

# B.S. Natural Sciences Checklist

## Biology Concentration

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 Anthropology ....3 \_\_\_  
 ANTH2530 World Prehistory and  
 Archaeology.....3 \_\_\_  
 ECON2201 Prin. of Microeconomics.....3 \_\_\_  
 ECON2202 Prin. of Macroeconomics.....3 \_\_\_  
 POLS1010 Intro. to Political Science ....3 \_\_\_  
 PSYC1101 Intro. to Psychology .....3 \_\_\_  
 SOCI1101 Intro. to Sociology .....3 \_\_\_  
 SOSCI110 Foundations of Soc. Sci.....3 \_\_\_

#### Fine & Performing Arts (3 hrs. min.)

ARTH1101 Intro. to Art .....3 \_\_\_  
 ENGL2275 American Film History .....3 \_\_\_  
 MUSI1201 Music Appreciation .....3 \_\_\_  
 MUSI2211 Music History 1 .....3 \_\_\_  
 THAR1000 Intro. to Theater.....3 \_\_\_

#### Oral Comm. (3 hrs. min.)

*The Oral Communications component of the GEP will be met within this degree program.*

#### Engaged Citizenry (3 hrs. min.)

ARTH3454 History of American Art ....3 \_\_\_  
 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 \_\_\_  
 SOSCI2210 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 program.*

#### 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 \_\_\_  
 SOCI2205 Current Social Problems....3 \_\_\_  
 SOCI4410 Social Stratification .....3 \_\_\_  
 SOCI4444 Social Deviance .....3 \_\_\_

#### Capstone (3 hrs. min.)

BIOL4771 Biotechnology.....4  
*or*  
 IDST4490 Senior Seminar .....3 \_\_\_

#### First Year Experience (1 hr. min.)

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

Checklist continued  
 on reverse side

## Natural Sciences Curriculum

### Biology Requirements (11-12 hrs.)

BIOL1151	General Biology 1	4	__
BIOL1152	General Biology 2	4	__
BIOL3770	Genetics and Molecular Biology	3	
or			
BIOL3850	Ecology	4	
or			
BIOL4770	Cell Biology	3	__

### Biology Electives (16-17 hrs.)

Any biology courses numbered 2000 or higher. Sixteen hours must be at 3000 or above, with at least 4 of these at 4000 or above.

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

### Second Science Area (12 hrs.)

Twelve hours of courses in any one area of science other than the primary concentration. Students may choose GEOL, CHEM, PHYS, or MATH. Math courses must be numbered 1200 or above.

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

### Third Science Area (8 hrs.)

Eight hours of courses in any one area of science other than the primary concentration or secondary science area. Students may choose GEOL, CHEM, PHYS, or MATH. Math courses must be numbered 1200 or above.

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

### Additional Math (3 hrs.)

BIOL2200	Applied Biostatistics	3	__
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## General Electives

Additional coursework in any area. A minimum of 120 total earned credit hours (GEP/FYE + Natural Sciences Curriculum + Capstone + electives) is required for graduation.

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

## Oral Communications (3 hrs.)

NTSC2900	Scientific Documentation	3	__
or			
COMM1103	Public Speaking/Communication	3	__

## Math Proficiency Requirement

Proficiency in MATH1250 (Trigonometry) through completion, or through placement in and completion of a higher level math (i.e. MATH2110 Calculus), is required for all BS-Natural Sciences concentrations. **Eligible courses include:**

MATH1250	Trigonometry
MATH2110	Calculus 1
MATH2120	Calculus 2
MATH2130	Calculus 3
MATH2300	Linear Algebra
MATH2100	Ordinary Differential Equations
MATH3200	Geometry

## Additional Minimum Graduation Requirements

- TWO courses flagged as Writing Intensive (WI) - may be satisfied by courses already counted in the GEP
- 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: NTSC, Conc code: BIOL
- Our CAS academic advisors can help you with general questions and concerns. You can reach them as follows:
  - Heather Cantrell, [hcantrell@shawnee.edu](mailto:hcantrell@shawnee.edu)  
(740) 351-4555 (office)  
(740) 908-1227 (text)
  - Hannah Ledford, [hledford@shawnee.edu](mailto: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.