

B.S. Biology Checklist

Biomedical Sciences Track

2018–2019 Catalog

Name: _____ ID Number: _____

General Education Program (40 hrs.)

English Composition (6 hrs.)

ENGL1101 Discourse & Comp (A)3 ___
or
ENGL1102 Discourse & Comp (B)3 ___
ENGL1105 Comp and Argumentation.3 ___

Quantitative Reasoning (3 hrs. min.)

The Quantitative Reasoning component of the GEP will be met within this degree program.

Human Behavior (3 hrs. min.)

ANTH2250 Prin. of Cultural Anthro.3 ___
ANTH2350 Biological Anthropology3 ___
ANTH2530 World Prehistory and
Archaeology.....3 ___
ECON2201 Prin. of Microeconomics.....3 ___
ECON2202 Prin. of Macroeconomics.....3 ___
POLS1010 Intro. to Political Science3 ___
PSYC1101 Intro. to Psychology3 ___
SOC11101 Intro. to Sociology3 ___
SOSC1110 Foundations of Soc. Sci.....3 ___

Fine & Performing Arts (3 hrs. min.)

ARTH1101 Intro. to Art3 ___
ENGL2275 American Film History3 ___
MUSI1201 Music Appreciation3 ___
MUSI2211 Music History 13 ___
THAR1000 Intro. to Theater.....3 ___

Oral Comm. (3 hrs. min.)

ARTH2212 Art History Survey 2.....3 ___
BUMG2900 Prof. Comm./Dev. Skills
(WI).....3 ___
COMM1103 Public Spkg/Comm.....3 ___
COMM2335 Interpersonal Comm.....3 ___
EDUC1115 Intro to Teach. Prof. (WI) ...3 ___
FREN1111 Elementary French 15 ___
FREN1112 Elementary French 23 ___
GRMN1111 Elementary German 15 ___
GRMN1112 Elementary German 23 ___
NTSC2900 Scientific Doc. and Comm. 3 ___
POLS4420 International Relations:
Model UN & Arab League.3 ___
SPAN1111 Elementary Spanish 15 ___
SPAN1112 Elementary Spanish 23 ___
THAR2212 Acting 23 ___

Engaged Citizenry (3 hrs. min.)

ARTH3454 History of American Art3 ___
ECON1103 Foundations of Pol. Econ....3 ___
EDUC2245 Understanding Cultural
Diversity (WI).....3 ___

HIST1330 Amer. History to 1865..... 3 ___
HIST1340 Amer. History since 1865... 3 ___
HUMA2226 Studies in American Cultural
History & Lit. (WI) 3 ___
PHIL3360 Social & Pol. Philosophy..... 3 ___
POLS1110 National Government 3 ___
POLS1310 Intro to Political Theory 3 ___
SOSC2210 Intro to Asian Amer.
Studies (WI)..... 3 ___

Global Perspectives (3 hrs. min.)

ARTH3456 20th Century Art..... 3 ___
ENGL3334 Comparative Queer Theory
and Lit. (WI) 3 ___
ENGL3348 Comparative Feminist
Lit. and Theory (WI) 3 ___
GEOG1125 World Geography..... 3 ___
GEOG2201 Cultural Geography 3 ___
HIST2440 World History II 3 ___
HIST2540 Intro. to the Middle East:
Hist., Peoples, and Culture 3 ___
HIST3400 History of Hinduism 3 ___
HIST3410 East Asian History..... 3 ___
HIST3414 Asia: History and Culture
(WI) 3 ___
HIST3420 Aum & Crescent: Islamic
Crusades in India..... 3 ___
HIST3500 History of Southern
Africa (WI)..... 3 ___
HIST3550 Islam: Religion, Politics,
& Soc. 3 ___
HUMA2227 Influential Works in Global
Transn. Cultures(WI) 3 ___
POLS1210 Intro. to Comparative Pols. 3 ___
POLS1410 Intro. to International
Relations 3 ___
POLS3410 International Pol.
Economy (WI) 3 ___
RELI3300 Judaism, Christianity,
& Islam..... 3 ___

Historical Perspectives (3 hrs. min.)

ARTH3366 Non-Western Arts Survey . 3 ___
ENGL2205 Intro to Women's Studies .. 3 ___
HIST2102 Medieval and Renaissance
Europe..... 3 ___
HIST2103 Revolutionary Europe
(AD1517–AD 1921) 3 ___
HIST2223 Anc. Hist. of the Nr. East ... 3 ___
HIST2430 World History I..... 3 ___
HIST3140 Europe and the Rise of the
Modern World System..... 3 ___
HIST3300 Christianity in Early
America (WI)..... 3 ___
HIST3355 Ohio River Valley Hist. WI 3 ___
HIST3430 Anc. Indian Cult./Soci. 3 ___

HIST3510 History of Islam: 7th through
the 15th Century (WI)..... 3 ___
HIST3520 Hist. of the Crusades: The
Crescent & the Cross (WI) . 3 ___
HUMA2225 Foundational Texts in Western
Cultural History (WI)..... 3 ___
PHIL2200 Intro to Philosophy 3 ___
PHIL2284 Asian Philosophy (WI)..... 3 ___
RELI2230 Hist. of Christian Thought . 3 ___

Literature (3 hrs. min.)

ENGL2200 Intro. to Lit. (WI) 3 ___
ENGL2211 Survey of Engl. Lit. 1 (WI) . 3 ___
ENGL2212 Survey of Engl. Lit. 2 (WI) . 3 ___
ENGL2247 World Lit. (WI)..... 3 ___
ENGL2251 Survey of Amer. Lit. 1 (WI) 3 ___
ENGL2252 Survey of Amer. Lit. 2 (WI) 3 ___

Ethical Insight & Reasoning (3 hrs. min.)

PHIL2320 Ethics (WI)..... 3 ___
HIST2474 Peace & Justice: Hist., Theory &
Practice of Non-Violence.... 3 ___
HIST3432 Gandhi & Mod. India (WI) 3 ___

Natural Sciences (7 hrs.)

The Natural Sciences component of the GEP will be met within this degree.

Writing Intensive (WI)

Two Courses Required
(can also include WI GEP courses)

HIST3540 Arab-Israeli Conflict 3 ___
HIST4420 Middle East in Mod. Times 3 ___
POLS3130 National Policy Issue 3 ___
PSYC2121 Experimental Psychology .. 3 ___
PSYC3110 Psych. Tests & Measures ... 3 ___
PSYC3111 Learning and Memory..... 3 ___
PSYC3145 Positive Psychology 3 ___
PSYC3170 History of Psychology 3 ___
PSYC4151 Evolutionary Psychology ... 3 ___
PSYC4160 Behav. Prob. in Children.... 3 ___
SOC12205 Current Social Problems.... 3 ___
SOC14410 Social Stratification 3 ___
SOC14444 Social Deviance 3 ___

Capstone (3 hrs. min.)

BIOL4771 Biotechnology..... 4 ___

First Year Experience (1 hr. min.)

UNIV1100 First Year Experience,
Univ. Fds..... 1 ___
HONR1101 Introduction to Honors 2 ___

Biology Curriculum

Grade of C- or better is required in all BIOL,
CHEM, and PHYS courses

Biology Core Requirements (14 hrs.)

BIOL1151	General Biology 1	4	__
BIOL1152	General Biology 2	4	__
BIOL3770	Genetics	3	__
BIOL4770	Cell Biology	3	__

Biomedical Track Requirements (19 hrs.)

BIOL3560	Principles of Anatomy	4	__
or			
BIOL3359	Comparative Vertebrate Anatomy	4	__
BIOL3561	Principles of Physiology	4	__
or			
BIOL3360	Animal Physiology	4	__
BIOL3750	Microbiology	4	__
BIOL4771	Biotechnology	4	__
	(capstone)		
CHEM4411	Biochemistry	3	__

Anatomy/Physiology Electives (7-8 hrs.) Select two courses

BIOL3640	Histology	4	__
BIOL3650	Pathophysiology	3	__
BIOL3660	Neuroanatomy	4	__
BIOL4660	Advanced Human Anatomy	4	__

Microbiology Electives (7-8 hrs.) Select two courses

BIOL4680	Parasitology	4	__
BIOL4760	Diagnostic Microbiology	4	__
BIOL4765	Virology	3	__
BIOL4780	Immunology	4	__

Required Math and Support Science (30-31 hrs.)

CHEM1141	General Chemistry 1	4	__
CHEM1142	General Chemistry 2	4	__
CHEM3305	Organic Chemistry 1	4	__
CHEM3306	Organic Chemistry 2	4	__
PHYS2201	Physics 1	4	__
or			
PHYS2211	Calculus-based Physics 1	4	__
PHYS2202	Physics 2	4	__
or			
PHYS2212	Calculus-based Physics 2	4	__
MATH1250	Trigonometry	3	__
or			
MATH2110	Calculus 1	4	__
BIOL2200	Applied Biostatistics	3	__
or			
STAT1150	Principles of Statistics	3	__
or			
STAT2500	Statistics 1	3	__

General Electives

Additional coursework in any area. A minimum of 120 total earned credit hours (GEP/FYE + Biology Curriculum + Math & Support Science + Capstone + electives) is required for graduation.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Additional Minimum Graduation Requirements

- TWO courses flagged as Writing Intensive (WI) - may be satisfied by courses already counted in the GEP
- Grade of C- or better in all BIOL, CHEM, and PHYS courses
- 120 earned semester credit hours
- 2.00 overall, cumulative GPA
- 60 semester credit hours at the 2000 level or above

Special Minimum Requirements for Transfer Students

- 30 semester credit hours completed at SSU, of which 21 must be upper division courses (3000-4000 level)
- 12 semester credit hours in the Natural Sciences completed at SSU at the 3000-4000 level, of which 8 must be in Biology
- First year experience course is waived for transfer students with more than 30 earned hours

Other Information

- Major code: **BIOL**, Conc code: **BIOM**
- Our CAS academic advisors can help you with general questions and concerns. You can reach them as follows:
 - Heather Cantrell, hcantrell@shawnee.edu
(740) 351-4555 (office)
(740) 908-1227 (text)
 - Hannah Ledford, hledford@shawnee.edu
(740) 351-3712 (office)
(740) 562-4717 (text)

- This checklist should only be used for students who declare their major during the 2018-2019 academic year. Checklists for earlier years are available on our website: <http://www.shawnee.edu/science>
Look under the "Checklists" link on the sidebar.