

Science, Technology, Engineering and Mathematics (STEM) Courses

2014-2015 Academic Year

Students must take a minimum of 16 credits of Science, Technology, Engineering, and Mathematics (STEM) with the following limitations:*

- Students must complete one laboratory science course, including both the lab and the corresponding lecture.
- Students must complete a minimum of 4 credit hours in mathematics at the 1000-level or higher
- At least 12 STEM credits must be outside the student's major field of study.

**Some programs specify all 16 credits; others do not. For example, a computer science course may be required for some departments, but not others. Students should check with their academic advisor for specific requirements.*

· Lab Science (1 course)

For curricula that do not specify the lab science requirement, students can meet the requirement by taking one of the following:

BL1010	General Biology I	4
BL1020	General Biology II	4
BL1040	Principles of Biology	4
BL2011	Anatomy & Physiology Lab I (plus BL2010)	4
BL2160	Botany	4
BL2170	Zoology	4
BL3310	Environmental Microbiology	3
BL3400	Principles of Ecology	4
BL4440	Fish Biology	4
CH1151	University Chemistry Lab I (plus CH1150)	4
CH1112	University Chemistry – Studio Lab I	5
CH1122	University Chemistry – Studio Lab II	5
CH1161	University Chemistry Lab II (plus CH1160)	4
EH3700	Lifetime Fitness	3
FW1035	Wood Anatomy and Properties	4
FW2010	Vegetation of North America	4
FW3020	Forest and Landscape Ecology	3
FW3330	Soil Science	4
FW3610	Ornithology	4
FW3621	Field Ornithology Techniques	3
FW4220	Wetlands	4
FW4240	Mammalogy	4
GE2000	Understanding the Earth	3
GE2300	Earth Materials I: Mineralogy	3
GE2500	Introduction to Oceanography	3
GE3320	Earth History and Paleoclimatology	3
GE3710	Geology and Ecology of Reefs	2
GE3720	Soil Genesis and Crops	2
GE3850	Geohydrology	3
GE4100	Geomorphology and Glacial Geology	4
GE4150	Natural Hazards	3
PH1091	The Physics Behind Music Lab (plus PH1090)	4
PH1100	Physics by Inquiry I (plus PH2100)	4
PH1111	College Physics I Laboratory (plus PH1110)	4
PH1141	Applied College Physics I Laboratory (plus PH1140)	4
PH1161	Introduction to Experimental Physics I (plus PH1160)	5
PH1200	Physics by Inquiry II (plus PH2200 or PH1210 or PH1240)	4
PH1610	Introductory Astronomy Laboratory (plus PH1600)	3
SS3220	Archaeological Sciences	4

· Mathematics (4 credits)

For curricula that do not specify the mathematics requirement, students can meet the requirement by taking the following:

- 4 credits or more of any Mathematics (MA) course, 1000-level or higher, except MA4945.

· Other STEM Courses

For curricula that do not specify the remaining STEM requirement, students can meet the requirement by taking the following:

Any course listed under the lab science requirement that is not being used to satisfy the lab science requirement or by taking one of the following courses:

BUS2300, Quantitative Problem Solving (previously BA2110)
EC4200, Econometrics
EH1500, Foundations of Kinesiology
FA2701, Drafting for the Entertainment Industry
FA4701, Stage Mechanics and Rigging
FA4740, Transducer Theory
FA4741, Transducer Theory Lab
MIS2100, Intro to Business Programming (previously BA2200)
PSY2720, Statistics for Social and Behavioral Sciences
PSY3060, Physiological Psychology
SS3220, Archaeological Sciences
<i>Any course 1000 level or higher in the following disciplines:</i>
Biology (BL)
Chemistry (CH)
Computer Science (CS)
Engineering (BE, CE, CM, EE, ENG/ENT*, ENVE, GE, MEEM, MY, SSE)
Forestry (FW)
Geology (GE)
Mathematics (MA)
Physics (PH)
Technology (CMG, EET, MET, SAT, SU, TE)

Except for the following courses which may not be used to satisfy STEM requirements because they are included on the HASS list:

BL3970, CM3410, ENT2961, ENT2962, ENT3958, ENT3961, ENT3962, ENT4954, FW3110, FW3760, GE2100, GE4630, MA4945

**Except for the following ENT courses which may not be used to satisfy STEM requirements:*

ENT1960, ENT3954, ENT3963, ENT3964, ENT3971, ENT4951