BIOLOGY (BA) - SECONDARY EDUCATION TRACK

Program Overview

This degree combines broad training in biology with preparation for K-12 teaching through UTeach Columbus (https:// uteach.columbusstate.edu/).

All educator preparation programs are approved by the Georgia Professional Standards Commission. In addition to the degree requirements, there are further requirements for teaching certification. Visit the Certification page (https://cqtl.columbusstate.edu/ certification.php) on the CSU Center for Quality Teaching and Learning (CQTL) website for detailed information about certification requirements and the certification process.

Career Opportunities

Middle or high school teaching in biology

Program of Study

	•	
Code	Title	Credit Hours
Core IMPACTS A	rea : Institutional Priorities ¹	4-5
COMM 1110	Public Speaking	3
ITDS 1779	Scholarship Across the Disciplines	2
LEAD 1705	Introduction to Servant Leadership	2
PERS 1506	Perspectives 1-hour	-
PERS 1507	Perspectives 2-hour	2
Foreign Languag	•	
ARAB, CHIN, F	REN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PO 002, 2001, 2002	RT,
SWAH 1001	Elementary Swahili I	
SWAH 1002	Elementary Swahili II	
Core IMPACTS A	rea : Mathematics & Quantitative Skills ¹	3-7
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
Core IMPACTS A	rea : Political Science and U.S. History	6
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3
Core IMPACTS A	rea : Arts, Humanities, and Ethics	6
Select one Fine A	arts course	3

ARTH 1100Art AppreciationARTH 2125Introduction to the History of Art I- Prehistoric through GothicARTH 2126Introduction to the History of Art II- Renaissance through ModernMUSC 1100Music AppreciationTHEA 1100Theatre AppreciationTHEA 1100Theatre AppreciationTHEA 1100Theatre AppreciationITDS 1145Comparative Arts 2Select one Humanities courseENGL 2111World Literature IENGL 2112ITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition ICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy. The Solar SystemASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the WeatherASTR 1105Survey of Chemistry IBIOL 1125KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry IBIOL 1125KIntroductory BiologyBIOL 1125Contemporary Issues in Biology with LabCHEM 1151and Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1152Introduction to Computing Principles and TechnologyCPSC 1105Introductory Geoscience IENVS 1105L <th></th> <th></th> <th></th>			
through GothicARTH 2126Introduction to the History of Art II – Renaissance through ModernMUSC 1100Music AppreciationTHEA 1100Theatre AppreciationTHEA 1100Theatre AppreciationITDS 1145Comparative Arts 2Select one Humanities courseENGL 2111World Literature IENGL 2112TDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingTENGL 1101English Composition IENGL 1102English Composition ICore IMPACTS Area : Technology, Mathematics, and Sciences 17ANTH 1145Human OriginsASTR 1105Descriptive Astronomy. The Solar SystemASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125KContemporary Issues in Biology Non-LabBIOL 1125KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry IA 1152and Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1152Introduction to Computing Principles and TechnologyCHEM 1152Environmental StudiesCHEM 1152Environmental StudiesCHEM 1152Environmental StudiesCHEM 1152Environmental StudiesCHEM 1152 <td< td=""><td>ARTH 1100</td><td>Art Appreciation</td><td></td></td<>	ARTH 1100	Art Appreciation	
through ModernMUSC 1100Music AppreciationTHEA 1100Theatre AppreciationTHEA 1100Theatre AppreciationITDS 1145Comparative Arts 2Select one Humanities courseENGL 2111ENGL 2111World Literature IENGL 2112World Literature IIITDS 1145Comparative Arts 2Core IMPACTS Area: Communicating in WritingENGL 1101English Composition IENGL 1102English Composition IICore IMPACTS Area: Technology, Mathematics, and Sciences 17ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1125Contemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1152and Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Introductory Geoscience I: Physical GeologyGool 1120Natural Disasters: Our Hazardous EnvironmentGEOG 2215Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geos	ARTH 2125		
MUSC 1100Music AppreciationTHEA 1100Theatre AppreciationITDS 1145Comparative Arts 2Select one Humanities courseENGL 2111World Literature IENGL 2112World Literature IIITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy Stars and GalaxiesASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1125Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1151Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1214Computer Science IENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Introductory Geoscience I: Physical Geology LabGEOL 1121Introductory Geoscience I: Physical	ARTH 2126	· · · · · · · · · · · · · · · · · · ·	
THEA 1100Theatre AppreciationITDS 1145Comparative Arts 2Select one Humanities courseENGL 2111World Literature IITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition IENGL 1102English Composition ICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy: Stars and GalaxiesASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1125Contemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 11521and Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1152Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1215Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Introductory Geo-science I: Physical GeologyGEOL 1121Introductory Geo-sciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical Geolog	MUSC 1100		
ITDS 1145Comparative Arts 2Select one Humanities courseENGL 2111World Literature IITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition ICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy: Stars and GalaxiesASTR 1105Descriptive Astronomy LabASTR 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1125Contemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1152and Survey of Chemistry I LabCHEM 1152Principles of Chemistry I LabCHEM 1151Auryey of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1214Computer Science IENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I:			
Select one Humanities courseENGL 2111World Literature IITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition IEnglish Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 17ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1225KContemporary Issues in Biology with LabCHEM 1152Survey of Chemistry IA and Survey of Chemistry IIAB Survey of Chemistry II LabCHEM 1152Survey of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Ch		0	
ENGL 2111World Literature IENGL 2112World Literature IIITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts ² Core IMPACTS Area : Communicating in WritingENGL 1101English Composition IEnglish Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences ¹ 7ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1105Descriptive Astronomy LabASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1225KContemporary Issues in Biology Non-LabBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry II& 1152Land Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212And Princ	Select one Humar		3
ENGL 2112 World Literature II ITDS 1774 Introduction to Digital Humanities PHIL 2010 Introduction to Philosophy ITDS 1145 Comparative Arts ² Core IMPACTS Area : Communicating in Writing ENGL 1101 English Composition I ENGL 1102 English Composition II Core IMPACTS Area : Technology, Mathematics, and Sciences ¹ 7- ANTH 1145 Human Origins ASTR 1105 Descriptive Astronomy: The Solar System ASTR 1106 Descriptive Astronomy: The Solar System ASTR 1106 Descriptive Astronomy Lab ATSC 1112 Understanding the Weather ATSC 1112 Understanding the Weather Lab BIOL 1125 Contemporary Issues in Biology Non-Lab BIOL 1125 Contemporary Issues in Biology with Lab CHEM 1151 Survey of Chemistry I & 1151L and Principles of Chemistry I Lab CHEM 1152 Survey of Chemistry I & 1211L Principles of Chemistry I Lab CHEM 1212 Environmental Studies CHSC 1105 Introduction to Computing Principles and Technology CPSC 1105 Environmental Studies Laboratory ENVS 1105 Environmental Studies Laboratory ENVS 1105 Environmental Studies Laboratory ENVS 1105 Environmental Studies Laboratory ENVS 1205K Sustainability and the Environment GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment GEOL 1121 Introductory Geosciences I: Physical Geology Lab GEOL 1122 Introductory Geosciences I: Historical Geology GEOL 1132 Introductory Geosciences II: Historical Geology Lab			Ū
ITDS 1774 Introduction to Digital Humanities PHIL 2010 Introduction to Philosophy ITDS 1145 Comparative Arts ² Core IMPACTS Area : Communicating in Writing ENGL 1101 English Composition I ENGL 1102 English Composition II Core IMPACTS Area : Technology, Mathematics, and Sciences ¹ 7- ANTH 1145 Human Origins ASTR 1105 Descriptive Astronomy: The Solar System ASTR 1106 Descriptive Astronomy Iab ASTR 1106 Descriptive Astronomy Lab ATSC 1112 Understanding the Weather ATSC 1112 Understanding the Weather Lab BIOL 1125 Contemporary Issues in Biology Non-Lab BIOL 1125 Contemporary Issues in Biology with Lab CHEM 1151 Survey of Chemistry I & 1151L and Survey of Chemistry I & 1152 Drinciples of Chemistry I & 1154 Drinciples of Chemistry I & 1154 Drinciples of Chemistry I & 1155 Environmental Studies Laboratory CPSC 1105 Introduction to Computing Principles and Technology CPSC 1105 Environmental Studies Laboratory ENVS 1105 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment GEOG 2215 Introductory Geosciences I: Physical Geology Lab GEOL 1122 Introductory Geosciences II: Historical Geology GEOL 1132 Introductory Geosciences II: Historical Geology Lab			
PHIL 2010Introduction to Philosophy ITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition IENGL 1102English Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy LabASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 125KIntroductory BiologyBIOL 125KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II LabCHEM 1211Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1215Computer Science IENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Introduction to the Geographic Information SystemsGEOL 1120Natural Disasters: Our Hazardous EnvironmentGEOC 2215Introductory Geosciences II: Historical GeologyGEOL 1121Introductory Geosciences II: Historical Geology			
ITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition IENGL 1102English Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 177ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy. Stars and GalaxiesASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II LabCHEM 1151Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEN 1215Environmental StudiesENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105LEnvironmental StudiesGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geoscience I: Physical GeologyGEOL 1122Introdu		-	
Corre IMPACTS Area : Communicating in WritingENGL 1101English Composition IIENGL 1102English Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy. The Solar SystemASTR 1106Descriptive Astronomy. Stars and GalaxiesASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112LUnderstanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 125KIntroductory BiologyBIOL 125KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Introduction to Computing Principles and TechnologyCPSC 1105Introduction to the Geographic Information SystemsGEOL 1100Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 11322Introductory Geosciences II: Historical GeologyG			
ENGL 1101English Composition IENGL 1102English Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy. The Solar SystemASTR 1105Descriptive Astronomy. Stars and GalaxiesASTR 1105Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 125KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1215Introductor to Computing Principles and TechnologyCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1105Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Histo		•	6
ENGL 1102English Composition IICore IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy: Stars and GalaxiesASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1152Survey of Chemistry I LabCHEM 1152Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Introduction to Computing Principles and TechnologyCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geos			3
Core IMPACTS Area : Technology, Mathematics, and Sciences 17-ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy: Stars and GalaxiesASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 125KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry I LabCHEM 1152Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105Environmental StudiesENVS 1105LIntroduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL		5 1	3
ANTH 1145Human OriginsASTR 1105Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy: Stars and GalaxiesASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 125KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry I LabCHEM 1211Principles of Chemistry I& 1212Land Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEN 1215Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental StudiesENVS 1105LIntroduction to the Geographic Information SystemsGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geosciences II: Historical G		- ·	7-11
ASTR 1105Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy: Stars and GalaxiesASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 125KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105LEnvironmental StudiesENVS 1105LEnvironmental StudiesENVS 1205KSustainability and the EnvironmentGEOG 2215Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 11322Introductory Geo-sciences II: Historical GeologyGEOL 11322I			
ASTR 1106Descriptive Astronomy: Stars and GalaxiesASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112LUnderstanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II LabCHEM 1152Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105LEnvironmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 11322Introductory Geo-sciences II: Historica			3
ASTR 1305Descriptive Astronomy LabATSC 1112Understanding the WeatherATSC 1112LUnderstanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105LEnvironmental Studies LaboratoryENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 11322Introductory Geo-sciences II: Historical GeologyGEOL 11322Introductory Geo-sciences III: Historical		. , ,	3
ATSC 1112Understanding the WeatherATSC 1112LUnderstanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geoscience II: Historical GeologyGEOL 1122Introductory Geoscience II: Historical GeologyGEOL 11322Introductory Geoscience II: Historical GeologyGEOL 11322Introductory Geoscience II: Historical GeologyGEOL 11322Introductory Geoscience II: Histor			3
ATSC 1112LUnderstanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105LEnvironmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geoscience II: Historical GeologyGEOL 1122Introductory Geoscience II: Historical GeologyGEOL 11322Introductory Geoscience II: H			1
BIOL 1125Contemporary Issues in Biology Non-LabBIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I& 1211Land Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 11322Introductory Geo-sciences II: Historical Geology		· · · · · · · · · · · · · · · · · · ·	3
BIOL 1215KIntroductory BiologyBIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 11322Introductory Geo-sciences II: Historical Geology		5	1
BIOL 1225KContemporary Issues in Biology with LabCHEM 1151Survey of Chemistry I& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical Geology Lab			3
CHEM 1151Survey of Chemistry I and Survey of Chemistry I LabCHEM 1152Survey of Chemistry II and Survey of Chemistry II LabCHEM 1212Principles of Chemistry I and Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry II and Principles of Chemistry II LabCHEM 1212Principles of Chemistry II and Principles of Chemistry II LabCHEM 1212Principles of Chemistry II and Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105Environmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geo-sciences II: Historical Geology Lab			4
& 1151Land Survey of Chemistry I LabCHEM 1152Survey of Chemistry II& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I LabCHEM 1211Principles of Chemistry I LabCHEM 1212Principles of Chemistry I LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCHEM 1212Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121Introductory Geosciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology Lab			4
& 1152Land Survey of Chemistry II LabCHEM 1211Principles of Chemistry I& 1211Land Principles of Chemistry I LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical Geology Lab			4
& 1211Land Principles of Chemistry I LabCHEM 1212Principles of Chemistry II& 1212Land Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical Geology GEOL 1122GEOL 1122Introductory Geo-sciences II: Historical Geology Lab			4
& 1212Land Principles of Chemistry II LabCPSC 1105Introduction to Computing Principles and TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology Lab			4
TechnologyCPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121LIntroductory Geosciences II: Historical GeologyGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology Lab			4
CPSC 1301KComputer Science IENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical Geology GEOL 1121LIntroductory Geosciences II: Physical Geology LabGEOL 1322Introductory Geo-sciences II: Historical Geology Lab	CPSC 1105		3
ENVS 1105Environmental StudiesENVS 1105LEnvironmental Studies LaboratoryENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical Geology GEOL 1121GEOL 1122Introductory Geo-sciences II: Historical Geology Lab	CPSC 1301K	••	4
ENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121LIntroductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology			3
ENVS 1205KSustainability and the EnvironmentGEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121LIntroductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology	ENVS 1105L	Environmental Studies Laboratory	1
GEOG 2215Introduction to the Geographic Information SystemsGEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121LIntroductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology Lab			4
GEOL 1110Natural Disasters: Our Hazardous EnvironmentGEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121LIntroductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology Lab		Introduction to the Geographic Information	3
GEOL 1121Introductory Geoscience I: Physical GeologyGEOL 1121LIntroductory Geoscience I: Physical Geology LabGEOL 1122Introductory Geo-sciences II: Historical GeologyGEOL 1322Introductory Geo-sciences II: Historical Geology Lab	GEOL 1110	•	3
GEOL 1121L Introductory Geoscience I: Physical Geology Lab GEOL 1122 Introductory Geo-sciences II: Historical Geology GEOL 1322 Introductory Geo-sciences II: Historical Geology Lab Lab		Introductory Geoscience I: Physical Geology	3
GEOL 1122 Introductory Geo-sciences II: Historical Geology GEOL 1322 Introductory Geo-sciences II: Historical Geology Lab			1
GEOL 1322 Introductory Geo-sciences II: Historical Geology Lab			3
		Introductory Geo-sciences II: Historical Geology	1
	GEOL 2225		4
PHYS 1111 Introductory Physics I & PHYS 1311 and Introductory Physics I Lab	PHYS 1111	Introductory Physics I	4
& PHYS 1311and Introductory Physics I LabPHYS 1112Introductory Physics II& PHYS 1312and Introductory Physics II Lab	PHYS 1112	Introductory Physics II	4

PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211	Principles of Physics I	4
& PHYS 2311	and Principles of Physics I Lab	
PHYS 2212	Principles of Physics II	4
& PHYS 2312	and Principles of Physics II Lab	
	ea : Social Sciences	6
Select one Behav	ioral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World	Cultures course	3
ANTH 1107	Discovering Archaeology	
ANTH 1105	Cultural Anthropology	
ANTH 2105	Ancient World Civilizations	
ANTH 2136	Language and Culture	
ENGL 2136	Language and Culture	
GEOG 1101	World Regional Geography	
HIST 1111	World History to 1500	
HIST 1112	World History since 1500	
ITDS 1155	The Western Intellectual Tradition	
ITDS 1156	Understanding Non-Western Cultures	
Core IMPACTS To	tal Hours	42
Health and Wellne	255	3
KINS 1106	Lifetime Wellness	2
or PHED 1205	Concepts of Fitness	
Select one PEDS descriptions/peds	course (https://catalog.columbusstate.edu/course- s/#peds)	

¹ The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

² ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

Major Requirements

Code	Title	Credit Hours
Core Requirem	ents	
Complete the c	ore requirements for this program	45
Area F Courses	Related to Major	
Minimum grade	e of C is required	
BIOL 1107K	Principles of Biology I	4
BIOL 1108K	Principles of Biology II	4
BIOL 2206K	Organismic Biology I	4
BIOL 2207K	Organismic Biology II	4
Apply one hour	of Guided Electives	1
Apply one hour	from Area A (MATH 1113 or MATH 1131)	1
Area F Total		18
Area G Program	n Requirements	
Minimum grad	of C is required except for Foreign Language	

Minimum grade of C is required except for Foreign Language

BIOL 3216K BIOL 3217K BIOL 4795 Foreign Language Foreign Language Use a general elec tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	1002 2001 etive to substitute for any foreign language courses and in Area B ing UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	4 2 3 3 3 2 2 1 1
BIOL 3217K BIOL 4795 Foreign Language Foreign Language Use a general elec tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	Ecology Capstone Senior Seminar 1001 1002 2001 titve to substitute for any foreign language courses sed in Area B ng UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	3 3 2 1 1
BIOL 4795 Foreign Language Foreign Language Use a general elect tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	Capstone Senior Seminar 1001 1002 2001 tive to substitute for any foreign language courses sed in Area B ng UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	2 3 3 3 2 2 1 1
Foreign Language Foreign Language Foreign Language Use a general elec tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	1001 1002 2001 tive to substitute for any foreign language courses and in Area B ang UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	3 3 3 2 2 1 1
Foreign Language Foreign Language Use a general elec tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	1002 2001 etive to substitute for any foreign language courses and in Area B ing UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	3 2 1 1
Foreign Language Use a general elec tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	2001 etive to substitute for any foreign language courses sed in Area B ing UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	1
Use a general elect tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	tive to substitute for any foreign language courses and in Area B Ing UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	2
tested out of or us Select the followin allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	eed in Area B ing UTeach Columbus Courses (only two attempts of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	1
allowed for each o SPED 4115 UTCH 1201 UTCH 1202 UTCH 2105	of the following courses): Teaching Math and Science to Exceptional Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	1
UTCH 1201 UTCH 1202 UTCH 2105	Learners (Students must earn a grade of B or better in order to be certified to teach in the state of Georgia.) Step I: Inquiry Approaches to Teaching Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	1
UTCH 1202 UTCH 2105	Step II: Inquiry-Based Lesson Design Knowing and Learning in Mathematics and Science	1
UTCH 2105	Knowing and Learning in Mathematics and Science	•
	Science	3
	Oton III: Technological and Dedenorical Content	
	Step III: Technological and Pedagogical Content Knowledge	3
UTCH 3205	Classroom Interactions	3
UTCH 3215	Research Methods	3
UTCH 4205	Inquiry-Based Instruction	3
UTCH 4485	Student Teaching	9
UTCH 4795	Student Teaching Seminar	1
Area G Total		52
Area H Program El	lectives	
Minimum grade of	f C is required	
Select 3-4 credits	from Cellular and Molecular Biology Electives	3-4
BIOL 5117U	Medical Genetics and Genomics	
BIOL 5118U	Neuroscience	
BIOL 5215U	Developmental Biology	
BIOL 5216U	Histology and Histotechniques	
BIOL 5217U	Cell and Molecular Techniques	
BIOL 5218U	Introduction to Virology	
BIOL 5219U	Immunology	
BIOL 5225U	Microbial Pathogenesis	
BIOL 5317U	Genomics and Bioinformatics Lab	
BIOL 5318U	Neuroscience Lab	
BIOL 5515U	Selected Topics in Cell and Molecular Biology	
Select 3-4 credits	from Ecological and Evolutionary Electives	3-4
BIOL 5285U	Aquatic Biology	
BIOL 5286U	Community Ecology	
BIOL 5287U	Conservation Genetics	
BIOL 5288U	Plant Ecology	
BIOL 5289U	Environmental Toxicology	
BIOL 5295U	Animal Communication	
BIOL 5535U	Selected Topics in Ecological and Evolutionary Biology	
Area H Total		7-8
Area I General Elec	ctives	
Select 0-4 credits		0-4

Area I Total	0-4
Total Credit Hours	123

¹ If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C. ² At least one course must include lab and/or field experience.

Program Map

Suggested four year course schedule with MATH 0999C or MATH 0999B

Course	Title	Credit Hours
First Year Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
AREA E	World Culture	3
BIOL 1715	Professionalism and Careers in Biology (recommended Area F Guided Elective; minimum grade of C)	1
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C) $^{ m 1}$	3
MATH 0999B or MATH 0999	Support for College Algebra B ² or Support for College Algebra C IC	
	Credit Hours	14
Spring		
BIOL 1231K	minimum grade of C	4
CHEM 1211	Principles of Chemistry I	4
&1211L	and Principles of Chemistry I Lab (minimum grade of C)	
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) 3	4
	Credit Hours	15
Second Year Fall		
BIOL 1232K	minimum grade of C	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
ITDS 2125	Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) ⁴	3
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. (Recommend FL 1001 for BA Biology Sec Ed majors)	3
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2

UTCH 1201	Step I: Inquiry Approaches to Teaching (minimum grade of C)	1
	Credit Hours	17
Spring		
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
AREA G	Foreign Language 1002 (minimum grade of C)	3
STAT 1401	Elementary Statistics (minimum grade of C)	3
UTCH 1202	Step II: Inquiry-Based Lesson Design (minimum grade of C)	1
PEDS Activity		1
Third Year Fall	Credit Hours	16
BIOL 3215K	Cell Biology (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
AREA G	Foreign Language 2001 (minimum grade of C)	3
UTCH 2105	Knowing and Learning in Mathematics and Science (minimum grade of C)	3
UTCH 3215	Research Methods (minimum grade of C)	3
Spring	Credit Hours	17
AREA E	Behavioral Science	3
BIOL 3217K	Ecology (minimum grade of C)	4
AREA H	BIOL Cell/Molecular Senior Elective (minimum grade of C)	4
Area C	Humanities ⁴	3
UTCH 3205	Classroom Interactions (minimum grade of C)	3
Fourth Year Fall	Credit Hours	17
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
POLS 1101	American Government	3
UTCH 4205	Inquiry-Based Instruction (minimum grade of C)	3
	Credit Hours	15
Spring		
SPED 4115	Teaching Math and Science to Exceptional Learners (minimum grade of B; see note below)	2

There is a recent rule change for certification from the GaPSC. As of July 1, 2019, students must make a B or higher in the Exceptional Children's course. The course could be any of the following depending on your major. SPED 2256, EDCI 6228, KINS 4245, SPED 4115, PHED 6219 This rule change will not affect your graduation but you cannot become a certified educator with the state of Georgia until you receive the grade of B or higher in this course.

	Total Credit Hours	123
	Credit Hours	12
UTCH 4795	Student Teaching Seminar (minimum grade of C)	1
UTCH 4485	Student Teaching	9

¹ MATH 1111 College Algebra has 3 credits that will count in Area I.

² MATH 0999B (2 credits) or MATH 0999C (1 credit) do not count toward the degree. These courses are support courses, if needed, for MATH 1111 College Algebra.

³ MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area F.

⁴ ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities. If not taken for Area C, it can be taken for Area G.

Suggested four year course schedule with MATH 1111 College Algebra.

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
BIOL 1231K	minimum grade of C	4
BIOL 1715	Professionalism and Careers in Biology (recommended Area F Guided Elective; minimum grade of C)	1
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C) 1	3
	Credit Hours	15
Spring		
BIOL 1232K	minimum grade of C	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) 2	4
	Credit Hours	15
Second Year Fall		
BIOL 2206K	Organismic Biology I (minimum grade of C)	4

CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. (Recommend FL 1001 for BA Biology Sec Ed majors)	3
ITDS 2125	Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) 3	3
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
UTCH 1201	Step I: Inquiry Approaches to Teaching (minimum grade of C)	1
	Credit Hours	17
Spring		
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
AREA G	Foreign Language 1002 (minimum grade of C)	3
PEDS Activity		1
STAT 1401	Elementary Statistics (minimum grade of C)	3
UTCH 1202	Step II: Inquiry-Based Lesson Design (minimum grade of C)	1
	Credit Hours	16
Third Year Fall		
BIOL 3215K	Cell Biology (minimum grade of C)	4
Area C	Humanities ³	3
AREA G	Foreign Language 2001 (minimum grade of C)	3
UTCH 2105	Knowing and Learning in Mathematics and Science (minimum grade of C)	3
UTCH 3215	Research Methods (minimum grade of C)	3
	Credit Hours	16
Spring		
AREA E	Behavioral Science	3
AREA E	World Cultures	3
AREA H	BIOL Cell/Molecular Senior Elective (minimum grade of C)	4
BIOL 3217K	Ecology	4
UTCH 3205	Classroom Interactions (minimum grade of C)	3
	Credit Hours	17
Fourth Year		
Fall		
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865	3
	or U. S. History since 1865	
POLS 1101	or U. S. History since 1865 American Government	3

UTCH 4205	Inquiry-Based Instruction (minimum grade of C)	3
	Credit Hours	15
Spring		
SPED 4115	Teaching Math and Science to Exceptional Learners (minimum grade of B; see note below)	2
GaPSC. As o higher in the could be any SPED 2256, I This rule cha cannot beco	cent rule change for certification from the f July 1, 2019, students must make a B or Exceptional Children's course. The course of the following depending on your major. EDCI 6228, KINS 4245, SPED 4115, PHED 6219 nge will not affect your graduation but you me a certified educator with the state of you receive the grade of B or higher in this	
UTCH 4485	Student Teaching	9
UTCH 4795	Student Teaching Seminar (minimum grade of C)	1
	Credit Hours	12
	Total Credit Hours	123

 MATH 1111 College Algebra has 3 credits that will count in Area I.
 MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area F.

³ ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities. If not taken for Area C, it can be taken for Area G.

Suggested four year course schedule with MATH 1113 Pre-Calculus or higher.

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
BIOL 1231K	minimum grade of C	4
BIOL 1715	Professionalism and Careers in Biology (recommended Area F Guided Elective; minimum grade of C)	1
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1101	English Composition I (minimum grade of C)	3
	Credit Hours	16
Spring		
BIOL 1232K	minimum grade of C	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3

MATH 1113	Pre-Calculus (minimum grade of C) ¹	4
Second Year	Credit Hours	15
Fall		
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign	3
	language 1001, 1002, 2001, 2002.	
	(Recommend FL 1001 for BA Biology Sec Ed majors)	
ITDS 2125	Historical Perspectives on the Philosophy	3
	of Science and Mathematics (minimum	
KING 1106	grade of C) ² Lifetime Wellness	2
KINS 1106 or PHED 1205	or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
UTCH 1201	Step I: Inquiry Approaches to Teaching	1
	(minimum grade of C)	
_ ·	Credit Hours	16
Spring	Organiancia Diala null (minimum mada af O)	4
BIOL 2207K BIOL 3216K	Organismic Biology II (minimum grade of C) Genetics (minimum grade of C)	4
Area C	Humanities ²	3
AREA G	Foreign Language 1002 (minimum grade of	3
	C)	
PEDS Activity		1
UTCH 1202	Step II: Inquiry-Based Lesson Design (minimum grade of C)	1
	Credit Hours	16
Third Year		
Fall		
AREA I BIOL 3215K	Elective	3
AREA G	Cell Biology (minimum grade of C) Foreign Language 2001 (minimum grade of	4
	C)	5
UTCH 2105	Knowing and Learning in Mathematics and	3
	Science (minimum grade of C)	
UTCH 3215	Research Methods (minimum grade of C)	3
On vin v	Credit Hours	16
Spring AREA E	Behavioral Science	3
AREA E	World Culture	3
AREA H	BIOL Cell/Molecular Senior Elective	4
	(minimum grade of C)	
BIOL 3217K	Ecology	4
UTCH 3205	Classroom Interactions (minimum grade of C)	3
	Credit Hours	17
Fourth Year		
Fall		-
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
	,	
AREA H	BIOL Ecology/Evolution Senior Elective	4

HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3	
POLS 1101	American Government	3	
UTCH 4205	Inquiry-Based Instruction (minimum grade of C)	3	
	Credit Hours	15	
Spring			
SPED 4115	Teaching Math and Science to Exceptional Learners (minimum grade of B; see note below)	2	
There is a recent rule change for certification from the GaPSC. As of July 1, 2019, students must make a B or higher in the Exceptional Children's course. The course could be any of the following depending on your major. SPED 2256, EDCI 6228, KINS 4245, SPED 4115, PHED 6219 This rule change will not affect your graduation but you cannot become a certified educator with the state of Georgia until you receive the grade of B or higher in this course.			
UTCH 4485	Student Teaching	9	
UTCH 4795	Student Teaching Seminar (minimum grade of C)	1	
	Credit Hours	12	
	Total Credit Hours	123	

¹ MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area F.

² ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities. If not taken for Area C, it can be taken for Area G.

Admission Requirements

In order to declare a major in biology, a student is required to have an overall GPA of 2.5. During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Application is made to the COEHP Office of Student Advising and Field Experiences. For a list of current admission requirements, go to https:// safe.columbusstate.edu/teacher_ed.php.

Additional Program Requirements

Students must receive a grade of "C" or better for all classes in Areas D, F, G, and H. Classes with grades lower than a "C" cannot be used to satisfy prerequisite requirements for courses required in the major. To complete a degree in biology, students must obtain a minimum overall grade point average of 2.0 in all science courses applied to graduation. For teacher certification, students must obtain a minimum overall and CSU grade point average of 2.5. Prior to the student teaching semester, students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://safe.columbusstate.edu/stu_teach.php.

To be recommended for teacher certification, students must pass the GACE Biology Test I and Test II (for additional information on the GACE, go to https://gace.ets.org/).