



Santa Clara University

School of Engineering

Program of Studies

Power Systems & Sustainable Energy

Master of Science

Name: SCU ID#
First Last

Email: Advisor's Name: **M. Khanbaghi**

Expected Graduation Date _____ CIRCLE ONE: NEW PS UPDATED PS FINAL PS

B.S. Degree: (Circle one): Civil Computer Electrical Mechanical Other _____

TRANSFER CREDIT REQUESTED

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. 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.

<u>Institution</u>	<u>Course</u>	<u>SCU Equivalent</u>	<u>Grade</u>	Units	Year
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Transfer units (1 semester unit = 1.5 quarter units) (9 quarter units maximum)

Total SCU units from other side

Total units (45 quarter units minimum)

- 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.

Graduation Requirements

A 3.0 cumulative GPA and a minimum of 45 units must be completed for graduation. ENGR 288 and 289 are additional units and cannot be applied toward your degree. Only classes with assigned grades of C- or higher will count toward the completion of your degree.

I understand that it is my responsibility:

- 1. To ensure that institutions send official transcripts for transfer courses to the Graduate Programs Office.**
- 2. To obtain my advisor's approval of and signature on this program of studies and any subsequent changes needed.**

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Student's signature

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Date

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Advisor's signature

Requirements

- **Foundational Courses**
 - *ELEN 280/MECH 287 Alternative Energy Systems (2 units)* _____
 - *ELEN 281A Power System: Generation (2 units)* _____
 - *ELEN 281B Power Systems: Transmission and Distribution (2 units)* _____
 - *ELEN 285 Introduction to the Smart Grid (2 units)* _____
 - **Management Course**
 - *EMGT 380 Introduction to Systems Engineering Management (2 units)* _____
 - *CENG 208 Engineering Economics and Project Finance (3 units)* _____
 - **Sustainability courses (These courses satisfy the Graduate Core requirement)**
 - *ENGR 272 Energy Public Policy (2 units)* _____
 - *ENGR 273 Sustainable Energy and Ethics (2 units)* _____
 - **Applied Math Courses: (8 units in AMTH, to be selected in consultation with academic advisor)**
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Specialization Core: Select one track

- **Mechanical Engineering**
 - *ELEN 231 Power System Stability & Control (4 units)* _____
 - *ELEN 287/ENGR 339 Energy Storage Systems (2 units)* _____
 - *MECH 228 Equilibrium Thermodynamics (2 units)* _____
 - *MECH 288 Energy Conversion I (2 units)* _____
- **Electrical Engineering**
 - *ELEN 231 Power System Stability & Control (4 units)* _____
 - *ELEN 287/ENGR 339 Energy Storage Systems (2 units)* _____
 - *ELEN 288 Energy Mgmt (2 units) OR* _____
 - *ELEN 236 Linear Control Systems (2 units)* _____
 - *ELEN 353 DC to DC Power Conversion (2 units)* _____
- **Computer Engineering**
 - *COEN 233 Computer Networks (4 units)* _____
 - *COEN 243 Internet of Things (4 units)* _____
 - *COEN 389 Energy-Efficient Computing (2 units)* _____
- **Civil Engineering**
 - *CENG 213 & Lab Sustainable Materials (5 units)* _____
 - *CENG 219 Designing for Sustainable Construction (4 units)* _____

Elective Courses (To complete the 45 unit requirement)

Must be approved by advisor. These elective courses may include a thesis, up to 9 units. Please note: ELEN 379-Nanotechnology does not count toward the completion of this degree

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