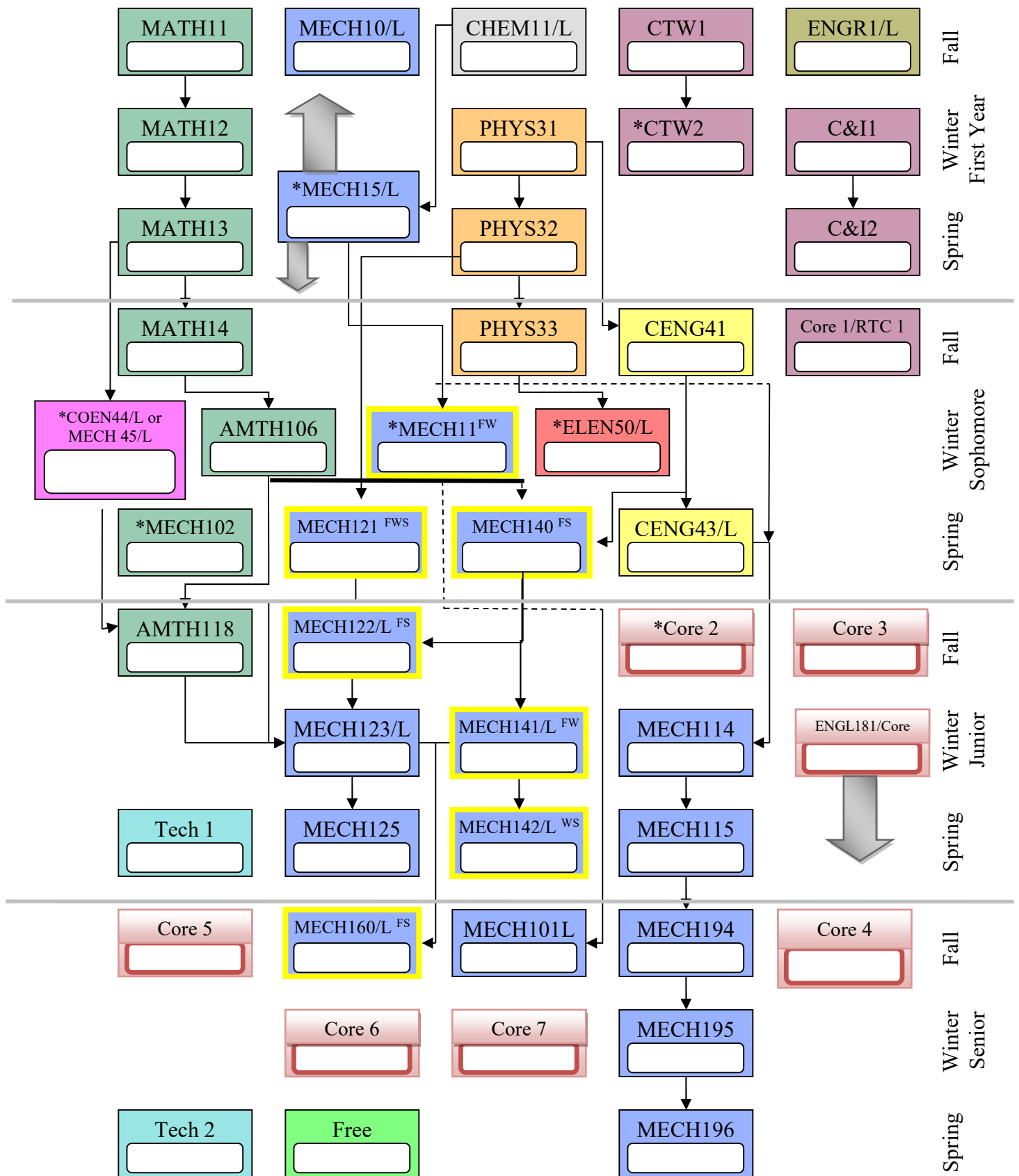


# Mechanical Engineering Curriculum Flow Chart



Yellow border classes can be taken during different quarters. Note this is a typical plan; consult your faculty advisor to verify any changes and options in a specific year. \*See back for instructions and notes

# Mechanical Engineering Curriculum Flow Chart

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 Information in this document is superseded by the official policies in the Undergraduate Bulletin from the year of the start of the program at Santa Clara University.

CTW1
ENGL11/F11

1. Please fill in the class, quarter, and year for courses completed on the flowchart.
2. Completion of lab components should also be indicated on the chart.
3. **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.
4. 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: [www.scu.edu/provost/core](http://www.scu.edu/provost/core)
  - Religion, Theology, and Culture 1, 2, 3 (three classes, one at each level)
  - Social Science
  - Diversity
  - Cultures & Ideas 3
  - ELSJ, can be satisfied with an ELSJ milestone
  - Ethics
  - Technical Writing, ENGL 181, can be taken F junior year through W senior year. 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.
5. **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/pathways/>
6. **Technical electives** must be from the approved list; or approved by instructor, advisor, and chair. Most but not all upper division engineering classes could be technical electives.
7. Students must meet prerequisites and shop rules for **use of the shop** in senior design & junior design.
8. **Study abroad** can be accomplished by taking engineering classes abroad to satisfy requirements. These classes must be approved by your advisor and the appropriate chair PRIOR to leaving for the study abroad term. See your advisor well ahead of time to plan.
9. **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).
10. **Ethics statement:** The Department of Mechanical Engineering values academic integrity as described in the University policy (Undergraduate Bulletin, 2016-17 pg. 467). 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/globalengagement/international-students/living-in-the-us/my-academic-life-at-scu/academic-integrity/>
11. MECH11, MECH15, MECH121, MECH 122, MECH140, MECH141, MECH 142, MECH160 and CTW2 can be taken in alternate quarters if offered. MECH 15 and MECH 11 should be completed in the first two years.. Offerings may vary year by year.
12. **MECH102** is required for students receiving an average GPA below 3.0 for MATH 13, 14, and AMTH106. An alternate MATH/SCI elective can be taken if approved. Please consult your advisor for clarification.
13. ELEN 50/L is recommended to be taken before MECH 160/L.
14. Either COEN 44/L or MECH 45/L are acceptable based on a student's area of interest. Consult the Department Chair regarding other COEN classes.