

Mechanical is Green, Electrical is Orange, Computer Engineering is Gray, Carolina Core is Yellow

USC is Red, MTC is Blue/Yellow

| Course Subject and Title | Credit Hours | Min. Grade | Prerequisites | Notes |
|--|--------------|------------|--------------------|----------|
| Semester One(2019 Spring) 6 Credit Hours | | | | |
| ENGL 101 | 3 | A | | |
| MATH 111 | 3 | A | | |
| Semester Two(2019 Fall) 15 Credit Hours | | | | |
| MATH 112 | 3 | A | | |
| ENGL 102 | 3 | A | | |
| CHEM 111 | 4 | B | | |
| No transfer | 5 | A | | |
| Semester Three(2020 Spring) 18 Credit Hours | | | | |
| CHEM 112 | 4 | A | | |
| MATH 141 | 4 | A | | |
| PHYS 201 | 4 | A | | |
| No Transfer | 3 | A | | |
| UNEL 001T Intro to electronics | 3 | A | | |
| Semester Four(2020 Summer) 15 Credit Hours | | | | |
| CSCE 101 | 3 | A | | |
| ENCP 200 | 3 | A | | |
| MATH 142 | 4 | A | | |
| PHYS 211 | 4 | A | | |
| UNEL 001T Intro to Data Acquisition | 1 | A | | |
| Semester Five(2020 Fall) 17 Credit Hours | | | | |
| CSCE 145 | 4 | A | | |
| ELCT 101 | 3 | A | | |
| ELCT 220 | 3 | A | | |
| EMCH 111 | 3 | B | | |
| MATH 242 | 4 | A | | |
| Semester Six(2021 Spring) 21 Credit Hours | | | | |
| CSCE 146 | 4 | A | | |
| ELCT 102 | 3 | A | | |
| MATH 241 | 4 | A | | |
| PHYS 212 | 4 | A | | |
| PSYC 101 | 3 | A | | |
| STAT 509 | 3 | B | | |
| Semester One(2021 Fall) 15 Credit Hours | | | | |
| EMCH 201 Intro. to Applied Numerical Methods | 3 | A | MATH 142 | |
| EMCH 260 Solid Mechanics | 3 | A | MATH 241, EMCH 200 | |
| EMCH 290 Thermodynamics | 3 | A | PHYS 211, MATH 142 | |
| EMCH 310 Dynamics | 3 | C | MATH 242, EMCH 200 | |
| EMCH 380 Project Management for Engineers | 3 | A | MATH 241 | |
| Semester Two(2022 Spring) 18 Credit Hours | | | | |
| EMCH 308(Introduction to FEA) | 3 | A | EMCH 260 | Elective |
| EMCH 327(Machine Design) | 3 | A | EMCH 260 | |
| CSCE 211 (Digital Logic Design) | 3 | A | MATH 141 | 2 Majors |
| ELCT 221 (Circuits) | 3 | A | MATH 142, ELCT 102 | 2 Majors |

| | | | | |
|---|---|----|----------------------------------|--------------------|
| ELCT 361(Electromagnetics) | 3 | C+ | PHYS 212, MATH 241 | |
| ELCT 363(Intro. To Microelectronics) | 3 | B | CHEM 111, PHYS 212 ,MATH 241 | |
| Semester Three(2022 Fall) 21 Credit Hours | | | | |
| CSCE 212(Intro. To Computer Architecture) | 3 | | CSCE 211, CSCE 145 | 2 Majors |
| ELCT 201(Introductory Elect. Engr. Lab) | 3 | | CSCE 211, Coreq(ELCT 222) | 2 Majors |
| ELCT 222(Signals & Systems) | 3 | | ELCT 221, MATH 242 | 2 Majors |
| EMCH 332(Kinematics) | 3 | | EMCH 310 | |
| EMCH 361(Laboratory 1) | 3 | | EMCH 290, 260, 201, ELCT 221 | |
| EMCH 368(Mechatronics) | 4 | | CSCE 145, ELCT 221, EMCH 260 | |
| CSCE 190(Computing in the Modern World) | 1 | | CSCE 145 | |
| CSCE 215(UNIX/Linux Fundamentals) | 1 | | CSCE 145 | |
| Semester Four(2023 Spring) 24 Credit Hours | | | | |
| ELCT 301(Electronics Laboratory) | 3 | | ELCT 201, Coreq(ELCT 371) | <u>Critical!!!</u> |
| ELCT 321(Digital Signal Processing) | 3 | | ELCT 222 | <u>Critical!!!</u> |
| ELCT 371(Electronics) | 3 | | ELCT 222 | <u>Critical!!!</u> |
| CSCE 313(Embedded Systems)(Spring Only) | 3 | | CSCE 212 | 2 Majors |
| CSCE 240(Advanced Programming Techniques) | 3 | | CSCE 215, CSCE 146 | |
| EMCH 360(Fluid Mechanics) | 3 | | EMCH 200, EMCH 290, MATH 242 | <u>Critical!!!</u> |
| EMCH 371(Materials) | 3 | | EMCH 260 | |
| EMCH 367(Controls) | 3 | | EMCH 368, EMCH 310 | |
| Semester Five(2023 Fall) 24 Credit Hours | | | | |
| ELCT 302(Real-Time Systems Laboratory) | 3 | | ELCT 301, Coreq(ELCT 331) | <u>Critical!!!</u> |
| ELCT 331(Control Systems) | 3 | | ELCT 222 | <u>Critical!!!</u> |
| ELCT 432(Fundamentals of Communication Systems) | 3 | | ELCT 321, STAT 509(Fall only) | Elective |
| ELCT 564(RF Circuit Design for Wireless Communications) | 3 | | ELCT 361 | Elective |
| CSCE 350(Data Structures & Algorithms) | 3 | | CSCE 240 | |
| EMCH 354(Heat Transfer) | 3 | | EMCH 360 | |
| EMCH 377(Manufacturing) | 3 | | EMCH 371 | |
| EMCH 362(Laboratory 2) | 3 | | EMCH 361, EMCH 360, EMCH 310 | |
| Semester Six(2024 Spring) 25 Credit Hours | | | | |
| ELCT 562(Wireless Communications) | 3 | | ELCT 361, ELCT 432 (Spring Only) | Elective |
| EMCH Elective(Possibly 460) | 3 | | N/A | Elective |
| CSCE 546(Mobile Application Development) | 3 | | CSCE 240 | Elective |
| CSCE 355(Foundations of Computation) | 3 | | CSCE 212, CSCE 350 | Elective |
| CSCE 311(Operating Systems) | 3 | | CSCE 212, CSCE 240 | |
| CSCE 416(Introduction to Computer Networks) | 3 | | CSCE 146 | |
| MATH 344(Applied Linear Algebra)(May Move Lab) | 4 | | MATH 142 | |
| MATH 374(Discrete Structures) | 3 | | MATH 142, CSCE 146 | |
| Semester Seven(2024 Fall) 24 Credit Hours | | | | |
| ELCT 403(Capstone Design Project 1) | 3 | | ELCT 302 | <u>Critical!!!</u> |
| EMCH 427(Design 1) | 3 | | EMCH 380,332,354,362,368,371 | <u>Critical!!!</u> |
| CSCE 490(Capstone Computing Project I) | 3 | | CSCE 240, CSCE 350 | <u>Critical!!!</u> |
| CSCE 611(Advanced Digital Design)(Fall Only) | 3 | | CSCE 212 | |
| CSCE 330(Programming Language Structures) | 3 | | CSCE 240, MATH 374 | Elective |
| CSCE 274(Robotic Applications & Design(Fall Only)) | 3 | | CSCE 146 | |
| ENGL 462(Technical Writing) | 3 | | ENGL 102 | |
| MUSC 110 | 3 | | | 3 Majors |
| Semester Eight(2025 Spring) 22 Credit Hours | | | | |
| ELCT 404(Capstone Design Project 2) | 3 | | ELCT 403 | <u>Critical!!!</u> |
| EMCH 428(Design 2) | 3 | | EMCH 427 | <u>Critical!!!</u> |

| | | | | |
|--|---|--|------------------------------|---------------------------|
| CSCE 491(Capstone Computer Engr. Project) | 3 | | CSCE 240, CSCE 313, CSCE 611 | <u>Critical!!!</u> |
| CSCE 492(Capstone Computing Project II) | 3 | | CSCE 490 | |
| CSCE 390(Prof. Issues in Computer Science Engr.) | 1 | | | |
| PHIL 325 | 3 | | | 3 Majors |
| HIST 111 | 3 | | | 3 Majors |
| SPCH 140 | 3 | | | 1 Major |

| | |
|----------------------------|------------|
| Credit Hours at Graduation | 265 |
|----------------------------|------------|

<----- Current

HIS 201
SPC 205