

Elective Category (number of classes required)	Permitted Courses	Suggested Course(s) by Area		
		Communications	Telemetry	Digital Signal Processing
Statistics (1)	IE 310 - Continuous Quality Improvement STAT 371 - Statistics for Engineers	STAT 371		
Mathematics (1)	MATH 330 - Discrete Mathematics MATH 331 - Intro. to Modern Algebra MATH 332 - Intro. to Modern Analysis MATH 377 - Intro. to Numerical Methods MATH 471 - Complex Variables MATH 472 - Fourier Series & Boundary Value Problems MATH 473 - Calculus of Variations MATH 480 - Vector Spaces and Modern Algebra MATH 481 - Modern Algebra I STAT 412 - Statistics for Engineers & Scientists II STAT 470 - Probability: Theory & Applications STAT 480 - Statistics: Theory & Applications HON 411 - Great Theorems: The Art of Mathematics ME 328 - Engineering Analysis I	MATH 471	STAT 412	MATH 471
Engineering (1)	CHE 201 - Chemical Process Calculations CHE 361 - Engineering Materials CHE 424 - Petroleum Engineering CE 233 - Mechanics - Statics CE 265 - Environmental Science CE 301 - Mechanics of Materials CE 331 - Hydraulics CE 315 - Determinate Structures CE 356 - Environmental Engineering IE 311 - Engineering Data Analysis IE 365 - Quality Control IE 413 - Engineering Operations Research I IE 423 - Operations Research II ME 234 - Mechanics - Dynamics ME 240 - Thermodynamics ME 329 - Engineering Analysis II ME 338 - Fluid Mechanics ME 453 - Internal Combustion Engines	IE 413	IE 311	IE 413

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		Communications	Telemetry	Digital Signal Processing
Physics (2)	PHYS 215 and 216 PHYS 213 and 217	PHYS 213 and PHYS 217		
Technical (1)	Any allowable Math, Technical, Breadth, or Depth Elective PHYS 315 - Modern Physics for Engineers PHYS 390 - Modern Physics any Physics > 400 CHEM 112 any Chemistry > 400 except Chem 442	MATH 480	EE 491	MATH 480
Breadth (3)	EE 321 - Electronics II EE 370 - Optics I EE 395 - Digital Signal Processing EE 415 - Electromagnetics II EE 431 - Power Systems II EE 361 - Digital Logic Design EE 476 - Computer Control Systems EE 484 - Intro. to VLSI EE 496 - Intro. to Communications I	EE 395 EE 496 EE 415	EE 395 EE 496 EE 321	EE 395 EE 496 EE 484
Depth (1)	EE 363 - Computer Systems Architecture EE 370 - Optics I Any EE > 400	EE 497	EE 497	EE 492
Capstone (6 credits)	6 credits after the Breadth & Depth Elective have been completed	EE 498 EE 499		