Santa Clara Engineering

Program of Studies
Bioengineering MS
(With Graduate Engineering Core)

NAME: ..... **STUDENT SCU #**.....
FIRST LAST

EMAIL: ..... **EXPECTED GRADUATION DATE**: .....

PROGRAM TYPE (CHECK ONE): ☐ NEW ☐ UPDATED ☐ FINAL

1. Graduate Core Requirements. BIOE 210 is required. Take one course from the remaining graduate core area (minimum 4 units overall). NO WAIVERS OR SUBSTITUTIONS WILL BE ACCEPTED. (**4 units**)

Graduate Core Area	Course #	Course Title	Units	Grade
Engineering and Society	BIOE 210	Ethical Issues in Bioengineering	2	
Professional Development				

2. Focus Area. Complete 6 units from the Primary focus area and 4 units from a second focus area. Complete an additional 6 units for computational bioengineering (AMTH courses) or Translational Bioengineering (Capstone) (**10-16 units**)

Biomolecular Engineering			Biomaterials and Tissue Engineering			Biodevice Engineering			Computational Bioengineering			Translational Bioengineering		
BIOE	Units	Grade	BIOE	Units	Grade	BIOE	Units	Grade	BIOE	Units	Grade	BIOE	Units	Grade
257	2		258 L+L	5		203	2		227 A	2		206	4	
263	2		259 L+L	5		216	2		227 B	2		263	2	
282	2		269	2		260	2		251	2		279	2	
283	2		273	2		267	2		252	2		285	2	
286	2		378	2		268	4		281	2		302	2	
287	2					276	2		284	2		307	2	
288	2					277	2		312	2		320	2	
300	2					308	2		**AMTH**			381	2	
301	2								240	2		**Capstone**		
Note: (1) All graduate level BIOE courses (except BIOE 210) may count as TEs; (2) Selected graduate courses from ECEN, MECH, or CSEN may be credited as TEs upon approval by faculty advisor; (3) Maximum 3 units of BIOE 297 is allowed if also taking BIOE 397, otherwise maximum 6 units of BIOE 297 is allowed; (4) Submission of a M.S. Thesis is required for BIOE 397 (max. 9 units)									364	2		294	2	
									370	2		295	2	
									371	2		296	2	
									377	4				

3. Applied Mathematics. Complete at least one Applied Mathematics 4-unit sequence in either linear algebra or probability. Select from AMTH 200 and 201 (or 202), AMTH 210 + 211 (or 212), and AMTH 245 and 246 (or 247).

Catalog #	Units	Grade

4. Bioengineering Core. Complete 9 units from Bioengineering.

Catalog #	Units	Grade
BIOE 200	(1) X 2	
BIOE 232 L+L	3	
BIOE 280*	4	

**BS/MS students who previously satisfied the BIOE 280 requirement by taking BIOE 180/280 may choose to take additional TE course(s) (minimum 4 units) to fulfill the bioengineering core requirement*

5. Technical Electives[1,2] and Directed Research/Thesis. (**4-19 units**)

Course #	Course Title	Units	Grade
BIOE 297[3]			
BIOE 397[3,4]			

6. Transfer Credit.

All transfer credit must be approved by your academic advisor. A maximum of 9 quarter units or 6 semester units may be transferred. Only courses completed with a grade of C- or higher are eligible for transfer credit. Extension, continuing education, and online courses are not accepted. BS/MS students may transfer up to 20 graduate-level units from their undergraduate coursework. All approved transfer credit must not have been applied toward the completion of a prior degree.

Institution	Course	SCU Equivalent	Units	Grade	Year

GRADUATION REQUIREMENTS

TOTALS	
Transfer Units (1 semester unit = 1.5 quarter units) (9 quarter units maximum) (BS/MS 20 units maximum)	
Total SCU Units	
Total Units (46 quarter units minimum)	
Current Cumulative GPA	

I understand that it is my responsibility to:

- **Ensure the transcripts for transfer credits are sent to the Graduate Services Office.**
- **Obtain my advisor's approval and signature of this program and of any subsequent changes needed.**
- **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 _____ /_____