

**NWACC Associates of Science Liberal Arts and Sciences (stem)  
To**

**Missouri Southern State University Bachelor Science in Biomedical Science (BI12-BI16)  
60 hours**

**General Education Requirements NWACC AS LAS non-stem (35 hours)**

**English composition (6 hours) MSSU Hours**

ENGL	1013	English Composition I	ENG 0101	3
ENGL	1023	English Composition II	ENG 0102	3

**Fine Arts (3 hours) Choose one MSSU Hours**

ARHS	1003	Art Appreciation	ART 0110	3
MUSI	1003	Music Appreciation	MUS 0110	3
THTR	1003	Introduction to Theatre	TH 0110	3

**Humanities (3 hours) Choose one MSSU Hours**

ENGL	2113	Survey of British Literature to Romanticism	ENG 0271	3
ENGL	2123	Survey of British Literature from Romanticism	ENG 0272	3
ENGL	2213	Survey of World Literature to 1650	ENG 0261	3
ENGL	2223	Survey of World Literature from 1650	ENG 0262	3
ENGL	2313	Survey of American Literature to Civil War	ENG 0281	3
ENGL	2323	Survey of American Literature since the Civil War	ENG 0282	3
PHIL	2003	Introduction to Philosophy	PHIL 0201	3
PHIL	2103	Introduction to Ethics	PHIL 0212	3

**U.S. History of Government (3 hours) Choose one MSSU Hours**

HIST	2003	History of American People to 1877	HIST 0110	3
HIST	2013	History of American People 1877 to Present	HIST 0120	3
PLSC	2003	American Government	PSC 0120	3

**Mathematics (3 hours) MSSU Hours**

MATH	1203	College Algebra	MATH 0130	3
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**Social Sciences (9 hours)**

**Choose 2 courses from the list below MSSU Hours**

CMJS	2013	Introduction to Criminal Justice	CJ 0100	3
ECON	2013	Principles of Macroeconomics	ECON 0201	3
ECON	2023	Principles of Microeconomics	ECON 0202	3
PSYC	2003	General Psychology	PSY 0100	3
SOCI	2013	General Sociology	SOC 0110	3
SOCI	2033	Social Problems	SOC 0210	3

**Choose 1 course from the list below**

HIST	1003	Western Civilization to 1650	HIST 0130	3
HIST	1013	Western Civilization since 1650	HIST 0140	3
HIST	1033	World Civilizations to 1500	HIST 0130	3
HIST	1043	World Civilizations since 1500	HIST 0140	3

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<b>Lab Science (8 hours)</b>			<b>MSSU</b>	<b>Hours</b>
BIOL	1544	Principles of Biology I	BIO 0110	4
CHEM	1104	College Chemistry I	CHEM 0151	4

<b>Stem Directed Electives (8 hours)</b>			<b>MSSU</b>	<b>Hours</b>
BIOL	1014	General Biology II	BIO 0111	4
CHEM	1124	College Chemistry II	CHEM 0152	4

<b>Approved Electives (17 hours)</b>			<b>MSSU</b>	<b>Hours</b>
COMM	1303	Public Speaking	COMM 0100	3
MBIO	2014	Microbiology	BIO 0231	4
MATH	1213	Plane Trigonometry	MATH 0135	3
PHYS	2014	College Physics I	PHYS 0160	4
Elective credit to complete degree				3

The above 60 hours completes the NWACC Associate of Science Liberal Arts and Sciences non-stem.  
See page 3 for additional MSSU coursework and information

Office of the Registrar [registrar@mssu.edu](mailto:registrar@mssu.edu) as an additional contact information.

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**Required Science Courses (49 hours) Hours**

BIO	0210	Cell and Molecular Biology	4
BIO	0305	Genetics	4
BIO	0389 <i>or</i> 0390	Fundamentals of Experimental Design and Statistics <i>or</i> Research and Statistical Methods in Biology	3
BIO	0201 <i>or</i> 0381	Human Anatomy or Comparative Vertebrate Anatomy	5
BIO	0301	Human Physiology	4
BIO	0400	Biology Capstone	1
CHEM	0301	Organic Chemistry I	5
CHEM	0302	Organic Chemistry II	5
CHEM	350	Biochemistry I	3
PHYS	0162	Elementary College Physics II	4
Biology Elective <sup>A</sup>			5
Upper Division Biology Elective			6

<sup>A</sup> If student opts for BIO 201, this biology elective must be upper division. If student opts for BIO 381, this biology elective can be any level

**Required General Education Courses (5 hours)**

KINE	0101	Lifetime Wellness (GE 5D)	2
Humanities course (GE 5A)			3

**Elective Courses (6 hours)**

Upper Division Elective (any prefix)			3
Elective (any prefix, any level)			3

This completes the 60 hour requirement at MSSU.