

FALL:
CEA Madrid, Spain
CEA Paris, France

SPRING:
Munich, Germany

Updated 6/15/2017

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Computing CPE/CSC 123 (4) (Basic computer literacy)	Fundamentals of Computer Science CSC/CPE 101 (4) *	Data Structures CSC/CPE 202 (4)¹ (CPE/CSC 101 + MATH 141 or 221. Min C-; Or Instr Consent)	Proj-Based Object-Oriented Programming & Design CSC/CPE 203 (4) (CSC/CPE 202 w/min C- or Instr. consent)	Systems Programming CSC/CPE 357 (4) (CSC/CPE 102 & 103 or 202 and CSC/CPE 203 w/ min C- or Instr consent; & CSC 225 or CPE/EE 229 or 233)		Professional Responsibilities CSC/CPE 300 (4) (CSC/CPE 357, Jr. standing)			CSC/CPE 300 (4)		
		General Psychology PSY 201/202 (4) [D4]	Introduction to Computer Organization CSC 225 (4) (CSC/CPE 202-formerly CSC/CPE 103)	Discrete Structures CSC 348 (4) (CSC/CPE 102 & 103 or CSC/CPE 202 & CSC/CPE 203. Min C-; Or Instr consent)	Engineering Economics IME 314 (3) (MATH 241)	Software Engineering I CSC 308 (4) (CSC 141 or CSC 348; and CPE/CSC 357)	Software Engineering II CSC 309 (4) (CSC 308)	Programming Languages I CSC 430 (4) (CSC 349, CSC/CPE 357)	Software Requirements Engineering CSC/CPE 402 (4) (CSC 307 or 309)	Software Construction CSC/CPE 405 (4) (CSC 305 & 402)	Software Deployment CSC/CPE 406 (4) (CSC 405)
Calculus I MATH 141 (4) * [B1]	Calculus II MATH 142 (4) (MATH 141 w/min C-) [B1]	Calculus III MATH 143 (4) (MATH 142 w/min C-) [Add'l Area B]	Calculus IV MATH 241 (4) (MATH 143)	Linear Analysis I MATH 244 (4) (MATH 143)	Statistical Methods For Engineers STAT 312 (4) [B6]	Individual Software Design & Development CSC 305 (4) (CSC/CPE 357)	User-Centered Interface Design & Development CSC 484 (4) (CSC 307 or 308; Jr. standing)	Approved Technical Elective (4)² ***	Approved Technical Elective (4)² ***	Senior Project I CSC 491 (2) (CSC 307 or 309; Instr. consent)	Senior Project II CSC 492 (2) (CSC 491, Instr. consent)
Expository Writing ENGL 133/134 (4)** [A1]			Physical Science Support Electives (12 units) Physics IA, II, & III PHYS 141 (4)* [B3/B4] OR PHYS 132 (4)* [Add'l Area B] OR PHYS 133 (4)* Chemistry I, II, & III CHEM 124 (4)* [B3/B4] OR CHEM 125 (4)* [Add'l Area B] OR CHEM 126 (4)*			Design & Analysis of Algorithms CSC 349 (4) (CSC 141 or 348 & MATH 142; or CPE/CSC 102 & 103 or 202 & 203 w/ MATH 248)	Approved Technical Elective (4)² ***	Approved Technical Elective (4)² ***	Approved Technical Elective (4)² ***	Approved Technical Elective (4)² ***	Life Science Support Elective (4-5)³ [Add'l Area B]
Oral Communication COMS 101/102 (4)** [A2]			Technical Writing for Engineers ENGL 149 (4)* [A3] (Completion of GE A1 with a C- or better, Recommended: Completion of GE A2. Can be taken anytime between Winter of Freshman and Winter of Sophomore Years)			Choose one: Teamwork PSY 350 (4) (GE D4) OR Group Dynamics PSY 351 (4) (PSY 252 or 323) OR Small Grp Comm COMS 217 (4) (COMS 101 or 102)	Approved Technical Elective (4)² ***	Math Elective (Choose one): MATH 248, 304, 335, 336, or 451 (4)*			
GE (4) **	GE (4) **			GE (4) **			GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **
Graduation Writing Requirement (Students can attempt to fulfill the requirement after 9 earned units; students should complete the requirement before senior year)						GWR*					
16	16	16	16	16	15	16	16	16	16	14	14-15
										TOTAL:	187-188

SUMMER:
Munich, Germany

FALL 2nd Yr: **CEA Madrid, Spain:** PHYS 133, MATH 244, Tech Electives; GE C1 or C2
CEA Paris, France: MATH 241, GE C1 or C2, C4
SPRING 3rd Yr: **Munich, Germany:** Tech electives
SUMMER 3rd Yr: **Munich, Germany:** GE C1 or C2 and Tech electives (4 units)

*see IEP advisor for other possible course options