

Fall	Winter	Spring	Course	Credits
<b>Chemistry</b>				
F	W	S	161 General CHEM I Lecture/Lab [Prerequisite: Math 114 (or higher) or equivalent math placement test score]	5
F	W	S	162 General CHEM II Lecture/Lab [Prerequisite: CHEM 161]	5
F	W	S	163 General CHEM III Lecture/Lab [Prerequisite: CHEM 162]	5
F			175 General CHEM I, Honors Lecture/Lab [Prerequisite: Invitation Only]	5
	W		176 General CHEM II, Honors Lecture/Lab [Prerequisite: CHEM 175]	5
		S	225 General CHEM III, Honors Lecture/Lab [Prerequisite: CHEM 176]	5
F	W		333 Analytical CHEM Lecture/Lab [Prerequisite: CHEM 163]	5
F			461 Physical Chemistry Lecture [Prerequisite: one year each of general chemistry, calculus and physics]	4
	W		462 Physical Chemistry Lecture II [Prerequisite: CHEM 461]	3
		S	463 Physical Chemistry Lecture III [Prerequisite: CHEM 462]	3
F			251 Elementary Organic Chemistry [Prerequisite: CHEM 161 or 175]	5
F		S	375 Elements of Biochemistry [Prerequisite: CHEM 251 or Organic Chemistry Series]	4
F	W	S	351 Organic CHEM Lecture I [Prerequisite: CHEM 163 (or concurrent)]	4
F	W	S	352 Organic CHEM Lecture II [Prerequisite: CHEM 351]	4
F	W	S	353 Organic CHEM Lecture III [Prerequisite: CHEM 352]-----	3
F	W	S	354 Organic CHEM Lab I [Prerequisite: CHEM 352 (or concurrent)]	3
		S	375 Elements of Biochemistry ~OR~	3
F	W		471 Biochemistry Lecture I [Prerequisite: CHEM 163 (or 175), 353 (or concurrent); BIOL 205]	4
	W	S	472 Biochemistry Lecture II [Prerequisite: CHEM 471]	4
		S	473 Molecular Biology Lecture [Prerequisite: CHEM 472; BIOL 321 or 323 (or permission of instructor)]	3
F			474 Biochemistry Lab [Prerequisite: CHEM 163, 353, 354 (or BIOL 324), BIOL 205; CHEM 471 (or concurrent); CHEM 333 recommended]	
<b>Biology</b>				
F	W	S	204 Intro to Evolution, Ecology & Biodiversity Lecture/Lab [Prerequisite: CHEM 161 (or concurrent)]	5
F	W	S	205 Intro to Cell/Molecular Biology Lecture/Lab [Prerequisite: BIOL 204; CHEM 162 (or concurrent)]	5
F	W	S	206 Intro to Organismal Biology [Prerequisite: BIOL 205; CHEM 162/176; CHEM 163/225 (or concurrent)]	5
F	W	S	321 Genetics [Prerequisite: BIOL 204, BIOL 205, BIOL 206]	4
F		S	322 Genetics Lab [Prerequisite: BIOL 321] ~OR~	4
F	W	S	324 Methods in Molecular Biology with Lab [Prerequisite: BIOL 321 or 323]	4
F	W	S	323 Cell and Molecular Biology [Prerequisite: CHEM 351 and CHEM 352 (may be taken concurrently)]	4
F	W	S	325 Ecology [Prerequisite: BIOL, 204, BIOL 205, BIOL 206]	3
F		S	326 Ecology Lab [Prerequisite: BIOL 325 or concurrent; or ESCI 325]	3
F	W	S	432 Evolutionary Biology [Prerequisite: BIOL 321]	4
<b>Physics &amp; Astronomy</b>				
F	W		114 Principles of Physics I [Prerequisite: MATH 124 (or concurrent)]	5
	W	S	115 Principles of Physics II [Prerequisite: PHYS 114; MATH 124]	5
F		S	116 Principles of Physics III [Prerequisite: PHYS 115; MATH 124]	5
F	W		161 Physics w/ Calculus I Lecture [Prerequisite: MATH 124 (or concurrent)]	5
	W	S	162 Physics w/ Calculus II Lecture [Prerequisite: PHYS 161; MATH 124]	5
F		S	163 Physics w/ Calculus III Lecture [Prerequisite: PHYS 162; MATH 124]	5
F			226 Physics w/ Calculus IV [Prerequisite: PHYS 163; MATH 124]	3
	W		224 Modern Physics I [Prerequisite: PHYS 163, MATH 203 or 204 (see Note #2 on previous page)]	3
		S	225 Modern Physics II [Prerequisite: PHYS 224, MATH 303 or 331 (see Note #2 on previous page)]	3

	W		326 Tools and Data Analysis [Prerequisite: PHYS 163, MATH 203 or 204 (see Note #2 on previous page), CS 140]	3
F			ASTR 315 - The Solar System [PHYS 114-116 or PHYS 161-163]	3
<b>Math</b>				
F	W	S	124 Calculus & Analytic Geometry Lecture [Prerequisite: see catalog] ~AND~	5
F	W	S	125 Calculus & Analytic Geometry Lecture [Prerequisite: MATH 124] ~OR~	5
F			134 Calculus I, Honors [Prerequisite: see catalog] ~AND~	5
	W		135 Calculus II, Honors [Prerequisite: MATH 124 or MATH 134, and permission of instructor] ~OR~	5
F			138 Accelerated Calculus [Prerequisite: see catalog]	5
F	W	S	224 Multivariable Calculus & Geometry Lecture [Prerequisite: MATH 125 or 138]	5
F	W	S	204 Elementary Linear Algebra [Prerequisite: MATH 125 or 135; MATH 224 recommended] ~AND~	4
F	W	S	331 Ordinary Differential Equations [Prerequisite: MATH 204; MATH 224 recommended] ~OR~	4
-	-	-	203 Linear Algebra and Differential Equations I [Prerequisite: MATH 125 or 138 or equivalent] ~AND~	4
-	-	-	303 Linear Algebra and Differential Equations II [Prerequisite: MATH 203]	4
F	W	S	309 Introduction to Proof in Discrete Mathematics [Prerequisite: MATH 125]	4
F			360 Euclidean and Non-Euclidean Geometry [Prerequisite: MATH 124 or 135 or 138; MATH 204 and 302 or 309]	4
F	W	S	419 Historical Perspectives of Mathematics [Prerequisite: 12 credits upper-division math]	3
		S	483 Method of Teaching Secondary Mathematics [Prerequisite: Minimum of two upper-division math courses, SEC 431, or permission of instructor]	4
	W	S	307 Mathematical Computing [Prerequisite: MATH 125 or 135 or 138; MATH 204]	4
F	W	S	341 Probability and Statistical Inference [Prerequisite: MATH 124 or 125 or 138]	4
F			410 Mathematical Modeling [Prerequisite: MATH 204, 224 and 331]	4
<b>Science Education</b>				
F		S	370 Science & Society (WP3) [Prerequisite: Completion of science GUR's and 90 credits or instructor permission]	3
F	W		481 Fundamentals of Teaching in Science [Prerequisite: CHEM 163 or 225, or GEOL 212, or BIOL 206, or PHYS 163]	2
		S	491 Methods in Secondary Education for Science Teachers [Prerequisite: Admission to Secondary Teaching program and a major or concentration in natural sciences; SEC 431 or 532; SCED 481]	5
<b>Secondary Education</b>				
F	W		303 Teaching Adolescents: Development and Identity [Prerequisite: Admission to Woodring or permission of instructor or chair]	4
F	W		310 Education, Culture, and Equity [Prerequisite: Admission to Woodring or permission of instructor or chair]	4
F	W		410 Dynamics of Teaching [Prerequisite: Admission to Secondary Education]	2
	W	S	411 Philosophical Foundations of Education [Prerequisite: SEC 410]	4
F	W	S	425 Developmental Reading, Writing & Learning in Secondary Schools [Prerequisite: SEC 431]	4
F	W		430 Secondary School Methods [Prerequisite: Admission to Secondary Education, SEC 410 concurrent]	4
	W	S	431 Secondary School Methods II [Prerequisite: SEC/EDUC 301; SEC 410, 430 or equiv., SEC 435 concurrent]	4
F		S	432 Secondary School Methods III [Prerequisite: SEC 430, 431 and SEC 433 & 436 concurrent]	4
F	W	S	433 Teaching Laboratory [Prerequisite: SEC 431 or 533 or instructor permission, SEC 436 concurrent]	1
	W	S	435 Secondary Practicum I [Prerequisite: Concurrent registration in SEC 431 or 533, or instructor permission]	2
F		S	436 Secondary Practicum II [Prerequisite: SEC 433 concurrent & SEC 432 or 534, or instructor permission]	1
F	W	S	495 Internship – Secondary [Prerequisite: Recommendation for supervised teaching]	18
<b>Special Education</b>				
F		S	363 Secondary Students w/Special Needs [Prerequisite: Admission to Woodring or permission of instructor]	4
<b>Other Areas</b>				
F		S	IT 344 Tech in Teaching and Learning [Prerequisite: Admission to Woodring or permission of instructor]	1
	W	S	IT 444 Supporting Teaching & Learning w/Technology [Prerequisite: SEC 430; IT 344 or portfolio of basic technology skills, SEC 431 and 435 concurrent]	2
F	W	S	CSCI 140 Computer Programming w/Lab [Prerequisite: MATH 112, 114, 115, 118, 124, 125, 134, 138, or 156]	4