

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

Year One - First Semester Academic Program →		
Course Number & Title Mir	. 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 ENGR.		2
ELECTIVE		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	
Attend Engineering Speaker Events	

Year One - Second Semester Academic Program		
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. Grac	de Cr.	
MTH 233 CALCULUS III	3	
ENGR 221 DIGITAL ELECTRONICS LAB	2	
ENGR 241 ELECT. & ELECTRON. CIRC.	4	
ENGR 310 THERMODYNAMICS	4	
POL 103 OR ANY WORLD CULTURES &	2	
GLOBAL ISSUES	3	
Total Credits:	16	

← 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		
Develop a Network of Contacts Through LinkedIn		

Year Two - Second Semester <i>Academic Program</i> →		
Course Number & Title Min. G	rade	Cr.
ENGR 249 BASIC MEASUREMENTS LAB		2
MTH 330 APPLIED MATH. ANALYSIS I		4
MTH 311 PROB. THEORY & INTRO MATH STATS		4
PHY 240 WAVES & MODERN PHYSICS		3
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		
Develop a customized cover letter to be adapted for applications		



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

Year Three - First Semester Academic Program →		
Course Number & Title Min. G	rade	Cr.
ELE 322 SIGNALS & NOISE		3
ELE 331 DIGITAL SIGNAL PROCESSING		4
ELE 336 COMPUTER-AIDED ENGINEERING		4
ELE 345 SOLID STATE DEVICE FUND.		3
ELE 362 MICROCONTROLLERS		4
Total Credits:		18

← Year Three - First Semester Career Reading	iess
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.
ELE 342 ELECTRICAL & ELECTRIC CIRC. II		3
ELE 439 SYSTEMS LAB		2
ELE 371 SYSTEMS ANALYSIS		3
ELE 420 ANALOG & DIGITAL SYSTEMS DES.		4
US EXPERIENCE IN ITS DIVERSITY		3
Total Credits:		15

← 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. G	rade	Cr.		
ELE 491 ADV. ENGINEERING DESIGN I		2		
ELE 356 THEORY OF ELECTROMAG. RAD.		4		
ELE 400-LEVEL ADVANCED ELECTIVE		4		
POL 251 INT. POLITICAL ECO OR ECO 285 ECO FOR ENGINEERS		4		
INDIVIDUAL & SOCIETY		3		
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		

Year Four - Second Semester Academic Program →			
Course Number & Title Min. G	rade	Cr.	
CREATIVE EXPRESSION		3	
ELE 415 OR ELE 436 OR ELE 471		3	
ELE 432 DIGITAL & ANALOG COMM. SYS.		3	
ELE 492 ADV. ENGINEERING DESIGN II		2	
ELE 400-LEVEL ADVANCED TECHNICAL ELECTIVE		4	
Total Credits:		15	

← Year Four - Second Semester Career Readiness		
Recommended Career Milestones	Done	
Actively Apply for Jobs!		
Attend Networking Events and Career Fairs		
Final Interview Preparation – Meet with Career		
Advisor to schedule Interview Practice Sessions		
Participate in Senior Showcase Events		