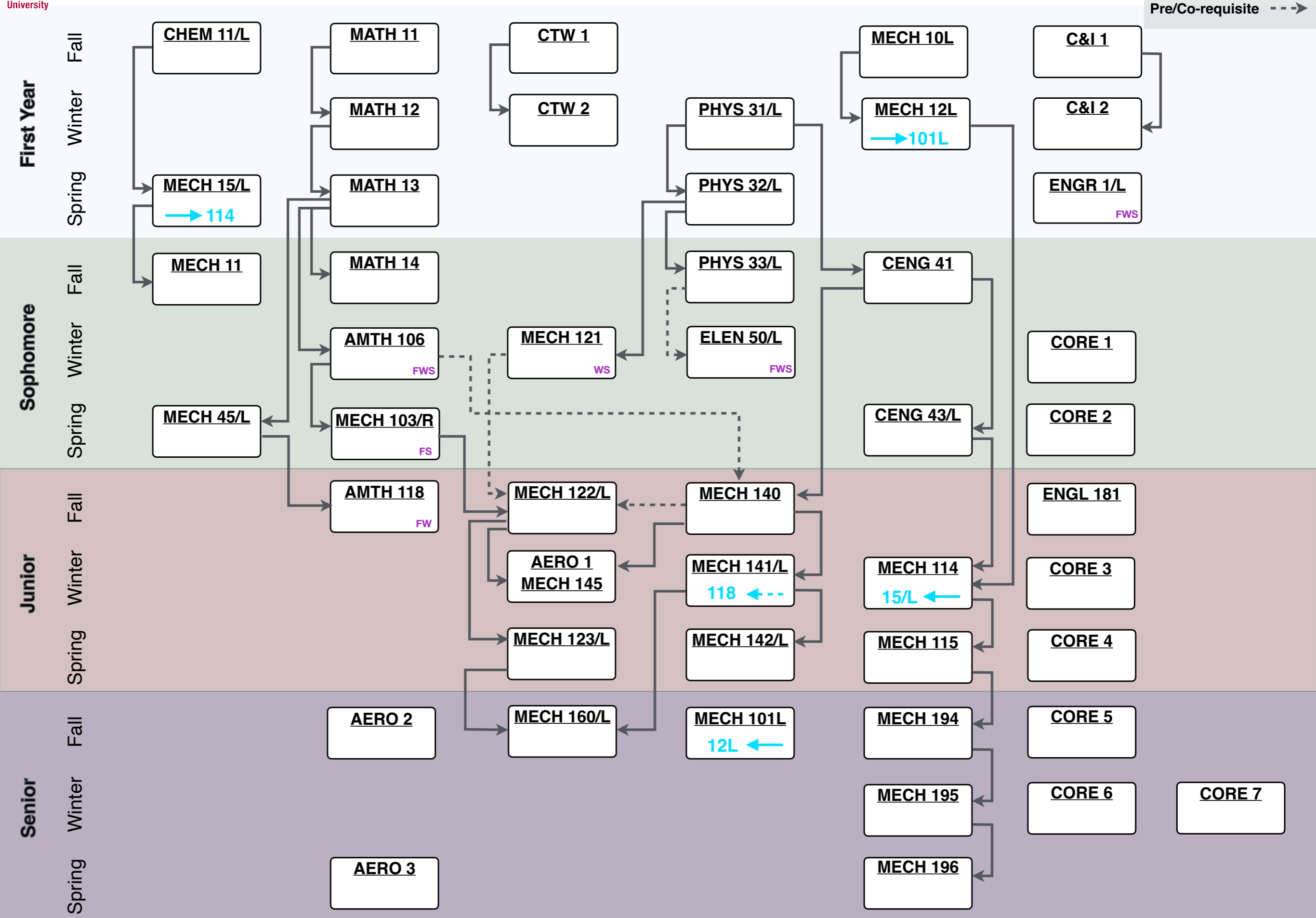




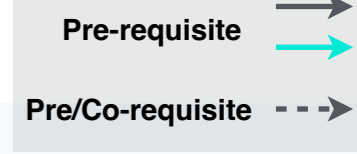
MECH Curriculum/ AERO Minor Flowchart AY '22-'23: First-Year Students

Pre-requisite →
Pre/Co-requisite - - ->





MECH Curriculum/ AE Minor Flowchart AY '22-'23: First-Year Students (LEAD/



First Year

Fall
Winter
Spring

Sophomore

Fall
Winter
Spring

Junior

Fall
Winter
Spring

Senior

Fall
Winter
Spring

CHEM 11/L

MATH 9/L

CTW 1

ENGR 1/L
FWS

MECH 10L

C&I 1

MECH 15/L
→ 114

MATH 11

CTW 2

PHYS 31/L/R

MECH 12L
→ 101L

C&I 2

MECH 11

MATH 12

PHYS 32/L

MECH 45/L

MATH 13

MECH 121
WS

PHYS 33/L

CENG 41

CORE 1

MATH 14

ELEN 50/L
FWS

CENG 43/L

CORE 2

AMTH 106
FWS

MECH 103/R
FS

MECH 122/L

MECH 140

MECH 141/L
118 ← - -

MECH 114
15/L ←

ENGL 181

AMTH 118
FW

MECH 123/L

MECH 142/L

MECH 142/L

MECH 115

CORE 3

AERO 2

MECH 160/L

MECH 101L
12L ←

MECH 101L
12L ←

MECH 194

CORE 4

AERO 1
MECH 145
140, 122 ←

AERO 1
MECH 145
140, 122 ←

MECH 101L
12L ←

MECH 101L
12L ←

MECH 195

CORE 5

CORE 6

AERO 3

AERO 3

MECH 101L
12L ←

MECH 101L
12L ←

MECH 196

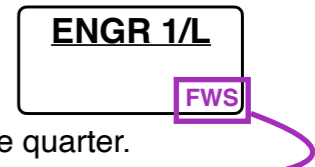
CORE 7

CORE 7

Mechanical Engineering Curriculum Flow Chart

Additional Notes

Information in this document is superseded by the official policies in the Undergraduate Bulletin from the year of the start of the program at Santa Clara University.



1. Students are to indicate completion of classes and associated labs on the flowchart by filling in the quarter and year for courses completed. For example:
2. If you wish to take any class in an alternate quarter you MUST check with the appropriate department to verify that the class will be offered in the alternate quarter.
3. Courses denoted with **F**, **W**, and/or **S** are offered in fall, winter, and/or spring. Discuss course flexibility and planning with your advisor.
4. ELEN 50/L is recommended to be taken before MECH 160/L.
5. MECH 15/L is a prerequisite for MECH 114. MECH 12L is a prerequisite for MECH 101L. (Lines omitted on chart for clarity.)
6. Students must meet prerequisites and shop rules for use of the shop in senior design & junior design.
7. Study abroad can be accomplished by taking engineering classes abroad to satisfy requirements. These classes must be approved by your advisor and the chair PRIOR to leaving for the study abroad term. Suggested plans for Sophomore year classes are shown on the following page. See your advisor well ahead of time to plan.
8. Graduation requirements include completing 192 units, satisfaction of the university core and department requirements, and 2.0 GPA, overall and in the major (engineering units).
9. Ethics statement: The Department of Mechanical Engineering values academic integrity as described in the University policy. The learning derived from a course is based on student integrity and faculty support of a just learning environment. The faculty strive to enforce the policy and are open to any questions and discussion from the students. For deeper discussion and useful tips, it is suggested that all students read the information found at <https://www.scu.edu/academic-integrity/>

Core

The Santa Clara Core Curriculum consists of two phases of academic work designed to foster developmental learning and curricular coherence – Foundations and Explorations – and a third phase – Integrations – designed to help students make a connections among courses in the Core and between the Core and the major: For Core 1-7 and Technical Writing the student needs to satisfy the following requirements. For more details: <https://www.scu.edu/provost/core/>

1. Religion, Theology, and Culture 1, 2, 3 (three classes, one at each level). Engineering students are encouraged to take ENGR 16.
2. Social Science
3. Diversity
4. Cultures & Ideas 3
5. ELSJ, can be satisfied with an ELSJ milestone
6. Ethics. Engineering students are encouraged to take ENGR 19.
7. Technical Writing, ENGL 181, can be taken F junior year through W senior year.
8. Civic Engagement, Arts, and other requirements are satisfied through classes already required (e.g., ENGR1 & Senior Design); RTC 1 is recommended to be taken in first open core slot.
9. Pathways: clusters of courses with a common theme to promote integrative and intentional learning. Students should make reflective and intentional choices to study a theme from multiple disciplinary or methodological perspectives and to perceive connections. Engineering students need to take 3 pathway courses and keep their materials to write a pathway reflection and portfolio. For more details: <https://www.scu.edu/provost/core/integrations/pathways/>
10. Students must consult with one of the University advisors in the Drahmman Center before making any changes in their enrollment in the C&I and CTW sequences.

Electives

1. The approved Technical and Math/Science electives can be found at: <https://www.scu.edu/engineering/academic-programs/department-of-mechanical-engineering/undergraduate/programs/>
2. The AERO minor courses (AERO 2 & 3) will be offered based on the two-year plan posted at: https://www.scu.edu/media/school-of-engineering/pdfs/AEM_Tentative_Course_Schedule.pdf