Robotics Engineering Electives

- AM 114 Introduction to Dynamical Systems
- AM 147 Computational Methods and Applications
- CMPM 146 Game AI
- CSE 102 Introduction to Analysis of Algorithms
- CSE 103 Computational Models
- CSE 106 Applied Graph Theory and Algorithms
- CSE 110A Fundamentals of Compiler Design I
- CSE 110B Fundamentals of Compiler Design II
- CSE 111 Advanced Programming
- CSE 112 Comparative Programming Languages
- CSE 113 Parallel and Concurrent Programming
- CSE 115A Intro to Software Engineering
- CSE 118 Mobile Applications
- CSE 120 Computer Architecture
- CSE 122 Introduction to VLSI Digital System Design
- CSE 125 Logic Design with Verilog
- CSE 131 Introduction to Operating Systems
- CSE 132 Computer Security
- CSE 138 Distributed Systems
- CSE 140 Artificial Intelligence
- CSE 142 Machine Learning
- CSE 165 Human-Computer Interaction
- CSE 150/L Introduction to Computer Networks and Laboratory
- CSE 151/L Advanced Computer Networks and Laboratory
- CSE 156/L Network Programming and Laboratory
- CSE 160/L Introduction to Computer Graphics and Laboratory
- CSE 161/L Introduction to Visualization and Laboratory
- CSE 167 Mobile Sensing and Interaction
- CSE 180 Database Systems I
- CSE 181 Database Systems II
- CSE 183 Web Applications
- CSE 276 Optimization Theory and Applications
- ECE 102/L Properties of Materials and Laboratory
- ECE 130/L Introduction to Optoelectronics and Photonics and Laboratory
- ECE 135/L Electromagnetic Fields and Waves and Laboratory
- ECE 145 Estimation and Introduction to Control of Stochastic Processes
- ECE 151 Communications Systems
- ECE 152 Introduction to Wireless Communications
- ECE 153 Digital Signal Processing
- ECE 163 Introduction to Small-Scale UAV Theory and Practice
- ECE 171/L Analog Electronics and Laboratory
- ECE 172 Advanced Analog Circuits
- ECE 173 High Speed Digital Design and Laboratory
- ECE 175/L Energy Generation and Control and Laboratory
- ECE 193 Field Study (with department approval)
- ECE 198 Individual Study Research (with department approval)

Students may also use a second course from the Advanced Robotics Elective list to fulfill the elective requirement.