

## 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.