



# Program of Studies

## Master's of Science in Electrical and Computer Engineering

### (New Requirements — 46 Units)

Name: ..... Student SCU # .....

First

Last

Email: ..... Expected Graduation Date: .....

PROGRAM TYPE (CHECK ONE):       NEW                       UPDATED                       FINAL

**1. Transfer Credits:**

(All transfer credit must be approved by your advisor. Maximum TC credit 9 quarter units or 6 semester units. BS/MS students can transfer up to 20 units from their undergraduate degree. Students who have an undergrad degree from SCU can transfer up to 12 units from their undergrad degree. The approved transfer units cannot be used toward your undergraduate degree.) Please attach an additional sheet if you have more than 3 classes to transfer. *Only those courses completed with a C grade or higher will be eligible for transfer credit. Extension, continuing education and online courses are not acceptable for transfer credit.*

Institution	Course	SCU Equivalent	Units	Grade	Year

**2. Enrichment Experience: Complete BOTH sections a) and b). Minimum 8 units.**

a) Must take at least 2 courses (minimum 4 units) from the 3 graduate core areas. **NO WAIVERS OR SUBSTITUTIONS WILL BE ACCEPTED.**

Graduate Core Area	Course #	Course Title	Units	Grade
Emerging Topics in Engineering				
Engineering and Business/Entrepreneurship				
Engineering and Society				

b) Remaining 4 units completed by one of the following. Please choose one and list courses below:

- One or more technical electives
- Cooperative Education courses (ENGR 288/289)
- Additional classes from Graduate Core
- Combining courses from (a), (b), (c)

Course #	Course Title	Units	Grade

**3. Applied Mathematics (4 units required)**

Course	Units	Grade

Advisor Name: ..... Initials: ..... Date: .....

4. Electrical and Computer Engineering Focus Area: Select one primary and two breadth areas (excluding your primary). Students must meet the requirements of their primary area and take at least one course from each breadth area.

<u>Area</u>	<u>Primary(P)/ Breadth(B)</u>	<u>Required Courses</u>	<u>Units</u>	<u>Grades</u>
Power Systems and Control	<input type="checkbox"/> P <input type="checkbox"/> B	Either 236 or 281A Two from 211 232 281B 333		
IC Design and Technology	<input type="checkbox"/> P <input type="checkbox"/> B	Three from 252 261 270 387		
RF and Applied Electromagnetics	<input type="checkbox"/> P <input type="checkbox"/> B	Take 201 Two from 202 203 204 624 701 706		
Signal Processing and Machine Learning	<input type="checkbox"/> P <input type="checkbox"/> B	Take 233 Two from 234 421 431 520 640 644		
Digital Systems	<input type="checkbox"/> P <input type="checkbox"/> B	Take 501 511 and 603		
Communications	<input type="checkbox"/> P <input type="checkbox"/> B	Both 241 and 243 One from 244 444 446		
Advisor Notes				

5. Additional Elective Courses in Focus Area and other Areas in Electrical Engineering

Recommended and approved by the graduate program advisor for subarea \_\_\_\_\_

<u>Course</u>	<u>Units</u>	<u>Grade</u>

<u>Course</u>	<u>Units</u>	<u>Grade</u>

GRADUATION REQUIREMENTS

<u>TOTALS</u>	
<u>Transfer Units</u> (1 semester unit = 1.5 quarter units)(9 quarter units maximum)	
<u>Total SCU Units</u>	
<u>Total Units</u> (46 quarter units minimum)	
<u>Current Cumulative GPA</u>	

I understand that it is my responsibility to:

Ensure the transcripts for transfer credits are sent to the Graduate Services Office.

1. Obtain my advisor's approval and signature of this program and of any subsequent changes needed.
2. Complete the program as approved with a minimum of 46 units and a 3.0 cumulative GPA with no grade below C-.

Student Signature/Date: \_\_\_\_\_ / \_\_\_\_\_

Advisor Name (print): \_\_\_\_\_

Advisor Signature/Date \_\_\_\_\_ / \_\_\_\_\_