Bachelor of Science in Biology -- University of Science and Arts of Oklahoma

IDS 1913 Rhetoric and Critical Thinking 3 IDS 2013 Foundations of Physical Science 3 IDS 1913 IDS 1913 IDS 1913 Introduction to Callege Writing 3 IDS 2011 Foundations of Life Science as IDS 1913 Introduction to Callege Writing 3 IDS 2011 Foundations of Science Lab 1 IDS 1913 American Civilization I 3 IDS 1913 American Civilization II 3 IDS 1912 Mathematics in the Modern World 3 IDS 2143 American Civilization II 3 IDS 1912 Artistic Expression - 2 hours IDS 3131 World Thought and Culture I 3 IDS 3131 World Thought and Culture I 3 IDS 3132 World Thought and Culture I 3 IDS 3133 World Thought and Culture II 3 IDS 4522 ID	Interdiscip	olinary Studies (IDS) (46-48 hours)	Hours	Trimester			Hours	Trimester	
IDS 1113	IDS 1013	Rhetoric and Critical Thinking	3		IDS 2013	Foundations of Physical Science	3		
IDS 1213 Writing about Literature 3 IDS 2133 American Civilization I 3 IDS 1213 American Civilization I 3 IDS 1214 American Civilization I 3 IDS 1214 American Civilization I 3 IDS 1215 IDS 3223 Political and Economic Systems and Theories 3 IDS 3223 World Thought and Culture I 3 IDS 3223 World Thought and Culture I 3 IDS 3223 World Thought and Culture I 3 IDS 3223 World Thought and Culture II 3 IDS 3223 World Thought and Culture II 3 IDS 40333 World Thought and Culture II 3 World Thought and Culture II 3 IDS 40333 World Thought and Culture II 3 IDS 403333 World Thought and Culture II IDS 40333 World Thought	IDS 1133	The Individual in Contemporary Society	3		IDS 2023	Foundations of Life Science	3		
IDS 1213 Writing about Literature 3	IDS 1113	Introduction to College Writing	3		IDS 2011	Foundations of Science Lab	1		
IDS 2123 Mathematics in the Modern World 3	IDS 1213	Writing about Literature	3		IDS 2133	American Civilization I	3		
Artistic Expression 2 hours	IDS 1223	Mathematics in the Modern World	3		IDS 2143	American Civilization II	3		
IDS 3313 World Thought and Culture I 3	Artistic Exp	ression 2 hours			IDS 3223	Political and Economic Systems and Theories	3		
Physical Expression - 2 hours IDS 3323 Morld Thought and Culture III 3 1 1 1 1 1 1 1 1 1					IDS 3313		3		
Physical Expression 2 hours IDS 4333 Word Thought and Culture III 3 PHED 1011 Concepts of Health and Fitness 1 IDS 4522 or Senior Semior Project II (prerequisite: IDS 4462) 2 Biology Major (71 hours) 36 hours in Biology, 16 hours in Chemistry, 8 hours in Physics, 6 brus in Mathematics, 3 hours ir Computer Science, 2 hours in Natural Science Biology Required Courses 20 hours Hours Trimester Chemistry Required Courses 12 hours Hours Trimester BIOL 1201 Principles of Biology Lab 1 CHEM 1111 General Chemistry I Lab 1 ————————————————————————————————————					IDS 3323		3		
PHED 1011 Concepts of Health and Fitness 1	Physical Ex	pression 2 hours			IDS 4333	-	3		
Biology Major (71 hours) Biology, 16 hours in Chemistry, 8 hours in Physics, 6 hours in Mathematics, 3 hours in Computer Science, 2 hours in Natural Science Biology Required Courses 20 hours Hours Trimester Chemistry Required Courses 12 hours Hours Trimester Chemistry Required Reprise Repr			1			_			
Standard						Research Project II (prerequisite: IDS 4462)	2		
Biology Revier Courses 20 hours Hours Trimester Chemistry Reviired Courses 12 hours Hours Trimester BIOL 1201 Principles of Biology Lab 1 CHEM 1111 General Chemistry I Lab 1 BIOL 1301 Survey of Organisms Lab 1 CHEM 1112 General Chemistry II Lab 1 BIOL 1303 Survey of Organisms 3 CHEM 1123 General Chemistry II Lab 1 BIOL 1303 General Genetics Lab 1 CHEM 1322 General Chemistry I I 3 BIOL 3333 General Genetics 3 CHEM 3303 Organic Chemistry I 3 — BIOL 3511 Cellular & Molecular Biology Lab 1 CHEM 3303 Organic Chemistry I 3 — BIOL 4501 Principles of Ecology Lab 1 Chemistry Elective Courses 4 hours minimum (CHEM 3321 & 3322 use once) Physics Review Courses 8 - 10 hours —	Biology Ma	ajor (71 hours)				, , , , , , , , , , , , , , , , , , , ,			
BIOL 1201			Physics, 6				ience		
BIOL 1203 Principles of Biology 3 CHEM 1113 General Chemistry I 3			Hours	Trimester			Hours	Trimester	
BIOL 1301 Survey of Organisms Lab 1	BIOL 1201		1		CHEM 1111		1		
BIOL 1303 Survey of Organisms 3	BIOL 1203	Principles of Biology	3		CHEM 1113		3		
BIOL 3331 General Genetics Lab 1 CHEM 3221 Organic Chemistry I Lab 1 BIOL 3333 General Genetics 3 CHEM 3303 Organic Chemistry I Sample Chemistry I	BIOL 1301	Survey of Organisms Lab	1		CHEM 1121	General Chemistry II Lab	1		
BIOL 3333 General Genetics 3 CHEM 3303 Organic Chemistry I 3 BIOL 3511 Cellular & Molecular Biology Lab 1 Chemistry Elective Courses 4 hours minimum (CHEM 3321 & 3323 use once) BIOL 3523 Cellular & Molecular Biology 3 Cellular & Molecular Biology 1 STORIA ST	BIOL 1303	Survey of Organisms	3		CHEM 1123	General Chemistry II	3		
BIOL 3511 Cellular & Molecular Biology Lab 1 Chemistry Elective Courses 4 hours minimum (CHEM 3321 & 3323 use once) BIOL 3523 Cellular & Molecular Biology 3 BIOL 4501 Principles of Ecology Lab 1 BIOL 4503 Principles of Ecology Principles of Ecology Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) Biology Elective Courses 16 hours Biology Elective Course 16 hours Biology Elective Course 17 hours Biology Elective Course 18 hours Biology Ele	BIOL 3331	General Genetics Lab	1		CHEM 3221	Organic Chemistry I Lab	1		
BIOL 3523 Cellular & Molecular Biology BIOL 4501 Principles of Ecology Lab 1 BIOL 4503 Principles of Ecology 3 Physics Required Courses 8 - 10 hours Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) PhySi 1301 General Physics I Lab 1 PHYS 1301 General Physics II Lab 1 PHYS 2113 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 PHYS 2123 General Physics II and PHYS 2224 for PHYS 2123 Cor substitute PHYS 2214 for PHYS 22113 and PHYS 2224 for PHYS 2123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 MATH 1513 College Algebra 3 NSCI 2710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 Or substitute MATH 1743 for MATH 1513 and MATH 1513 and MATH 1513 or substitute MATH 1743 for MATH 1513 and MATH 1513 or substitute MATH 1743 for MATH 1513 and MATH 1513 and beauting to course(s) above	BIOL 3333	General Genetics	3		CHEM 3303	Organic Chemistry I	3		
BIOL 4501 Principles of Ecology Lab 1 BIOL 4503 Principles of Ecology 3 Physics Required Courses 8 - 10 hours Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) PHYS 1301 General Physics I Lab 1 PHYS 2113 General Physics II Lab 1 PHYS 1401 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 Or substitute PHYS 2214 for PHYS 2113 and PHYS 2224 for PHYS 2123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 2710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613	BIOL 3511	Cellular & Molecular Biology Lab	1		Chemistry Elective Courses 4 hours minimum (CHEM 3321 & 3323 use once)				
BIOL 4503 Principles of Ecology 3 Physics Required Courses 8 - 10 hours Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) PHYS 1301 General Physics I Lab 1 PHYS 1313 General Physics I Lab 1 PHYS 1401 General Physics II Lab 1 PHYS 1401 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 PHYS 2123 General Physics II Sampler Statistics Sampler Science Required Course 3 hours Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Additional Required Courses MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1513 and PHYS 2003 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Cor substitute MATH 1743 for MATH 1513 and MATH	BIOL 3523	Cellular & Molecular Biology	3						
Biology Elective Courses 16 hours (BIOL or CHEM 3321 & 3323 use once) PHYS 1301 General Physics I Lab PHYS 2113 General Physics II Lab PHYS 1401 General Physics II Lab PHYS 1401 General Physics II Lab PHYS 2123 General Physics II Lab PHYS 2123 General Physics II Lab PHYS 2123 General Physics II Lab Or substitute PHYS 2214 for PHYS 2214 for PHYS 2224 for PHYS 2123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Courses 2 hours NSCI 2102 Scientific Writing 2 MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1513 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute NATH 1743 for MATH 1513 and MATH 1613	BIOL 4501	Principles of Ecology Lab	1						
PHYS 2113 General Physics I 3 PHYS 1401 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 PHYS 2123 General Physics II 3 Or substitute PHYS 2214 for PHYS 2113 and PHYS 2224 for PHYS 2123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 PHYS 2113 General Physics II A Science Required Course II A Science Required Course 3 hours Scientific Writing 2 MAdditional Required Courses NSCI 2710 STEM Communication 0 Or substitute NATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above	BIOL 4503	Principles of Ecology	3		Physics Req	uired Courses 8 - 10 hours			
PHYS 1401 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 PHYS 2121 General Physics II and PHYS 2214 for PHYS 2113 and PHYS 22123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 PHYS 1401 General Physics II Lab 1 A general Pusses II A general Pu	Biology Elective Courses 16 hours (BIOL or CHEM 332)		21 & 3323 use	e once)	PHYS 1301	General Physics I Lab	1		
PHYS 1401 General Physics II Lab 1 PHYS 2123 General Physics II Lab 1 PHYS 2121 General Physics II S 3 Or substitute PHYS 2114 for PHYS 2113 and PHYS 2224 for PHYS 2123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 NATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 PHYS 1401 General Physics II Lab 1 Additional Physics II Lab 1 NATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above					PHYS 2113	General Physics I	3		
Or substitute PHYS 2214 for PHYS 2113 and PHYS 2224 for PHYS 2123 Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above					PHYS 1401	General Physics II Lab	1		
Computer Science Required Course 3 hours CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 Computer Science Required Course 3 hours NSCI 1143 Introduction to Computing 3 NSCI 2102 Scientific Writing 2 NSCI 2102 Scientific Writing 0 NSCI 2102 Scienti					PHYS 2123	General Physics II	3		
CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 CSCI 1143 Introduction to Computing 3 NSCI 2102 Scientific Writing 2 NSCI 2102 Scientific Writing 0 Additional Required Courses NSCI 1710 Success in STEM 0 NSCI 2710 STEM Communication 0 Or substitute NATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above					Or substitute	PHYS 2214 for PHYS 2113 and PHYS 2224 for PH	YS 2123		
CSCI 1143 Introduction to Computing 3 Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 CSCI 1143 Introduction to Computing 3 NSCI 2102 Scientific Writing 2 NSCI 2102 Scientific Writing 0 Additional Required Courses NSCI 1710 Success in STEM 0 NSCI 2710 STEM Communication 0 Or substitute NATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above					Computer S	Computer Science Required Course 3 hours			
Natural Science Required Course 2 hours NSCI 2102 Scientific Writing 2 Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above							3		
Mathematics Required Courses 6 - 9 hours MATH 1513 College Algebra 3 NSCI 2102 Scientific Writing 2 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 NSCI 2102 Scientific Writing 2 Additional Required Courses NSCI 2710 Success in STEM 0 NSCI 2710 STEM Communication 0 Or substitute NSCI 3710 Next Step Preparation 0 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above					Natural Scie				
Mathematics Required Courses 6 - 9 hoursAdditional Required CoursesMATH 1513College Algebra3NSCI 1710Success in STEM0MATH 1613Trigonometry3NSCI 2710STEM Communication0MATH 2203Elementary Statistics3NSCI 3710Next Step Preparation0Or substitute MATH 1743 for MATH 1513 and MATH 1613Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above							2		
MATH 1513 College Algebra 3 NSCI 1710 Success in STEM 0 MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above	Mathematics Required Courses 6 - 9 hours								
MATH 1613 Trigonometry 3 NSCI 2710 STEM Communication 0 MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above			3				0		
MATH 2203 Elementary Statistics 3 NSCI 3710 Next Step Preparation 0 Or substitute MATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above							0		
Or substitute MATH 1743 for MATH 1513 and MATH 1613 Or substitute NSCI 1711, 2711, and 3711 for the corresponding course(s) above							0		
		•	-				course(s)	above	
							J (-)	-	

A minimum of 40 hours of upper division work is required

The biology major exit exam is required Degree requirements effective July 2022

SCIENCE & ARTS