduction to Additive Manufacturing</b>	<b>Oropeza, Daniel</b>
<b>TMP 120</b>	<b>Business Strategy</b>	<b>TBD</b>
<b>TMP 122</b>	<b>Entrepreneurship</b>	<b>TBD</b>

\* These Electives may change frequently throughout the year.