

CONCENTRATIONS (select one)

General (21-22)

ME 428 Senior Design Project I	2
ME 429 Senior Design Project II	2
ME 430 Senior Design Project III	2
EE 255 Energy Conversion Electromagnetics	3
EE 295 Energy Conversion Electromagnetics Laboratory	1
Technical Electives ^{1,2,3} <i>Select from the following:</i> Select at least 8 units from the following ME courses: ME 305, 359, 401, 402, 405, 410, 412, 415, 416, 423, 431, 434, 435, 436, 441, 442, 443, 444, 450, 456, 457, 458, 488, 506, 507, 517, 518, 540, 541, 542, 552, 553, 554, 556, 579; ME/CE 404; ME 501/CE 511; ME 503/CE 513; ME/CE 504; ENGR 311 Select 3 to 4 units of non-ME courses from: Any upper division or graduate level course in the College of Engineering with the exception of GE Area F, senior project, thesis, special problems, and coop courses.	11-12

Manufacturing (21-23)

IME 327 Test Design and Analysis in MFGE	4
Choose one of the following emphasis areas: Mechanical Manufacturing IME 330 Fundamentals of MFGE IME 450 Manufacturing Process and Tool Engr Electronics Manufacturing IME/MATE 458 Microelectronics/Electronics Packaging MATE 430 Micro/Nano Fabrication MATE 435 Microfabrication Lab	8
Design and Manufacturing Elective <i>Select from the following:</i> IME 330 ⁴ , 335, 356, 416, 418, 428, 430, 457; IME/MATE 458 ⁴ , 527, 543; MATE 430 & 435 ⁴ , 440 & 445; ME 305, 412	3-5
ME 428 Senior Design Project I	2
ME 429 Senior Design Project II	2
ME 430 Senior Design Project III	2

Heating, Ventilating, Air-Conditioning and Refrigerating (21)

ME 359 Fundamentals of HVAC Systems	4
ME 456 HVAC Air and Water Distribution System Design	4
ME 457 Refrigeration Principles and Design	4
ME 458 Building Heating and Cooling Loads	4
ME 459 HVAC Senior Design Project I	3
ME 460 HVAC Senior Design Project II	2

Mechatronics (21-22)

ME 305 Introduction to Mechatronics	4
ME 405 Mechatronics	4
ME 423 Robotics: Fundamentals and Applications	4
ME 428 Senior Design Project I	2
ME 429 Senior Design Project II	2
ME 430 Senior Design Project III	2
Select from ⁵ : IME 356, 416; ME 506, 507	3-4

¹ Consultation with advisor is recommended prior to selecting technical electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

² ME 470, ME 471, ME 570 and ME 571 are variable topics courses and may or may not count as ME electives. Please contact instructor for additional information. A course substitution form is required.

³ ME 400 and ME 500 are independent study classes and may be acceptable for technical elective credit. A course substitution form is required.

⁴ If not taken as part of the emphasis area. Courses cannot be double counted.

⁵ Elective based on interests of students.