

SAMPLE CAREER DEGREE MAP Engineering Science BS: Computer Engineering 2024-Present | Total Credits Required: 133

Year One - First Semester <i>Academic</i>	Prog	ıram '	→
Course Number & Title	Min. (Grade	Cr.
ENG 111 ENGLISH COMPOSITION			3
MTH 231 ANALYTIC GEOMETRY & CALC). I	С	3
MTH 229 CALCULUS COMPUTER LAB			1
PHY 120 GENERAL PHYSICS I			3
PHY 121 GENERAL PHYSICS I LAB			1
ENGR 100 INTRO TO ENGINEERING			2
ENGR 136 COMPUTER-AIDED ENGINEERING			2
ENS 110 ENGINEERING GRAPHICS			2
Total Credits:			17

← Year One - First Semester Career Readiness	
Recommended Career Milestones	Done
Log in to your Handshake Account available through Career Services	
Create a Draft Resume or Start Building a Basic Resume	
Join a Student Club	

Year One - Second Semester Academic Pro	ogram	→
Course Number & Title Min.	Grade	Cr.
ENG 151 INTRO TO COLLEGE WRITING		3
MTH 232 CALCULUS II	С	3
PHY 160 GENERAL PHYSICS I		3
PHY 161 GENERAL PHYSICS I LAB		1
ENGR 220 INTRO TO COMPUTER ENG.		4
CSC 270 INTRO TO SCIENTIFIC COMP.	С	4
Total Credits:		18

← Year One - Second Semester Career Readiness		
Recommended Career Milestones	Done	
Create a LinkedIn Account to start connecting with classmates and professors		
Explore Career Options for Engineering Science Majors through O*Net		
Attend Career Center for Professional Development Events and Internship Fairs		
Create a Draft Cover Letter		

Year Two - First Semester Academic Program →		
Course Number & Title Min. Gr	ade	Cr.
MTH 233 CALCULUS III		3
ENGR 221 DIGITAL ELECTRONICS LAB		2
ENS 250 ENGINEERING MECHANICS		3
ENGR 241 ELECTRICAL & ELECTRONIC CIRCUITS		4
US EXPERIENCE IN ITS DIVERSITY		3
ECO 101 INTRO TO ECONOMICS		3
Total Credits:		18

← Year Two - First Semester Career Readiness	
Recommended Career Milestones	Done
Develop a Network of Contacts Through LinkedIn	
Update Your Resume to include certifications	
Find a Mentor through the CSI Alumni Mentorship Program You Can Check in With Periodically or Shadow in the Field	
Start Your Internship Search	
Look for Summer Research Opportunities	

Year Two - Second Semester Academic Program	n	→
Course Number & Title Min. Grad	Ф	Cr.
POL 103 INTRO TO POLITICAL SCIENCE OR ANY WORLD CULTURES & GLOBAL ISSUES		3
ENGR 310 THERMODYNAMICS		4
ENGR 249 BASIC MEASUREMENTS LAB		2
MTH 330 APPLIED MATH. ANALYSIS I		4
CHM 141 GENERAL CHEMISTRY I		3
CHM 121 GENERAL CHEMISTRY I LAB		1
Total Credits:		17

← Year Two - Second Semester Career Readiness	
Recommended Career Milestones	Done
Join a Student Professional Organization	
Use LinkedIn to Start Marketing Yourself and	
Building Professional Relationships	
Attend Basic Interview Workshops	
Identify Skills That You Need to Build Outside of the	
Classroom - Develop Proficiency in CAD Software	



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Year Three - First Semester Academic Program	→
Course Number & Title Min. Grade	Cr.
ENS 331 DIGITAL SIGNAL PROCESSING	4
ENS 336 COMPUTER-AIDED ENGINEERING	4
ENS 362 MICROCONTROLLERS	4
MTH 311 PROB. THEORY & INTRO MTH STATS	4
Total Credits:	16

← Year Three - First Semester Career Readiness	
Recommended Career Milestones	Done
Refine Your Resume to Include Project	
Achievements and New Skills Gained	
Continue to Apply for Internships with Engineering	
Firms or Governmental Agencies	
Research Graduate School or Other Post-Graduate	
Opportunities	
Practice Advanced Interview Techniques	

Year Three - Second Semester Academic Program		
Course Number & Title Min. Gr	ade	Cr.
POL 251 OR ECO 285		4
CSC 326 DATA STRUCTURES		4
ENS 439 SYSTEMS LAB		2
ENS 371 SYSTEMS ANALYSIS		3
PHY 240 WAVES AND MODERN PHYSICS		3
Total Credits:		16

← Year Three - Second Semester Career Readiness		
Recommended Career Milestones	Done	
Take Leadership Roles in Clubs and Organizations		
Attend Career Center for Professional Development		
Events and Internship Fairs		
Explore Career Options and Tasks with Virtual Work		
Experiences such as Forage Gain Practical		
Experience and Industry-Specific Skills		
Create an Elevator Pitch		

Year Four - First Semester Academic Program →			
Course Number & Title Min.	Grade	Cr.	
CREATIVE EXPRESSION		3	
ENS 491 ADV. ENGINEERING DESIGN I		2	
CSC 305 OPERATING SYS. PROGRAM. LAB		1	
CSC 332 OPERATING SYSTEMS I		3	
TECH ELECTIVE STEM 300-400 LEVEL		4	
CES ADVANCED ELECTIVE		4	
Total Credits:	-	17	

← Year Four - First Semester Career Readiness		
Recommended Career Milestones	Done	
Meet with a Career Advisor for Job Search Preparation		
Use LinkedIn to Let Contacts Know You Are Looking for Employment		
If Appropriate, Complete the Process of Applying to Graduate School		
Secure letters of recommendation from professors or supervisors		
Take online courses through Coursera, LinkedIn Learning, or edX to learn new skills and stay updated with industry trends.		

Year Four - Second Semester <i>Academic Program</i> →			
Course Number & Title Min. Grade	Cr.		
ENS 485 PROPERTIES OF MATERIALS	4		
ENS 492 ADV. ENGINEERING DESIGN II	2		
CES ADVANCED ELECTIVE	4		
ELECTIVE	4		
Total Credits:			

← Year Four - Second Semester Career Readiness	
Recommended Career Milestones	Done
Actively Apply for Jobs!	
Attend Networking Events and Career Fairs	
Participate in Senior Showcase Events	·