

# Physical Science Electives

Course	Units	Pre-Reqs	GE Areas
ASTR 231 - Intro to Obs Astr	2	ASTR 100	B1 or B3 and lab
ASTR 303 - Life in the Universe	3		B3
ASTR 305 - Frontiers in Astronomy	3	ASTR 100	B3
ASTR 331 - Astronomical Imaging	2	ASTR 231	
ASTR 350 - Cosmology	3	ASTR 100	B3
BIOL 110 - Biological Inquiry	4		B2 and lab
BIOL 130 - Intro to Cell Bio and Genetics	4	Concurrent CHEM 115A Rec.	B2 and lab
BIOL 131 - Bio Diversity and Ecology	4	BIOL 130 Recommended	B2 and lab
BIOL 308 - Environmental Toxicology	3	BIOL 110, 115, or 130 and 131	B3
BIOL 309 - Biology of Cancer	3	BIOL 110, 115, or 130 and 131	B3
BIOL 311 - Sexually Transmitted Diseases	3	BIOL 110, 115, or 130 and 131	B3
BIOL 312 - Biological Oceanography	3	BIOL 110, 115, or 130 and 131	B3
BIOL 314 - Field Biology	4	BIOL 110, 115, or 130 and 131	B3 and lab
BIOL 318 - Biology of Aging	3	BIOL 110, 115, or 130 and 131	E
BIOL 385 - Contemporary Issues in Bio	3	BIOL 110, 115, or 130 and 131	B3
CHEM 102 - Chemistry and Society	3		B1 and lab
CHEM 105 - Elements of General, Organic, and BioChemistry	5		B1 and lab
CHEM 110 - Intro General Chemistry	3		B1
CHEM 115A - General Chemistry	5		B1 and lab
CHEM 115B - General Chemistry	5	CHEM 115A	B1 and lab
CHEM 492 - Chem Seminar Series	1 (≤3x)		

CS 101 - Intro to Computers and Computing	3		B3
CS 210 - Intro to Unix	1	CS 115 and Conc. CS 215	
CS 215 - Programming II	4	CS 115 and Conc. CS 210	
CS 242 - Discrete Structures for Computer Science	4	CS 115 and MATH 161	
CS 390 - Computer Science Colloquium	1 (≤3x)		
EE 110 - Intro to Engineering and Laboratory Experience	1	GE Math	
EE 112 - Fundamentals of Digital Design Logic	1	GE Math	
EE 497 - Engineering Science Colloquium	1 (≤3x)		
ES 101 - Disruptive Technologies that Change the World	3	GE math eligible	B3
ES 102 - Introduction to Engineering Technology Laboratory	1	Encouraged to be take concurrently with ES 101	lab
ES 104 - Oral Communications in the Information Age	3		A1
GEOL 102 - Our Dynamic Earth: Introduction to Geology	3		B1 and lab
GEOL 105 - Age of the Dinosaurs	3		B1
GEOL 107 - Intro to Earth Science	3		
GEOL 110 - Natural Disasters	3		B3
GEOL 301 - Natural History of the Hawaiian Islands	3	BIOL 115 or 130A and 130B	B3
GEOL 302 - Climate Change: Discerning Fact from Fiction	3	One of: GEOL 102, 105, 107, 110, or 120; ANTH 201, ENSP 309, BIOL 310, or GEOG 204 or GOP 201	B3
GEOL 303 - Advanced Principles of Geology	4	One of: GEOL 102, 105, 107, 110, or 120; ANTH 201, ENSP 303, ENSP 309, BIOL 310, or GEOG 204	B3

GEOL 323 - Hydrology	3	GEOL 102, MATH 160	
KIN 217 - Personal Fitness and Wellness	3		E
KIN 316 - Women in Sport: Issues, Images, and Identities	3		E
MATH 150 - Modern Geometry	3		B4
MATH 150A/B - Transformational Geometry	3		B4
MATH 161 - Calculus I	4		B4
MATH 161A/B - Functions and Rates of Change	4		B4
MATH 161X - Calculus I Extended	6		B4
MATH 165 - Elementary Applied Stats	4		B4
MATH 165A/B - Data Visualization and Analysis	4		B4
MATH 165X - Elementary Applied Stats Extended	6		B4
MATH 175 - Math Colloquium	1		
MATH 200 - Discrete Mathematics	3	GE math course	
MATH 210 - Intro to Proof			
MATH 222 - Linear Algebra	3	MATH 160	
NURS 370 - Health Promotion for Racially Diverse Populations	3		
NURS - 480 - Health, Sexuality, and Society	3	Upper-division Standing	E
NURS 490 - The Sexual Imperative: History, Media, Culture, and Imagination	4		C2
PHYS 100 - Descriptive Physics	3		B1 or B3
PHYS 300 - Physics of Music	3		B3

PHYS 313 - Electronics	3	MATH 160 or MATH 161, MATH 161B or MATH 161X, PHYS 210B or 214. Conc. PHYS 313L	
PHYS 313L - Electronics Laboratory	1	MATH 160 or MATH 161, MATH 161B or MATH 161X, PHYS 210B or 214. Conc. PHYS 313.	
PHYS 396 - Selected Topics in Physics	1-4		
PHYS 494 - Physics Seminar	1 (≤3x)	Consent of Instructor	
SCI 120A - A Watershed Year	6	GE Math Ready	Lab, A3 (2), B2 (2), and B4 (2)
SCI 120B - A Watershed Year	6	SCI 120A	A3 (2), B2 (2), and B4 (2)
SCI 150 - Intro to Careers in Health Professions	1		
SCI 220 - Dream, Make, and Innovate	2		E