

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

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

2021-2022

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 and	
MA1031	College Algebra II with Trigonometry	6
MA1032	Precalculus	4
MA1120	Single-Variable Calculus with Integrated Precalculus I	4
MA1135	Calculus for Life Sciences	4
MA1160	Calculus with Technology I	4
MA1161	Calculus Plus with Technology I	5
MA2720	Statistical Methods	4
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	4
BL1040*	Principles of Biology	4
BL1100*	General Biology I (plus BL1110**)	4
BL1200*	General Biology II (plus BL1210**)	4
BL1400*	Principles of Biology (plus BL1410**)	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
CH1000	Introductory Chemistry	3
CH1112*	University Chemistry – Studio Lab I	5
CH1150*	University Chemistry I (plus CH1151/1153)	4/5
FW1035*	Wood Anatomy and Properties	4
FW2010*	Vegetation of North America	4

Science cont'

FW2060	Fundamentals of Environmental Sustainability	3
FW3075	Introduction to Biotechnology	3
FW3330*	Soil Science	4
FW3610*	Ornithology	4
FW3620	Field Ornithology	1
FW4120	Tree Physiology	3
FW4128	Conservation Genetics	3
FW4240*	Mammalogy	4
FW4260*	Population Ecology	3
GE2000*	Understanding the Earth	3
KIP3100*	Exercise Assessment and Prescription	3
KIP3700*	Lifetime Fitness	3
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
SS3221*	Archaeological Sciences (plus SS3222)	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
BL1200	General Biology II	3
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
EC4100	Mathematical Economics	3
EC4200	Econometrics	3
EET1120	Circuits I	4
EET1411	Basic Electronics	4
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
HU3700	Philosophy of Science	3
HU3701	Philosophy of Technology	3
KIP1500	Foundations of Kinesiology	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

Restricted STEM cont'

SAT1700	Cyber Ethics	3
SND4120	Transducer Theory	3
SND4121	Transducer Theory Lab	1
SS2050	Fundamentals of GIS	3
SS2200	Introduction to Archaeology	3
SS3210	Field Archaeology	var
SS3230	Archaeology of Industry	3
SS3250	Biological Anthropology	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
THEA2310	Drafting for the Entertainment Industry	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 exceptions of BE2100, CM3410, ENG2060, ENG3060, ENG4060, and ENG4070):

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

APPROVED TRANSFER COURSES

The following courses are available **ONLY** by transfer.

Mathematics

MA1XXX Approved Transfer STEM Math Elective var

Science

BL1XXX Approved Transfer Science-Biology var
 BL2XXX Approved Transfer Science-Biology var
 BLL1XXX* Approved Transfer Lab Science-Biology var
 BLL2XXX* Approved Transfer Lab Science-Biology var
 CH1XXX Approved Transfer Science-Chemistry var
 CH2XXX Approved Transfer Science-Chemistry var
 CHL1XXX* Approved Transfer Lab Science-Chemistry var
 CHL2XXX* Approved Transfer Lab Science-Chemistry var
 FW1XXX Approved Transfer Science-Forestry var
 FW2XXX Approved Transfer Science-Forestry var
 FWL1XXX* Approved Transfer Lab Science-Forestry var
 FWL2XXX* Approved Transfer Lab Science-Forestry var
 GE1XXX Approved Transfer Science-Geology/Mining var
 GE2XXX Approved Transfer Science-Geology/Mining var
 GEL1XXX* Approved Transfer Lab Science-Geology/Mining var
 GEL2XXX* Approved Transfer Lab Science-Geology/Mining var
 KIP1XXX Approved Transfer Science-Kinesiology var
 KIP2XXX Approved Transfer Science-Kinesiology var
 KIPL1XXX* Approved Transfer Lab Science-Kinesiology var
 KIPL2XXX* Approved Transfer Lab Science-Kinesiology var
 PH1XXX Approved Transfer Science-Physics var
 PH2XXX Approved Transfer Science-Physics var
 PHL1XXX* Approved Transfer Lab Science-Physics var
 PHL2XXX* Approved Transfer Lab Science-Physics var
 SCI1XXX Approved Transfer Science var
 SCI2XXX Approved Transfer Science var
 SCIL1XXX* Approved Transfer Lab Science var
 SCIL2XXX* Approved Transfer Lab Science var

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