

SELECT and Approved Electives – for Electrical Engineering

* Review your online degree audit report for correct choices before and after adding courses to your schedule.

Look up semester offerings and pre-requisites online using the Schedule of Classes and/or online course descriptions.

Courses graded pass/fail or taken under 'audit' option do not qualify. Courses must be graded A-D.

'SELECT' approved elective course: Non-EE courses that require limited pre-requisite coursework and add to the knowledge and breadth of the graduate: Choose one course from this list, required AY 2013-14 and later.

| Course name | Title | Credits | Semester | Prerequisites |
|-------------|--|---------|----------------|--|
| CS1142 | Programming at H/S Interface | (0-3-0) | F,S,Sm | CS1122 or CS1131 |
| BE2400 | Cellular & Molecular Biology | (0-3-0) | Fall | CH1150 and (MA1160 or MA1161) |
| BL2010 | Anatomy & Physiology I | (3-0-0) | Fall,Sm | CH1000 or (CH1150 and CH1151) |
| CEE3501 | Environmental Engg. Fundamentals | (0-3-0) | Fall | MA2160 and CH1150 and CH1151) |
| CEE3502 | Env. Monitoring & Measurement Anal | (0-2-3) | Spg | MA2160 and CH1150 and CH1151) |
| EET/EE 3373 | Intro to Programmable Controllers | (0-2-3) | Fall | EET 1411 or (EET 2120 and EET 2141) or EET 2411 or PH 2230 or EE 2112 or EE 3010 |
| ENG 2120 | Statics-Strength of Materials | (0-4-0) | Spg | MA 2160 and PH 2100 and ENG 1102 |
| ENG 3200 | Thermodynamics/Fluid Mechanics | (0-4-0) | Fall,Spg | MA 2160 and CH 1112 or (CH 1150 and CH 1151) and PH 2100 and ENG 1102 |
| ENG 4510 | Sustainable Futures I | (3-0-0) | Fall | Junior or Senior standing |
| MEEM 2110 | Statics | (0-3-0) | Fall, Spg, Sum | COE enrolled and MA 2160 |
| MEEM 2150 | Mechanics of Materials | (0-3-0) | Fall, Spg, Sum | COE enrolled and MEEM 2110 |
| MEEM2201 | Energy-Thermal-Fluids I | (0-3-0) | Fall, Spg, Sum | COE enrolled and MA 2160 and CH 1150 and CH 1151 |
| MEEM 2700 | Dynamics | (0-3-0) | Fall, Spg, Sum | PH 2100 and (MEEM 2110 or ENG 2120) and MA 3160(C) |
| MEEM 3210 | Fluid Mechanics | (0-3-0) | Fall, Spg, Sum | MEEM 2200 and MEEM 2700(C) and (MA 3520 or MA 3521 or MA 3530 or MA 3560) Co-Req MEEM 3220 |
| MEEM 3220 | Energy Laboratory | (0-0-2) | Fall, Spg, Sum | MEEM 2200 Co-req MEEM3210 |
| MSE 2100 | Intro to Materials Science Engineering | (3-0-0) | Fall, Spg, Sum | CH 1112 or CH 1122 or (CH 1150 and CH 1151) or (CH 1160 and CH 1161] |
| MSE 4292 | Light & Photonic Materials | (3-0-0) | Fall | (PH 2200 or EE 2190 or EE 3410)] (JR or SR) |
| PH 2300 | University Physics III-Fluids and Thermodynamics | (4-0-0) | Spg | PH 1160 or PH 2100 |
| PH 2400 | University Physics IV, Waves and Modern Physics | (3-0-0) | Fall, Spg, Sum | (PH 2200 or PH 2260) |
| PH 3300 | Thermodynamics and Statistical Mechanics | (3-0-0) | Spg | PH 2300 or PH 1360 |

10-08-2018: Added: **CS1142, BL2010, BE2400, CEE3501, CEE3502** request advisor to adjust degree audit report if needed.

Approved Electives - Choose remaining credits from the list **above** or **below**. Your online degree audit shows what you yet need. The number of credits needed may vary by concentration and/or Engineering Design option.

Courses graded pass/fail or taken under 'audit' option do not qualify. Courses must be graded A-D.

Excluding all "nXXE" transfer courses (which may be reviewed for approval with syllabus),

Any MA course at least 3000 level *except MA3720 or MA4945*.

Any BL course *except BL3990*.

Any CH course number CH1152 or higher

Any PH course numbered PH1600 and higher, *except PH2230*.

MAA not accepted.

Any CS course

Any EE course *except EE3010* (maximum of **4 credits** EE)

ENG2000-ENG4890 *except ENG 2060, 3060, 4060, 4070, 2990, 3530, 3830, 3990,3993, 4160, 4900, 4905, 4910, and ENG4990*

Any BE, CE, CM *except CM3410*, GE, MEEM, MY course

EET3373, EET4373

Any ENT course *except ENT1950*

UN4000 Remote Sensing Seminar

UN3002 Co-op (3 credits maximum).

2013-14 and beyond: One course is required from the "SELECT" list and choose remaining approved elective credits from either or both lists.