# Program of Studies

## MS Computer Science & Engineering
### (46 Units)

**Santa Clara University**
School of Engineering

**Name:** _Michael_ _Schimpl_ / **Student SCU #** _123456_
First — Last

**Email:** _1234@scu.edu_  **Expected Graduation Date:** _Fall 2022_

**PROGRAM TYPE (CIRCLE 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, part A and part B. Each section a minimum of 4 units, total 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 | COEN287 | Software Dev. Process Mgmt | 2 | |
   | Engineering and Society | ENGR303 | Gender and Engineering | 2 | |

   b) **Remaining 4 units completed by one of the following. Please choose one and list courses below: (independent study, directed research, thesis, capstone and seminars not approved)**

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

   | Course # | Course Title | Units | Grade |
   |---|---|---|---|
   | ENGR288 | Co-ops Education | 1 | |
   | ENGR289 | Co-ops Internship | 1 | |
   | COEN288 | Software Ethics | 2 | |
   | | | | |

3. **Foundation Courses**: Mark the courses (or equivalences) with "✓" the student is required to take at SCU.
   *Note: Labs are not required.*

| Course | Units | Grade |
|---|---|---|
| **COEN 920C (Embedded Systems & Assembly Lang) | | |
| **COEN 921C (Logic Design) | | |
| **COEN 912C (Abstract Data Types & Structures) | | |
| AMTH 240 (Discrete Math) | | |
| AMTH 210 (Probability I) | | |
| One of the following: **AMTH 106, AMTH 220 and 221, AMTH 245 and 246 | | |
| Advanced Programming | | |

   **These courses do not count toward the MS unit degree requirement.**

4. **Computer Science and Engineering Core Courses**: Mark the courses (or equivalences) with "✓" the student is required to take. If the course is **not required** mark "W" for waived. If the student is required to take COEN 313, 379, and/or 383 in place of any of the core courses below, please list them in section 5 under 300 level & above courses.

| COURSES | COEN 210 (4 units) | COEN 279 (4 units) | COEN 283 (4 units) |
|---|---|---|---|
| GRADES | ✓ | ✓ | ✓ |

5. **COEN courses at 300 level and above**: MINIMUM OF 8 UNITS of 300 level and above courses is required. For COEN 493 & 499, A MAXIMUM OF 6 UNITS CAN BE APPROVED FOR COEN 493/499 COMBINED.

| Course # | Course Title | Units | Grade | Course # | Course Title | Units | Grade |
|---|---|---|---|---|---|---|---|
| COEN380 | Adv. Database S. | 4 | | | | | |
| COEN342 | Deep Learning | 4 | | | | | |
| COEN373 | Advanced Algor. | 4 | | | | | |

6. **COEN Elective Courses**: Maximum number of non-COEN graduate units allowed is 10 units, including those from sections 2 and 3.

| Course # | Course Title | Units | Grade | Course # | Course Title | Units | Grade |
|---|---|---|---|---|---|---|---|
| COEN285 | Software Eng | 4 | | | | | |
| COEN240 | Machine Learning | 4 | | | | | |
| COEN280 | Database Systems | 4 | | | | | |
| COEN250 | Inf. Security M. | 2 | | | | | |

## GRADUATION REQUIREMENTS

**UNIT TOTALS AND GPA**

| | |
|---|---|
| **Transfer Units** (1 semester unit = 1.5 quarter units) (9 quarter units maximum) | |
| **Total SCU Units** (excluding courses like 912C, 920C, and 921C, which do not count as graduate credits) | 46 |
| **Total Units** (46 quarter units minimum) | 46 |
| **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-.
- Students and advisors need to check to ensure that all the courses and units listed in the POS form satisfy the degree requirements listed in the SCU graduate engineering bulletin on the graduate engineering website.

Student Signature/Date: _____XXX_____ / 10/10/21

Advisor Name (print): _____Prof. Ling_____

Advisor Signature/Date _____ /_____