# **B.S. Natural Sciences Checklist**

## **Physics Concentration**

### 2017-2018 Catalog

Name: _		ID N	lumber:		
General E	Education Program (40 hrs.)		Amer. History since 18653 Studies in American Cultural History & Lit. (WI)3	PHIL2200 PHIL2284 RELI2230	Intro to Philosophy3 Asian Philosophy (WI)3 Hist. of Christian Thought .3
English Co	mposition (6 hrs.)	PHIL3360 POLS1110	Social &Pol. Philosophy3 National Government3	Literature	e (3 hrs. min.)
	Discourse & Comp (A)3	POLS1310	Intro to Political Theory3	ENGL2200	,
	Discourse & Comp (B)3 Comp and Argumentation.3	SOSC2210	Intro to Asian Amer. Studies (WI)3	ENGL2211 ENGL2212 ENGL2247	Survey of Engl. Lit. 1 (WI)3
Quantitati	ve Reasoning (3 hrs. min.)		rspectives (3 hrs. min.)	ENGL2251	Survey of Amer. Lit. 1 (WI)3
	tive Reasoning component of the GEP ithin this degree program.	ARTH3456 ENGL3334	20th Century Art3 Comparative Queer Theory and Lit. (WI)3	ENGL2252  Ethical Ins	Survey of Amer. Lit. 2 (WI)3sight & Reasoning (3 hrs. min.)
Human Be	havior (3 hrs. min.)	ENGL3348	Comparative Feminist Lit. and Theory (WI)3	PHIL2320	Ethics (WI)3
ANTH2250 ANTH2350	Prin. of Cultural Anthro3 Biological Anthropology3 World Prehistory and	GEOG1125 GEOG2201 HIST2440	World Geography3 Cultural Geography3 World History II3	HIST2474 HIST3432	Peace & Justice: Hist., Theory & Practice of Non-Violence3 Gandhi & Mod. India (WI).3
ECON2201	Archaeology3 Prin. of Microeconomics3	HIST2540	Intro. to the Middle East: Hist., Peoples, and Culture.3		ciences (7 hrs.)
ECON2202 POLS1010	Prin. of Macroeconomics3 Intro. to Political Science3	HIST3500	History of Southern Africa (WI)3		Sciences component of the GEP will be its degree program.
PSYC1101 SOCI1101 SOSC1110	Intro. to Psychology3 Intro. to Sociology3 Foundations of Soc. Sci3	HIST3550 HUMA2227	Islam: Religion, Politics, & Soc3 Influential Works in Global	Two Cours	ntensive (WI) es Required
		DOI 01210	Transn. Cultures(WI)3	•	clude WI GEP courses)
	Intro. to Art	POLS1210 POLS1410 POLS3410	Intro. to Comparative Pols. 3Intro. to International Relations3International Pol.	BIOL3860 GEOL2204 GEOL4310 HIST3540	Field Methods4
MUSI2211	Music History 13 Intro. to Theater3	RELI3300	Economy ( <i>WI</i> )3  Judaism, Christianity,  & Islam3	HIST4420 POLS3130 PSYC2121	Middle East in Mod. Times 3 National Policy Issue3 Experimental Psychology3
Oral Com	m. (3 hrs. min.)	SOSC3250	Asia: The Land and its	PSYC3110	Psych. Tests & Measures3
	Art History Survey 23 Prof. Comm./Dev. Skills (WI)3	Historical	Perspectives (3 hrs. min.)	PSYC3111 PSYC3145 PSYC3170	Learning and Memory3 Positive Psychology3 History of Psychology3
COMM2335 EDUC1115	Public Spkg/Comm3	ARTH3366 ENGL2205 HIST2102 HIST2103	Non-Western Arts Survey3 Intro to Women's Studies3 Medieval and Renaissance Europe3 Revolutionary Europe	PSYC4151 PSYC4160 SOCI2205 SOCI4410 SOCI4444	Evolutionary Psychology3
GRMN1111	Elementary German 15 Elementary German 23	HIST2223	(AD1517-AD 1921)3 Anc. Hist. of the Nr. East3	С	apstone (3 hrs. min.)
NTSC2900 POLS4420	Scientific Doc. and Comm3 International Relations:	HIST2430 HIST3140	World History I3 Europe and the Rise of the Modern World System3	IDST4490	Senior Seminar3
SPAN1111 SPAN1112	Model UN & Arab League .3 Elementary Spanish 15 Elementary Spanish 23	HIST3300	Christianity in Early America (WI)3	First Ye	ear Experience (1 hr. min.)
THAR2212	Acting 23	HIST3355 HIST3410 HIST3430	Ohio River Valley Hist.WI .3 East Asian History	UNIV1100	First Year Experience, Univ. Fds1
	History of American Art3	HIST3510	History of Islam: 7th through the 15th Century (WI)3	HONR1101	Introduction to Honors2
ECON1103 EDUC2245	Foundations of Pol. Econ3 Understanding Cultural Diversity (WI)3	HIST3520 HUMA2225	Hist. of the Crusades: The Crescent & the Cross (WI) 3 Foundational Texts in Western		Checklist continued on reverse side
HIST1330	Amer. History to 18653		Cultural History (WI)3		

#### **Natural Sciences Curriculum**

Physics Requirements (26 hrs.)						
PHYS2211	Calculus-Based Physics 14					
PHYS2212	Calculus-Based Physics 24					
PHYS2250	Modern Physics4					
PHYS3000	Intermediate Lab2					
PHYS3010	Thermodynamics3					
PHYS3020	Mechanics3					
PHYS4000	Electricity & Magnetism3					
PHYS4010	Quantum Mechanics3					
Second Science Area (12 hrs.)						
Twelve hours of courses in any one area of science other than the						
primary concentration. Students may choose BIOL, CHEM, GEOL,						
or MATH.	Math courses must be numbered 1200 or above.					
	ence 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 BIOL, CHEM, GEOL, or MATH. Math courses must be						
numbered 1200 or above.						
	I Science/Math (4 hrs.)					
Any course	in BIOL, CHEM, GEOL, NTSC, PHYS, or MATH not					
used above.	. Math courses must be numbered 1200 or above.					

#### **General Electives**

credit hours	oursework in any area. A minimu (GEP/FYE + Natural Sciences Cur required for graduation.	

#### 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.

#### **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 Physics
- > First year experience course is waived for transfer students with more than 30 earned hours

#### **Other Information**

- Major code: NTSC, Conc code: PHYS
- Our CAS academic advisors can help you with general questions and concerns. You can reach them as follows:
  - Heather Cantrell, <u>hcantrell@shawnee.edu</u>
     (740) 351-4555 (office)
     (740) 908-1227 (text)
  - Hannah Ledford, <u>hledford@shawnee.edu</u>
     (740) 351-3712 (office)
     (740) 562-4717 (text)
- This checklist should only be used for students who declare their major during the 2017–2018 academic year. Checklists for earlier years are available on our website: <a href="http://www.shawnee.edu/science">http://www.shawnee.edu/science</a>

Look under the "Checklists" link on the sidebar.