ll Term				Spring Ter	m		
	Course		Required Credit	oping rei	Course		Required
ourse	Number	Course Group/Description	Hours	Course	Number	Course Group/Description	Credit Hou
BIOL	1306	Biology for Science Majors I	3	BIOL	1307	Biology for Science Majors II	3
BIOL	1106	Biology for Science Majors I Lab	1	BIOL	1107	Biology for Science Majors II Lab	1
HEM	1311	General Chemistry I	3	CHEM	1312	General Chemistry II	3
CHEM	1111	General Chemistry I Lab	1	CHEM	1112	General Chemistry II Lab	1
ENGL	1301	Rhetoric and Composition	3	ENGL	1302	Research and Argument	3
		Core SPCH	3	JTCH	1102	Step Two (Step II: Inquiry-Based Lesson Design	1
JTCH	1101	Step One (Step I: Inquiry Approaches to STEM Teaching	1	MATH	1342	Introduction to Probability and Statistics	3
		Total Semester Hours	15			Total Semester Hours	15
econd				_			
ll Term				Spring Ter			
	Course		Required Credit		Course		Required
Course	Number	Course Group/Description	Hours	Course	Number	Course Group/Description	Credit Hou
BIOL	2361	Plant Form-Function	3	BIOL	2371	Animal Form-Function	3
BIOL	2061	Plant Form and Funcation Lab	0	BIOL	2071	Animal Form-Function Lab	0
BIOL	3453	Genetics	4	ENGL	2311	Technical and Scientific Writing	3
BIOL	3053	Genetics Lab	0			Core CA	3
		Core LPC	3			Bio Teach Sciences	3
		Elective	2			Bio Teach Lab	1
JTCH	3301	Knowing and Learning	3	JTCH	3311	Classroom Interactions	3
	-						
		Total Semester Hours	15			Total Semester Hours	16
hird Yo	ear			Spring Ter	m	_	_
ll Term	Course		Required Credit	Spring Ter	Course		
III Term Course	Course Number	Course Group/Description	Hours	Course	Course Number	Course Group/Description	Credit Hou
II Term Course BIOL	Course Number 3421	Microbiology for Science Majors	Hours 4	Course BIOL	Course Number 3481	General Ecology	Credit Hou 3
II Term Course BIOL BIOL	Course Number 3421 3021	Microbiology for Science Majors Microbiology for Science Majors Lab	Hours 4 0	Course BIOL BIOL	Course Number 3481 3081	General Ecology General Ecology Lab	Credit Hou 3 0
Dill Term Course BIOL BIOL JTCH	Course Number 3421 3021 3361	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives	Hours 4 0 3	Course BIOL BIOL BIOL	Course Number 3481 3081 3440	General Ecology General Ecology Lab Animal (Including Human) Physiology	Credit Hou 3 0 4
BIOL BIOL JTCH MATH	Course Number 3421 3021 3361 2313	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I	Hours 4 0 3 3	Course BIOL BIOL BIOL BIOL	Course Number 3481 3081 3440 3040	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab	Credit Hou 3 0 4 0
BIOL BIOL JTCH MATH	Course Number 3421 3021 3361	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab	Hours 4 0 3 3 1	Course BIOL BIOL BIOL	Course Number 3481 3081 3440	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I	Credit Hou 3 0 4 0 3
Dill Term Course BIOL BIOL JTCH MATH	Course Number 3421 3021 3361 2313	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I	Hours 4 0 3 3	Course BIOL BIOL BIOL BIOL HIST	Course Number 3481 3081 3440 3040 1301	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS	Credit Hou 3 0 4 0 3 3 3
BIOL BIOL JTCH MATH	Course Number 3421 3021 3361 2313	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab	Hours 4 0 3 3 1	Course BIOL BIOL BIOL BIOL	Course Number 3481 3081 3440 3040	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I	Credit Hou 3 0 4 0 3
all Term Course BIOL BIOL	Course Number 3421 3021 3361 2313	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab	Hours 4 0 3 3 1	Course BIOL BIOL BIOL BIOL HIST	Course Number 3481 3081 3440 3040 1301	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS	0 4 0 3 3
BIOL BIOL JTCH MATH	Course Number 3421 3021 3361 2313	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science	Hours 4 0 3 3 1 3	Course BIOL BIOL BIOL BIOL HIST	Course Number 3481 3081 3440 3040 1301	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods	Credit Hou 3 0 4 0 3 3 3 3
II Term Course BIOL BIOL JTCH MATH MATH	Course Number 3421 3021 3361 2313 2113 	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science	Hours 4 0 3 3 1 3	Course BIOL BIOL BIOL BIOL HIST	Course Number 3481 3081 3440 3040 1301	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods	Credit Hou 3 0 4 0 3 3 3 3
BIOL BIOL JTCH MATH MATH	Course Number 3421 3021 3361 2313 2113 	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science	Hours 4 0 3 3 1 3	Course BIOL BIOL BIOL HIST JTCH	Course Number 3481 3081 3440 3040 1301 4351	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods	Credit Hou 3 0 4 0 3 3 3 3
BIOL BIOL JTCH MATH	Course Number 3421 3021 3361 2313 2113 2113 Vear	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science	Hours 4 0 3 1 3 1 1 14	Course BIOL BIOL BIOL BIOL HIST	Course Number 3481 3081 3440 3040 1301 4351	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods	Credit Hou 3 0 4 3 3 3 3 16
II Term	Course Number 3421 3021 3361 2313 2113 2113 Year Course	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours	Hours 4 0 3 1 3 1 14 Required Credit	Course BIOL BIOL BIOL HIST JTCH	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours	Credit Hou 3 0 4 3 3 3 3 16 Required
II Term BIOL BIOL JTCH MATH MATH Durth II Term Course	Course Number 3421 3021 3361 2313 2113 2113 Vear	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description	Hours 4 0 3 1 3 1 1 3 1 1 Required Credit Hours	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description	Credit Hou 3 0 4 3 3 3 3 16 Required Credit Hou
II Term BIOL BIOL JTCH MATH MATH MATH II Term Course BIOL	Course Number 3421 3361 2313 2113 2113 Vear Year	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy	Hours 4 0 3 1 3 1 1 3 1 4 Required Credit Hours 4	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term BIOL BIOL	Course Number 3421 3021 3361 2313 2113 2113 Year Year Course Number 3443 3043	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab	Hours 4 0 3 1 3 1 1 3 1 1 4 Required Credit Hours 4 0	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description	Credit Hou 3 0 4 3 3 3 3 16 Required Credit Hou
II Term BIOL BIOL JTCH MATH MATH II Term BIOL BIOL BIOL	Course Number 3421 3021 2313 2113 2113 2113 2113 2113 21	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution	Hours 4 0 3 1 3 1 1 3 1 4 0 1 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term Course BIOL BIOL	Course Number 3421 3021 3361 2313 2113 2113 Year Year Course Number 3443 3043	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab	Hours 4 0 3 1 3 1 1 3 1 1 4 Required Credit Hours 4 0	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term BIOL BIOL BIOL	Course Number 3421 3021 2313 2113 2113 2113 2113 2113 21	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution	Hours 4 0 3 1 3 1 1 3 1 4 0 1 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term BIOL BIOL BIOL BIOL	Course Number 3421 3021 3361 2313 2113 2113 2113 2113 2113 21	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution Seminar in Biology	Hours 4 0 3 1 3 1 1 3 1 4 0 1 8 8 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 0 3 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term BIOL BIOL BIOL BIOL BIOL GOVT	Course Number 3421 3021 3361 2313 2113 2113 2113 2113 2113 21	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution Seminar in Biology Federal Government	Hours 4 0 3 1 3 1 1 3 1 4 0 1 4 0 1 4 0 1 4 0 1 1 0 1 1 1 1 1	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 0 3 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term Course BIOL BIOL BIOL BIOL BIOL BIOL BIOL BIOL	Course Number 3421 3021 3361 2313 2113 2113 2113 2113 2113 2013 201	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution Seminar in Biology Federal Government United States History II PBI (Project Based Instruction)	Hours 4 0 3 1 3 1 1 3 1 1 3 1 4 0 1 4 0 1 4 0 1 1 1 1 1 1 1 1 1 1 1	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government Apprentice Teaching	Credit Hou 3 0 4 0 3 3 3 16 Required Credit Hou 3 9 - - - - - - - - - - - - -
II Term BIOL BIOL JTCH MATH MATH MATH II Term BIOL BIOL BIOL BIOL BIOL BIOL BIOL BIOL	Course Number 3421 3021 3361 2313 2113 2113 2113 2113 2113 2013 201	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution Seminar in Biology Federal Government United States History II	Hours 4 0 3 1 3 1 1 3 1 4 0 4 0 3 1 4 0 4 0 3 4 0 3 1 1 3 1 3 3 1 3 3 3 3	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government	Credit Hou 3 0 4 0 3 3 3 3 3 16 Required Credit Hou 3
II Term BIOL BIOL JTCH MATH MATH II Term BIOL BIOL BIOL BIOL BIOL BIOL BIOL BIOL	Course Number 3421 3021 3361 2313 2113 2113 2113 2113 2113 2013 201	Microbiology for Science Majors Microbiology for Science Majors Lab Perspectives Calculus I Calculus I Lab Computer Science Total Semester Hours Course Group/Description Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab Evolution Seminar in Biology Federal Government United States History II PBI (Project Based Instruction)	Hours 4 0 3 1 3 1 1 3 1 1 3 1 4 0 1 4 0 1 4 0 1 1 1 1 1 1 1 1 1 1 1	Course BIOL BIOL BIOL HIST JTCH Spring Ter Course GOVT	Course Number 3481 3081 3440 3040 1301 4351 4351 m Course Number 2306	General Ecology General Ecology Lab Animal (Including Human) Physiology Animal (Including Human) Physiology Lab United States History I Core S/BS Research Methods Total Semester Hours Course Group/Description Texas Government Apprentice Teaching	Credit Hou 3 0 4 0 3 3 3 16 Require Credit Hou 3 9 - - - - - - - - - - - - -

Course Group Key	ı	
Course Group Name Credit Ho	urs Courses	in Groun
	courses	
Core SPCH 3		
Public Speaking	SPCH	1315
Interpersonal Communication	SPCH	1318
Teamwork and Group Communication	SPCH	2333
Core LPC 3	ENICI	2225
Literary Genres Introduction to Mythology	ENGL	2335 2309
British Literature to 1800	ENGL	2303
British Literature from 1800	ENGL	2323
American Literature to 1865	ENGL	2327
American Literature from 1865	ENGL	2328
World Literature to 1650	ENGL	2332
World Literature from 1650	ENGL	2333
Introduction to Literature	ENGL	2341
	2.1102	2011
Western Civilization I	HIST	2311
Western Civilization II	HIST	2312
World Civilizations I	HIST	2321
World Civilizations II	HIST	2322
Introduction to Philosophy	PHIL	1301
Introduction to World Religions	PHIL	1304
Introduction to Ethics	PHIL	2306
Core CA 3		
Art Appreciation	ARTS	1301
Art History I (Prehistoric to the 14th century)	ARTS	1303
Art History II (14th Century to the present)	ARTS	1304
Dance Appreciation	DANC	2303
Theatre Appreciation	DRAM	1310
Film and Culture	DRAM	2366
Intro to Music Literature	мимн	1307
	WOWN	1507
Music Appreciation	MUSI	1306
Core S/BS 3		
Cultural Anthropology	ANTH	2351
Principles of Macroeconomics	ECON	2301
Principles of Microeconomics	ECON	2302
Intro to Human Dimensions and Recreation	FORS	2351
World Regional Geography Survey of Mass Communication	GEOG MCOM	1303 1307
General Psychology	PSYC	2301
Introduction to Sociology	SOCI	1301
	3001	1301
Bio Teach Sciences 3-4 Classical and Modern Astronomy	ASTR	1303
Organic Chemistry I	CHEM	3331
Organic Chemistry I	CHEIVI	2221
- '		
Organic Chemistry II	CHEM	3332
	CHEM	1303
Organic Chemistry II		
Organic Chemistry II Introductory Geology	GEOL	1303
Organic Chemistry II Introductory Geology Historical Geology	GEOL GEOL	1303 1304
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat	GEOL GEOL PHYS	1303 1304 1301
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat Electricity, Sound and Light	GEOL GEOL PHYS PHYS	1303 1304 1301 1302
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat Electricity, Sound and Light Introduction to Data Analytics	GEOL GEOL PHYS PHYS	1303 1304 1301 1302
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat Electricity, Sound and Light Introduction to Data Analytics Bio Teach Lab 1	GEOL GEOL PHYS PHYS CSCI	1303 1304 1301 1302 1462
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat Electricity, Sound and Light Introduction to Data Analytics Bio Teach Lab 1 Classical and Modern Astronomy Lab	GEOL GEOL PHYS PHYS CSCI ASTR	1303 1304 1301 1302 1462 1103
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat Electricity, Sound and Light Introduction to Data Analytics Bio Teach Lab I Classical and Modern Astronomy Lab Organic Chemistry I Lab Organic Chemistry II Lab	GEOL GEOL PHYS PHYS CSCI ASTR CHEM	1303 1304 1301 1302 1462 1103 3131
Organic Chemistry II Introductory Geology Historical Geology Mechanics and Heat Electricity, Sound and Light Introduction to Data Analytics Bio Teach Lab Classical and Modern Astronomy Lab Organic Chemistry I Lab	GEOL GEOL PHYS PHYS CSCI ASTR CHEM CHEM	1303 1304 1301 1302 1462 1103 3131 3132