

**FALL:**  
Swinburne, Australia  
TECNUN, Spain  
Lucerne, Switzerland  
CEA Madrid, Spain

**SPRING:**  
Munich, Germany

**FALL:**  
Chalmers, Sweden  
KTH, Sweden  
Lucerne, Switzerland  
TECNUN, Spain  
Swinburne, Australia

Updated 6/14/2017

FRESHMAN			SOPHOMORE			JUNIOR		SENIOR					
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring		
Intro to ME I <b>ME 128<sup>^</sup> (1)</b> (1st quarter freshman year)	Intro. to ME II <b>ME 129<sup>^</sup> (1)</b> (ME 128, 2nd quarter. Concur: ME 163)  Orientation to ME <b>ME 163<sup>^</sup> (1)</b> (Concur: ME 129)	Introduction to ME III  <b>ME 130<sup>^</sup> (1)</b> (ME 129, 3rd quarter)	Engineering Statics  <b>ME 211 (3)</b> (MATH 241I, PHYS 131 or 141)	Engineering Dynamics  <b>ME 212 (3)</b> (MATH 241; ME 211 or ARCE 211)	Philosophy of Design  <b>ME 234 (3)</b> (Soph standing)	Intermediate Dynamics  <b>ME 326 (4)</b> (ME 212; CSC 231 or 234, MATH 244I)	Design for Strength & Stiffness  <b>ME 328 (4)</b> (BMED 212 or ME 234; CE 207; CSC 231 or 234; MATE 210; ME 212 & 251; IME 141I or ITP-341I)	Mechanical Systems Design  <b>ME 329 (4)</b> (ME 328)	Mechanical Control Systems  <b>ME 422 (4)</b> (ME 318)	<b>Take concurrently:</b> Life Science for Eng <b>BIO 213 (2)</b> (MATH 142, Recom: CHEM 124) & Bioeng Fundamentals <b>BMED 213 (2)</b> (MATH 142, Recom: CHEM 124) [B2]		Thermal System Design  <b>ME 420 (4)</b> (ME 303; ME 347; & ME 343 or 350)	
Manufacturing Processes: Materials Joining <b>IME 142 (2)</b>			Intro to Detailed Design w/ Solid Modeling  <b>ME 251 (2)</b> (ME 130 or 228, Recom: IME 143)			Thermodynamics I  <b>ME 302 (3)</b> (ME 212 & PHYS 132)		Thermodynamics II  <b>ME 303 (3)</b> (ME 302)		Heat Transfer  <b>ME 350 (4)</b> (CPE/CSC 101 or CSC 231 or 234; MATE 360 & 380, or ME 236 & 302 & 341)		<b>Senior Design Project I</b>  <b>ME 428 (2)<sup>1</sup></b> (ME 329, Coreq: ME 318 & 350)	
Manufacturing Processes: Material Removal <b>IME 143 (2)</b>			Measurement & Engineering Data Analysis  <b>ME 236 (3)</b> (Recom: CHEM 125, ENGL 149, & PHYS 132)			Thermodynamics II  <b>ME 303 (3)</b> (ME 302)		Mechanical Vibrations  <b>ME 318 (4)</b> (ME 326, MATH 344, Recom: EE 201)		Senior Design Project II  <b>ME 429 (2)<sup>1</sup></b> (ME 428)		Senior Design Project III  <b>ME 430 (2)<sup>1</sup></b> (ME 429)	
Manuf. Processes Elective <b>IME 141 (1) OR ITP 341 (4)*</b>			Linear Analysis I  <b>MATH 244 (4)</b> (MATH 143)			Linear Analysis II  <b>MATH 344 (4)</b> (MATH 206 & 242; or 241 & 244) [B6]		Fluid Mechanics I  <b>ME 341 (3)</b> (MATH 242 or 244; ME 212)		Fluid Mechanics II  <b>ME 347 (4)</b> (ME 236, ME 341, ME 302 or Instr. consent)		Senior Design Project III  <b>ME 430 (2)<sup>1</sup></b> (ME 429)	
Calculus I  <b>MATH 141 (4)</b> * [B1]	Calculus II  <b>MATH 142 (4)</b> (MATH 141 w/min C-) [B1]	Calculus III  <b>MATH 143 (4)</b> (MATH 142 w/min C-) [Add'l Area B]	Calculus IV  <b>MATH 241 (4)</b> (MATH 143)	Linear Analysis I  <b>MATH 244 (4)</b> (MATH 143)	Linear Analysis II  <b>MATH 344 (4)</b> (MATH 206 & 242; or 241 & 244) [B6]	Fluid Mechanics I  <b>ME 341 (3)</b> (MATH 242 or 244; ME 212)	Fluid Mechanics II  <b>ME 347 (4)</b> (ME 236, ME 341, ME 302 or Instr. consent)	Mechanical Vibrations  <b>ME 318 (4)</b> (ME 326, MATH 344, Recom: EE 201)	Senior Design Project I  <b>ME 428 (2)<sup>1</sup></b> (ME 329, Coreq: ME 318 & 350)	Senior Design Project II  <b>ME 429 (2)<sup>1</sup></b> (ME 428)	Senior Design Project III  <b>ME 430 (2)<sup>1</sup></b> (ME 429)		
Select one: General Physics <b>PHYS 131 (4)</b> OR <b>PHYS 141 (4)</b> * [Add'l Area B]			General Physics III  <b>PHYS 133 (4)</b> (PHYS 131, 141, or HNRS 131; MATH 142, Recom: MATH 241)	Mechanics of Materials I  <b>CE 204 (3)</b> (ME 211)	Mechanics of Materials II  <b>CE 207 (2)</b> (CE 204)	Electric Circuit Theory and Lab  <b>EE 201 (3)</b> & <b>EE 251 (1)</b> (MATH 244, PHYS 133)	Electronics and Lab  <b>EE 321 (3)</b> & <b>EE 361 (1)</b> (EE 201, EE 251)	Energy Conversion Electromagnetics & Lab  <b>EE 255 (3)</b> and <b>EE 295 (1)</b> (EE 212 & 242 or EE 201 & 251)	Technical Elective  (3-4) ***	Technical Elective  (4) ***	Technical Elective  (4) ***		
Gen. Chem. For Phys Sci & Engineering I  <b>CHEM 124 (4)</b> * [B3/B4]			Gen. Chem. For Phys Sci & Engineering II  <b>CHEM 125 (4)</b> (CHEM 124)	Select one: Programming for Engin. Stud. <b>CSC 231 (2)</b> (MATH 142; PHYS 121, 131, or 141) OR C & Unix <b>CSC 234 (3)</b> (MATH 142)			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **		
Expository Writing <b>ENGL 133 or 134 (4)**</b> [A1] Can be taken anytime during Freshman Year			Expository Writing <b>ENGL 149 (4)</b> [A3] Can be taken anytime during Freshman Year			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	
Oral Communication <b>COMS 101 or 102 (4)**</b> [A2] Can be taken anytime during Freshman Year			Oral Communication <b>COMS 101 or 102 (4)**</b> [A2] Can be taken anytime during Freshman Year			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	
GE (4) **			Technical Writing <b>ENGL 149 (4)</b> [A3] (Completion of GE A1 with a C- or better. Recom: Completion of GE A2) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **			Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	Graduation Writing Requirement  <b>GE (4)</b> Rec: ECON 201 **	
15	17	17	17	17	15-16	18	15	16	13-14	18	18		
			<b>FALL-SPRING:</b> CSU IP Queretaro, Mexico			<b>SUMMER:</b> TECNUN, Spain		<b>SUMMER:</b> TECNUN, Spain Munich, Germany		<b>TOTAL:</b> 196-202			

**FALL 2<sup>nd</sup> Yr: CEA Madrid, Spain:** PHYS 133, CSC 231, EE 201/251, MATH 244, ME 211, ME 212; GE C1 or C2

**CEA Paris, France:** MATH 241, ME 211, GE C1 or C2, C4

**FALL-SPRING 2<sup>nd</sup> Yr: CSU IP Querétaro, Mexico:** CE 204, CE 207, MATH 241, MATH 244, ME 211, ME 212, ME 341; GE C1 or C2

**SUMMER 2<sup>nd</sup> Yr: TECNUN, Spain:** GE C1 or C2 and Tech Electives (2 units)

**FALL 3<sup>rd</sup> Yr: CEA Madrid, Spain:** CSC 231, EE 201,251, ME 302, ME 329, ME 341; GE C1 or C2  
**Lucerne, Switzerland:** EE 321, ME 303, ME 347, ME 426, Tech Electives

**TECNUN, Spain:** CE 204, EE201/251, EE 255/295, ME 302, ME 341, Tech electives

**Swinburne, Australia:** MATE 210, IME 143, BIO 213, EE 201/251, ME 302, ME 341, CE 207, ME 234, ME 326, ME 328, ME 347, Tech Electives

**SPRING 3<sup>rd</sup> Yr: Munich, Germany:** ME 302, ME 341, ME 422, Tech electives

**SUMMER 3<sup>rd</sup> Yr: TECNUN, Spain:** GE C1 or C2 and Tech Electives (2 units)

**Munich, Germany:** GE C1 or C2 and Tech Electives (6 Units)

**FALL 4<sup>th</sup> Yr: Chalmers, Sweden:** ME 422, EE 321/362, EE 255/295, Tech Electives

**KTH, Sweden:** ME 318, ME 422, Tech Electives; GE C1 or C2

**Lucerne, Switzerland:** EE 321, ME 347, ME 426, Tech Electives

**TECNUN, Spain:** CE 204, EE201/251, EE 255/295, ME 302, ME 341, Tech electives

**Swinburne, Australia:** MATE 210, IME 143, BIO 213, EE 201/251, ME 302, ME 341, CE 207, ME 234, ME 326, ME 328, ME 347, Tech Electives