Major Map: Mechanical Engineering Bachelor of Science in Engineering (B.S.E.) College of Engineering and Computing Department of Mechanical Engineering Bulletin Year: 2020-2021

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study.


| Take during any semester (0-9 Credit Hours) |
| :--- |
|  |
| Carolina Core CMS |

Graduation Requirements Summary

| Minimum Total <br> Hours | Minimum Major <br> Requirements Hours | College \& Program <br> Requirements Hours | Minimum <br> Carolina Core Hours | Institutional GPA |
| :---: | :---: | :---: | :---: | :---: |
| 125 | 43 | 48 | 34 | 2.00 |

1. Regardless of individual course grades, students must maintain a minimum 2.00 cumulative GPA.
2. Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the Mechanical Engineering program GPA of 2.00 .
3. Students who place into MATH 115 will be required to successfully complete it before taking MATH 141.
4. The Carolina Core provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students. Students are encouraged to complete PHIL 325 Engineering Ethics as an overlay course for VSR and CMS. Students in the College of Engineering and Computing are required to demonstrate proficiency in one foreign language equivalent to the 121 course by 1) a score of two or better on the foreign language placement test; or 2) completion of the 109 and 110 courses in FREN, GERM, LATN, or SPAN or completion of the 121 course in another foreign language. Students who do not place out of the GFL requirement may need to take additional hours to meet this requirement.
5. Math/Science Electives (6 hours): BIOL 110 or 300 and above, CHEM 112 or higher, MATH 300 or higher, PHYS 212 or higher, STAT 506 or higher.
6. Prerequisites for this course are under revision.
7. EMCH Electives ( 6 hours): EMCH $308,441,460,497$, or any EMCH course numbered 500 or higher.
8. Free Elective (6 hours): Any course taken at the University or transferred in as a University course that does not essentially duplicate a course otherwise applied to the degree. A list of such courses that cannot be used as a free elective is maintained in the department office. This list includes: ENCP 101, 102, 200, 201, 210, 260, 290, 330, 360, 491, 492; ECHE 101, 310, 320, 321; ECIV 101, 111, 200, 201, 210, 220, 360; BMEN 101, 211, 260; ELCT 101.

## Program Notes:

- Courses identified as "critical" must be completed by the semester in which they are listed in order to ensure a timely graduation due to prerequisite requirements for subsequent required courses.
- A student cannot repeat courses from the College of Engineering and Computing in which they earned a grade of $C$ or better. In addition, a student cannot repeat any course from the College a second time. No more than four courses from the College of Engineering and Computing may be repeated in order to satisfy the requirements for any degree from the College, regardless of satisfactory work. For this purpose, withdrawal from a course with a grade of $\mathbf{W}$ is not regarded as enrollment in that course. A student that does not satisfactorily complete a degree-required College course within two attempts must change major or transfer out of the College of Engineering and Computing.
- The last $25 \%$ of a student's degree must be completed in residence at the University, and at least half of the hours in the student's major courses and in the student's minor courses (if applicable) must be taken at the University.
- Disclaimer: Prerequisites on courses are subject to change. Please refer to the Bulletin.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the Carolina Core page on the University website

## Codes:

| Codes: |  |  |  |
| ---: | ---: | ---: | :--- |
| CC | Carolina Core | CC-INF | Carolina Core - Information Literacy |
| CC-AIU | Carolina Core-Aesthetic and Interpretive Understanding | CC-INT | Carolina Core - Integrative Course |
| CC-ARP | Carolina Core-Analytical Reasoning and Problem-Solving | CC-SCI | Carolina Core - Scientific Literacy |
| CC-CMS | Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component | CC-VSR | Carolina Core - Values, Ethics, and Social Responsibility |
| CC-CMW | Effective, Engaged, and Persuasive Communication: Written Component | CR | College Requirement |
| CC-GFL | Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language | MR | Major Requirement |
| CC-GHS | Carolina Core - Historical Thinking | PR | Program Requirement |
| CC-GSS | Carolina Core - Social Sciences |  |  |

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

