



**SAMPLE CAREER DEGREE MAP**  
**Engineering Science AS: Electrical**  
**2024-Present | Total Credits Required: 60**

Year One - First Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
ENG 111 ENGLISH COMPOSITION		3
MTH 231 ANALYTIC GEOMETRY & CALC. I	C	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
<b>Total Credits:</b>		<b>15</b>

← 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	
Research Baccalaureate Programs and Complete a Transfer Plan	

Year One - Second Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
ENG 151 INTRO TO COLLEGE WRITING		3
MTH 232 CALCULUS II	C	3
PHY 160 GENERAL PHYSICS I		3
PHY 161 GENERAL PHYSICS I LAB		1
ENGR 220 INTRO TO COMPUTER ENG.		4
US EXPERIENCE IN ITS DIVERSITY		3
<b>Total Credits:</b>		<b>17</b>

← 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. Grade	Cr.
ENGR 221 DIGITAL ELECTRONICS LAB		2
ENGR 241 ELECTRICAL & ELECTRONIC CIRCUITS		4
INDIVIDUAL & SOCIETY		3
WORLD CULTURES & GLOBAL ISSUES		3
ANY ADDITIONAL FLEXIBLE CORE		3
<b>Total Credits:</b>		<b>15</b>

← 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	
Research and Apply to Baccalaureate Programs	

Year Two - Second Semester Academic Program →		
Course Number & Title	Min. Grade	Cr.
CSC 270 INTRO TO SCIENTIFIC COMP. CREATIVE EXPRESSION	C	4
ENGR 249 BASIC MEASUREMENTS LAB		3
CHM 141/121 OR ELE 362		2
<b>Total Credits:</b>		<b>13</b>

← 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	