

General Education: Science, Technology, Engineering and Mathematics (STEM)

15 credits required: 4 credits (minimum) from Mathematics & 7 credits (minimum) from Science

2016-2017

Students must take a minimum of 15 credits in STEM following these requirements:

- A minimum of 4 credits are required from the Mathematics list
- Complete at least two courses in two different disciplines (different course prefixes) from the Science list
 - Minimum of 7 Science credits required
 - at least one of the Science courses must include or be taken with the accompanying laboratory
- No more than 4 credits from the Restricted STEM list may be counted toward the STEM requirement
- Some courses are on the STEM list and the HASS list, but each course can satisfy only one requirement

Some degree programs specify some or all STEM requirements; students should check with their academic advisor for specific requirements

Mathematics

- Minimum of 4 credits required

BUS2300	Quantitative Problem Solving	3
MA1020	Quantitative Literacy	4
MA1030	College Algebra I <i>and</i>	
MA1031	College Algebra II with Trigonometry	6
MA1032	Precalculus	4
MA1135	Calculus for Life Sciences	4
MA1160	Calculus with Technology I	4
MA1161	Calculus Plus with Technology I	5
MA2720	Statistical Methods	4
MAA8888	Approved Math Elective (<i>transfer credit only</i>)	var
PSY2720	Statistics for the Behavioral Sciences	4
SS4010	Social Statistics	3

Science

- At least two courses in two different disciplines are required; at least one must include or be taken with the accompanying laboratory
- Courses or course-groups satisfying the laboratory requirement are designated by an asterisk (*)
- Minimum of 7 credits required

BL1010*	General Biology I	4
BL1020*	General Biology II (<i>only applies to Science list if transferred in as a first semester Biology course</i>)	4
BL1040*	Principles of Biology	4
BL2010*	Anatomy & Physiology I (plus BL2011)	4
BL2160*	Botany	4
BL2940	Human Nutrition	3
BL3970	Current Health Issues	3
BL4090	Tropical Island Biology	2
BL9900	Approved Science – Biology (<i>transfer credit only</i>)	var
BLL9900*	Approved Lab Sci – Biology (<i>transfer credit only</i>)	var
CH1112*	University Chemistry – Studio Lab I	5
CH1150*	University Chemistry I (plus CH1151/1153)	4/5
CH9900	Approved Science – Chemistry (<i>transfer credit only</i>)	var
CHL9900*	Approved Lab Sci – Chemistry (<i>transfer credit only</i>)	var
EH3100*	Exercise Assessment and Prescription	3

EH3700*	Lifetime Fitness	3
FW1035*	Wood Anatomy and Properties	4
FW2010*	Vegetation of North America	4
FW3075	Introduction to Biotechnology	3
FW3320	Fundamentals of Forest Genetics & Genomics	3
FW3330*	Soil Science	4
FW3610*	Ornithology	4
FW3620	Field Ornithology	1
FW4120	Tree Physiology	3
FW4128	Conservation Genetics	3
FW4220*	Wetlands	4
FW4240*	Mammalogy	4
FW4260*	Population Ecology	3
FW9900	Approved Sci – Forest/Env Sci (<i>transfer credit only</i>)	var
FWL9900*	Approved Lab Sci – For/Env Sci (<i>transfer credit only</i>)	var
GE2000*	Understanding the Earth	3
GE9900	Approved Science – Geology (<i>transfer credit only</i>)	var
GEL9900*	Approved Lab Sci – Geology (<i>transfer credit only</i>)	var
PH1090*	The Physics Behind Music (plus PH1091**)	4
PH1110*	College Physics I (plus PH1111)	4
PH1140*	Applied College Physics I (plus PH1141)	4
PH1160*	Honors Physics I-Mechanics (plus PH1161 or PH1100)	5
PH1600*	Introductory Astronomy (plus PH1610**)	3
PH2100*	University Physics I-Mechanics (plus PH1100)	4
PH9900	Approved Science – Physics (<i>transfer credit only</i>)	var
PHL9900*	Approved Lab Sci – Physics (<i>transfer credit only</i>)	var
SS3220*	Archaeological Sciences	4

**This laboratory is optional with the associated course. If the laboratory is not taken, the associated course can count as a Science course, but it will not satisfy the laboratory portion of the requirement.

Restricted STEM

- No more than 4 credits
- No course may count in a degree audit toward both STEM and HASS requirements

BL1020	General Biology II	4
CH1122	University Chemistry Studio Laboratory II ***	5
CH1160	University Chemistry II (plus CH1161/1163) ***	4/5
CMG1000	Introduction to Construction Management	3
CS1121	Introduction to Programming I	3
CS1122	Introduction to Programming II	3
CS1131	Accelerated Introduction to Programming ***	5
CS1142	Programming at the Hardware Software Interface	3
EC3002	Microeconomic Theory	3
EC4050	Game Theory/Strategic Behavior	3
EC4200	Econometrics	3
EET1120	Circuits I	4
EET1411	Basic Electronics	4
EH1500	Foundations of Kinesiology	3
ENG1001	Engineering Problem Solving	2
ENG1003	Introduction to Computer Aided Drafting	1
ENG1100	Engineering Analysis	2
ENG1101	Engineering Analysis and Problem Solving	3
ENG1102	Engineering Modeling and Design	3
FA2701	Drafting for the Entertainment Industry	3

FA4740	Transducer Theory	3
FA4741	Transducer Theory Lab	1
HU3700	Philosophy of Science	3
HU3701	Philosophy of Technology	3
MIS2100	Introduction to Business Programming	3
PH1210	College Physics II (plus PH1200)	4
PH1360	Honors Physics II (plus PH1361)	3
PSY3060	Physiological Psychology	3
SAT1700	Cyber Ethics	3
SS2200	Introduction to Archaeology	3
SS3210	Field Archaeology	var
SS3230	Archaeology of Industry	3
SS3250	Human Origins & Evolution	3
SS3510	History of American Technology	3
SS3511	History of Science in America	3
SS3580	Technology and Western Civilization	3
SS3820	Ethical, Legal, and Societal Implications (ELSI) of Nanotechnology	3
SS4009	Survey Methods	3
SS4050	GIS Applications for Social Science	3

***A maximum of 4 credits will count toward STEM requirements

Any course at the 2000-level or higher in the following STEM disciplines (with the exception of BE2100):

Biological Sciences (BL), Chemistry (CH), Computer Science (CS), Engineering (BE, CE, CM, EE, ENG, ENVE, GE, MEEM, MY, SSE), Forest Resources and Environmental Science (FW), Geological Sciences (GE), Mathematics (MA), Physics (PH), Technology (EET, MET, SAT, SU, TE)

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