AS IN NATURAL SCIENCE TO BS IN BIOLOGICAL SCIENCES EMPHASIS IN BIOLOGY

Campus		Arkansas State University - Newport Courses	Comparable A-State Course	Hours
ASU Newport	English Composition	ENG 1003 Composition I	ENG 1003 Composition I	3
		ENG 1013 Composition II	ENG 1013 Composition II	3
		SPCH 1203 Oral Communication	COMS 1203 Oral Communication	3
	Math	MATH 1023 College Algebra	MATH 1023 College Algebra	3
	Life Science	BIOL 2213/2211 Biological of the Cell/Lab	BIO 2103/2101 Microbiology for Nursing/Lab	4
	Physical Science	CHEM 1013/1011 General Chemistry I/Lab	CHEM 1013/1011 General Chemistry I/Lab	4
	US History/Government	POSC 2103 U.S. Government	POSC 2103 Intro to US Government	3
		HIST 2763 US History to 1876	HIST 2763 The US to 1876	Ĩ
		HIST 2773 US History since 1876	HIST 2773 The US since 1876	-
	World History	HIST 1023 World Civilization since 1660	HIST 1023 World Civ Since 1660	3
	,	HIST 1013 World Civilization to 1660	HIST 1013 World Civ to 1660	-
	Social Science	PSY 2013 Introduction to Psychology	PSY 2013 Introduction to Psychology	3
	Arts and Humanities	ENG 2003 Intro to Literature of the Western World I	ENG 2003 World Lit to 1660	3
		ENG 2013 Intro to Literature of the Western World II	ENG 2013 World Lit since 1660	
		PHIL 1103 Introduction to Philosophy	PHIL 1103 Introduction to Philosophy	1
	1	MUS 2503 Fine Arts-Music	MUS 2503 Fine Arts Music	3
		ART 2503 Fine Arts-Visual	ART 2503 Fine Arts Visual	
		THEA 2503 Fine Arts-Theatre	THEA 2503 Fine Arts Theatre	
	Major Area	MATH 2204 Calculus I	MATH 2204 Calculus I	4
	Requirements	GEOL 1003/1001 Environmental Geology/Lab	GEOL 1003/1001 Environmental Geology/Lab	4
		BIOL 1033/1031 Biology of Plants/Lab	BIO 1503/1501 Biology of Plants/Lab	4
		BIOL 1053/1051 Biology of Animals/Lab	BIO 1303/1301 Biology of Animals/Lab	4
		PHYS 2054 General Physics I	PHYS 2054 General Physics I	4
		PHYS 2064 General Physics II	PHYS 2064 General Physics II	4
		CHEM 1023/1021 General Chemistry II/Lab	CHEM 1023/1021 General Chemistry II/Lab	4
A-State	Foreign Language		French, German, or Spanish	0-6
	Major Requirements		BIO 3013/3011 Genetics and Lab	4
			BIO 3023 Principles of Ecology	3
			BIO 4021 Biological Seminar	1
			CHEM 3103/3101 Organic Chemistry I and Lab	4
			CHEM 3113/3111 Organic Chemistry II and Lab	4
	Emphasis Area: Biology		BIO 3303/3301 General Entomology and Lab	4
			BIO 3322/3332 Invertebrate Zoology and Lab	
			BIO 3033 Evolution	3
			BIO 3302/3312 Comparative Anatomy and Lab	4
			BIO 4443/4441 Comparative Animal	3-4
			Physiology and Lab	0 4
			BIO 4513 Plant Physiology	
			BIO 4104 Microbiology	4
			BIO 4133/4131 Cell Biology and Lab	3-4
			CHEM 4243 Biochemistry	0-4
			BIO 4332/4342 Animal Histology and Lab	4
			BIO 4332/4342 Animal Filstology and Lab BIO 4343/4341 Animal Embryology and Lab	1 7
	1		BIO 4545/4541 Animal Emplyology and Lab BIO 4542/4541 Mycology and Lab	3
			BIO 4542/4541 Mycology and Lab BIO 4552/4551 Medical Mycology and Lab	3
				3-4
			BIO 4704 Plant Systematics	3-4
			BIO 4522/4521 Wetland Plant Ecology and Lab	0
			STAT 3233 Applied Statistics I	3
			Electives (BIO-prefix)	5-8

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AS IN NATURAL SCIENCE TO BS IN BIOLOGICAL SCIENCES EMPHASIS IN BOTANY

Campus		Arkansas State University - Newport Courses	Comparable A-State Course	Hours
ASU Newport	English Composition	ENG 1003 Composition I	ENG 1003 Composition I	3
	English Composition	ENG 1013 Composition II	ENG 1013 Composition II	3
		SPCH 1203 Oral Communication	COMS 1203 Oral Communication	3
	Math	MATH 1023 College Algebra	MATH 1023 College Algebra	3
	Life Science	BIOL 2213/2211 Biological of the Cell/Lab	BIO 2103/2101 Microbiology for Nursing/Lab	4
	Physical Science	CHEM 1013/1011 General Chemistry I/Lab	CHEM 1013/1011 General Chemistry I/Lab	4
	US History/Government	POSC 2103 U.S. Government	POSC 2103 Intro to US Government	3
	03 history/Government	HIST 2763 US History to 1876	HIST 2763 The US to 1876	3
		HIST 2773 US History since 1876	HIST 2773 The US since 1876	_
	World History	HIST 1023 World Civilization since 1660	HIST 1023 World Civ Since 1660	3
		HIST 1023 World Civilization Since 1000 HIST 1013 World Civilization to 1660	HIST 1023 World Civ Since 1660	3
	Social Science			2
		PSY 2013 Introduction to Psychology	PSY 2013 Introduction to Psychology ENG 2003 World Lit to 1660	3
	Arts and Humanities	ENG 2003 Intro to Literature of the Western World I		3
		ENG 2013 Intro to Literature of the Western World II	ENG 2013 World Lit since 1660	
		PHIL 1103 Introduction to Philosophy	PHIL 1103 Introduction to Philosophy	
		MUS 2503 Fine Arts-Music	MUS 2503 Fine Arts Music	3
		ART 2503 Fine Arts-Visual	ART 2503 Fine Arts Visual	
		THEA 2503 Fine Arts-Theatre	THEA 2503 Fine Arts Theatre	
	Major Area	MATH 2204 Calculus I	MATH 2204 Calculus I	4
	Requirements	GEOL 1003/1001 Environmental Geology/Lab	GEOL 1003/1001 Environmental Geology/Lab	4
		BIOL 1033/1031 Biology of Plants/Lab	BIO 1503/1501 Biology of Plants/Lab	4
		BIOL 1053/1051 Biology of Animals/Lab	BIO 1303/1301 Biology of Animals/Lab	4
		PHYS 2054 General Physics I	PHYS 2054 General Physics I	4
		PHYS 2064 General Physics II	PHYS 2064 General Physics II	4
		CHEM 1023/1021 General Chemistry II/Lab	CHEM 1023/1021 General Chemistry II/Lab	4
A-State	Foreign Language		French, German, or Spanish	0-6
	Major Requirements		BIO 3013/3011 Genetics and Lab	4
			BIO 3023 Principles of Ecology	3
			BIO 4021 Biological Seminar	1
			CHEM 3103/3101 Organic Chemistry I & Lab	4
			CHEM 3113/3111 Organic Chemistry II & Lab	4
	Emphasis Area: Botany		BIO 3033 Evolution	3
	Emphable / Total Botariy		BIO 3303/3301 General Entomology and Lab	4
			BIO 3313/3311 Economic Entomology and Lab	- T
			BIO 3542/3541 Plant Pathology and Lab	4
			BIO 3542/3541 Plant Patriology and Lab	4
			BIO 4552/4551 Medical Mycology and Lab	-
				4
			BIO 4104 Microbiology	
	1		BIO 4513 Plant Physiology	3
			BIO 4522/4521 Wetland Plant Ecology and Lab	3
			BIO 4704 Plant Systematics	4
			STAT 3233 Applied Statistics I	3
	Electives*		CHEM 4243 Biochemistry	0 1 /
	Electives*		Electives	8-14

*Must include 2 Upper-Level Hours

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AS IN NATURAL SCIENCE TO BS IN BIOLOGICAL SCIENCES EMPHASIS IN PRE-PROFESSIONAL STUDIES

Campus		Arkansas State University - Newport Courses	Comparable A-State Course	Hours
ASU Newport	English Composition	ENG 1003 Composition I	ENG 1003 Composition I	3
		ENG 1013 Composition II	ENG 1013 Composition II	3
		SPCH 1203 Oral Communication	COMS 1203 Oral Communication	3
	Math	MATH 1023 College Algebra	MATH 1023 College Algebra	3
	Life Science	BIOL 2213/2211 Biological of the Cell/Lab	BIO 2103/2101 Microbiology for Nursing/Lab	4
	Physical Science	CHEM 1013/1011 General Chemistry I/Lab	CHEM 1013/1011 General Chemistry I/Lab	4
	US History/Government	POSC 2103 U.S. Government	POSC 2103 Intro to US Government	3
	00 mistory/Government	HIST 2763 US History to 1876	HIST 2763 The US to 1876	5
		HIST 2773 US History since 1876	HIST 2773 The US since 1876	_
	World History	HIST 1023 World Civilization since 1660	HIST 1023 World Civ Since 1660	3
		HIST 1013 World Civilization to 1660	HIST 1013 World Civ to 1660	Ĩ
	Social Science	PSY 2013 Introduction to Psychology	PSY 2013 Introduction to Psychology	3
	Arts and Humanities	ENG 2003 Intro to Literature of the Western	ENG 2003 World Lit to 1660	3
		World I		Ŭ
		ENG 2013 Intro to Literature of the Western World II	ENG 2013 World Lit since 1660	
		PHIL 1103 Introduction to Philosophy	PHIL 1103 Introduction to Philosophy	
		MUS 2503 Fine Arts-Music	MUS 2503 Fine Arts Music	3
		ART 2503 Fine Arts-Visual	ART 2503 Fine Arts Visual	Ĩ
		THEA 2503 Fine Arts-Theatre	THEA 2503 Fine Arts Theatre	
	Major Area	MATH 2204 Calculus I	MATH 2204 Calculus I	4
	Requirements	GEOL 1003/1001 Environmental Geology/Lab	GEOL 1003/1001 Environmental Geology/Lab	4
		BIOL 1033/1031 Biology of Plants/Lab	BIO 1503/1501 Biology of Plants/Lab	4
		BIOL 1053/1051 Biology of Animals/Lab	BIO 1303/1301 Biology of Animals/Lab	4
		PHYS 2054 General Physics I	PHYS 2054 General Physics I	4
		PHYS 2064 General Physics I	PHYS 2064 General Physics II	4
		CHEM 1023/1021 General Chemistry II/Lab	CHEM 1023/1021 General Chemistry II/Lab	4
A-State	Foreign Language		French, German, or Spanish	0-6
	Major Requirements		BIO 3013/3011 Genetics and Lab	4
	Major Requirements		BIO 3023 Principles of Ecology	3
			BIO 3023 Finiciples of Ecology BIO 4021 Biological Seminar	1
			CHEM 3103/3101 Organic Chemistry I and Lab	4
				4
			CHEM 3113/3111 Organic Chemistry II and Lab	4
	Emphasis Area: Pre-		BIO 3302/3312 Comparative Anatomy and Lab	8
	Professional Studies		AND BIO 3323/3321 Animal Physiology and	0
	Trolessional Studies		Lab	
			BIO 3223/3221 Human Structure and Function	-
			Land Lab AND BIO 3233/3231 Human	
			Structure and Function II and Lab	
			BIO 4104 Microbiology	4
	•		BIO 4133/4131 Cell Biology and Lab	3-4
			CHEM 4243 Biochemistry	0-4
				0.40
			Please Choose 3 BIO/CHEM/PHIL/STAT Courses from the List in the Bulletin	9-12

*Must include 1-5 Upper-Level Hours

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AS IN NATURAL SCIENCE TO BS IN BIOLOGICAL SCIENCES EMPHASIS IN ZOOLOGY

Campus		Arkansas State University - Newport Courses	Comparable A-State Course	Hours
ASU Newport	English Composition	ENG 1003 Composition I	ENG 1003 Composition I	3
		ENG 1013 Composition II	ENG 1013 Composition II	3
		SPCH 1203 Oral Communication	COMS 1203 Oral Communication	3
	Math	MATH 1023 College Algebra	MATH 1023 College Algebra	3
	Life Science	BIOL 2213/2211 Biological of the Cell/Lab	BIO 2103/2101 Microbiology for Nursing/Lab	4
	Physical Science	CHEM 1013/1011 General Chemistry I/Lab	CHEM 1013/1011 General Chemistry I/Lab	4
	US History/Government	POSC 2103 U.S. Government	POSC 2103 Intro to US Government	3
		HIST 2763 US History to 1876	HIST 2763 The US to 1876	Ŭ
		HIST 2773 US History since 1876	HIST 2773 The US since 1876	-
	World History	HIST 1023 World Civilization since 1660	HIST 1023 World Civ Since 1660	3
	wond mistory	HIST 1013 World Civilization to 1660	HIST 1013 World Civ to 1660	Ŭ
	Social Science	PSY 2013 Introduction to Psychology	PSY 2013 Introduction to Psychology	3
	Arts and Humanities	ENG 2003 Intro to Literature of the Western	ENG 2003 World Lit to 1660	3
	Aits and Fumanties	World I		5
		ENG 2013 Intro to Literature of the Western World II	ENG 2013 World Lit since 1660	_
		PHIL 1103 Introduction to Philosophy	PHIL 1103 Introduction to Philosophy	
		MUS 2503 Fine Arts-Music	MUS 2503 Fine Arts Music	3
		ART 2503 Fine Arts-Visual	ART 2503 Fine Arts Visual	
		THEA 2503 Fine Arts-Theatre	THEA 2503 Fine Arts Theatre	
	Major Area	MATH 2204 Calculus I	MATH 2204 Calculus I	4
	Requirements	GEOL 1003/1001 Environmental Geology/Lab	GEOL 1003/1001 Environmental Geology/Lab	4
		BIOL 1033/1031 Biology of Plants/Lab	BIO 1503/1501 Biology of Plants/Lab	4
		BIOL 1053/1051 Biology of Animals/Lab	BIO 1303/1301 Biology of Animals/Lab	4
		PHYS 2054 General Physics I	PHYS 2054 General Physics I	4
		PHYS 2064 General Physics II	PHYS 2064 General Physics II	4
		CHEM 1023/1021 General Chemistry II/Lab	CHEM 1023/1021 General Chemistry II/Lab	4
A-State	Foreign Language		French, German, or Spanish	0-6
71 01010	Major Requirements		BIO 3013/3011 Genetics and Lab	4
			BIO 3023 Principles of Ecology	3
			BIO 4021 Biological Seminar	1
			CHEM 3103/3101 Organic Chemistry I & Lab	4
				4
	Freeheeie Aree, Zeelery		CHEM 3113/3111 Organic Chemistry II & Lab	
	Emphasis Area: Zoology		BIO 3302/3312 Comparative Anatomy and Lab	4
			BIO 3303/3301 General Entomology and Lab	4
			BIO 3322/3332 Invertebrate Zoology and Lab	
			BIO 4443/4441 Comparative Animal	4
			Physiology and Lab	
			BIO 4332/4342 Animal Histology and Lab	4
			BIO 4343/4341 Animal Embryology and Lab	4
			STAT 3233 Applied Statistics I	3
			CHEM 4243 Biochemistry	
			Biology Electives (BIO-Prefix)*	5-7
			Botany Elective (Choose One Option)	
			BIO 3501/3511 Wild Flowers of Arkansas/Lab	2-4
			BIO 3542/3541 Plant Pathology and Lab	
			BIO 3553 Economic Botany	1
	1		BIO 4513 Plant Physiology	
			BIO 4522/4521 Wetland Plant Ecology and Lab	1
			BIO 4542/4541 Mycology and Lab	1
			BIO 4552/4551 Medical Mycology and Lab	-
				-
			BIO 4704 Plant Systematics	-
			BIO 4714 Dendrology	
	Electives		Electives	1-11

*Must include 2-4 Upper-Level Hours Last Modified: 5/27/2020