

2017 SPRING: ACCELERATED B.S. GEOSCIENCE, GEOLOGY CONC. TO M.S. GEOSCIENCE PROGRAM
B.S. GEOSCIENCE (120 CREDITS) ADVISING SHEET ONLY

Name:		Major Declared Date:		Planned Grad Date:		
	CREDITS	COURSE	SEMESTER	GRADE	REP/W*	
GENERAL EDUCATION REQUIREMENTS (36 CREDITS)						
WRT120	3					
WRT200, or 204, or 205, or 206, or 208, or 220	3					
SPK 208 OR 230	3					
DIVERSE COMMUNITIES "J" COURSE	3					
INTERDISCIPLINARY "I" COURSE (ESS/ENV/SCB 102)		102				
BEHAVIOR & SOCIAL SCI. (6 CREDITS FROM TWO OF THE FOLLOWING AREAS: ANT SOC PSY ECO GEO PSC)	3					
	3					
HUMANITIES (6 CREDITS FROM TWO OF THE FOLLOWING AREAS: LIT HIS PHI)	3					
	3					
ARTS: (ART CINEMATOGRAPHY MUSIC PHOTOGRAPHY THEATRE)	3					
	3					
STUDENT ELECTIVES (9 CREDITS)	3					
	3					
	3					
MATH AND COMPUTER SKILLS (9 OR 10 CREDITS)						
MAT 143 Brief Calculus or 161—Calculus I	3 or 4					
MAT 121 – Statistics	3					
ESS 321 (Geometrics), or GEO 324 or GEO325 (GIS), or CSC 115 or higher (Computer Science)	3					
SCIENCE COGNATES (8 CREDITS)						
Recommend BIO 110 – General Biology	3					
CHE 103 – General Chemistry I	3					
CRL 103 – Experimental General Chemistry I	1					
Recommend CHE 104 – General Chemistry II						
Recommend CRL 104 – Experimental General Chemistry II						
PHY 130 – General Physics I or PHY 170 – Physics I	4					
Recommend PHY 140 – General Physics II or 180 – Physics II						
CORE REQUIREMENTS (30 CREDITS) – AND WHEN OFFERED						
ESS 101 – Introduction to Geology	3					
ESS 204 – Historical Geology – both semesters	3					
ESS 201 – Field Geology – both semesters	3					
ESS 301 – Environmental Geochemistry – spring	3					
ESS 302 – Mineralogy – fall (spring as needed)	3					
ESS 331 – Paleontology (W) – spring (fall as needed)	3					
ESS 343 – Geomorphology – spring (fall as needed)	3					
ESS 405 – Igneous and Metamorphic Petrology – spring	3					
ESS 420 – Structural Geology – spring	3					
ESS 450 – Sedimentology and Stratigraphy – fall	3					
ADDITIONAL REQUIRED COURSE (8 CREDITS)						
ESS/SCB/ENV 102 – Humans & the Environment (I) – both	3					
ESS 439 – Hydrogeology – spring	3					
ESS 347 – Seminar – fall	1					
ESS 447 – Seminar – fall	1					
GRADUATE ELECTIVE COURSES – CONSULT LIST ON BACK FOR AVAILABLE COURSES (MAXIMUM 9 CREDITS); OTHER ELECTIVES TO 120 CREDITS TOTAL						
ESS Graduate Substitution Course:	3					
ESS Graduate Substitution Course:	3					
ESS Graduate Substitution Course:	3					
Other 200-400 electives to achieve 120-credits	19 or 20					

**3 classes above must be "W" emphasis.

"I" course cannot be applied as a distributive requirement (Science, Humanities, or Behavioral & Social Science)

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SUGGESTED sequence**

	Fall	Spring
Yr 1 30 cr	ESS 101 (3) MAT 115 or 121 (3) WRT 120 (3) Gen Ed Soc/Behav (3) Gen Ed Elective (3)	MAT 121 or 115 (3) WRT 200 204 205 206 208 or 220 (3) ESS 204 or 201 Gen Ed "W" course (3) Gen Ed Soc/Behav (3) Gen Ed Elective (3)
Yr 2 32- 34 cr	ESS 201 or 204 Gen Ed "W" course (3) ESS Elective: Recommend GEO 324 (3) CHE CRL 103 (4) & ESS 480 (1) Gen Ed Hum (3) Gen Ed "J" course (3)	ESS 102 – "I" course (3) ESS 301 (3) MAT 108 or 161 (3 or 4) ESS 331 Gen Ed "W" course (3) Elective: Recommend CHE & CRL 104 (3-4)
Yr3 32- 33 cr	ESS 302 (3) ESS 347 (1 credit) ESS 321, GEO 324/325, or CSC 115 (3) PHY 130 or 170 (4) & ESS 480 (1) Gen Ed Hum (3) Elective (3)	ESS 343 (3) ESS 439 (3) ESS 405 (3) ESS 420 (3) Gen Ed SPK (3)
Yr4 28 cr	ESS 450 (3) ESS 447 (1 credit) Gen Ed Art (3) Gen Ed Elective (3) ESS Graduate Substitution (3)	ESS Graduate Substitution (3) Elective: Recommend PHY 140 (3-4) ESS Graduate Substitution (3) Elective (3) Elective (3)

	Summer	Fall	Spring
YEAR 5 28 cr.	ESS 523 (3) ESS 596 (3)	ESS 547 (1) ESS 523 (3) ESS 549 or ESS 570 (3) ESS 5xx Elective (3)	ESS 536 or ESS 530 (3) ESS 5xx Elective (3) ESS 5xx Elective (3) ESS 602 (3)

Approved General Education Courses

Behavioral and Social Sciences (6 cr from 2 areas):

Anthropology: ANT 101, ANT 102, ANT 103
Economics: ECO 111, ECO 112, ECO 200
Geography: GEO 101, GEO 103, GEO 200, GEO 214
Government: PSC 100, PSC 101, PSC 213
Psychology: PSY 100
Sociology: SOC 200, SOC 240

Humanities (6 cr from 2 areas):

History: HIS 100, HIS 101, HIS 102, HIS 150, HIS 151, HIS 152, HIS 444
Literature: LIT 100, LIT 165, LIT 219, LIT 220, CLS 165, CLS 260, CLS 261
Philosophy: PHI 100, PHI 101, PHI 150, PHI 180, PHI 206, PHI 207, PHI 220, PHI 280, PHI 282, PHI 350

Arts (3 cr)

Theatre: THA 101, THA 103, THA 212
Film: FLM 200, EGE 405, ESP 305, ESP 309, GER 405, SPA 313
Dance: DAN 132, DAN 133, DAN 134, DAN 135, DAN 136, DAN 137, DAN 138, DAN 150, DAN 210
Music: MDA 240, MHL 121, MHL 125, MHL 210, MHL 312, MHL 325, MTC 110
Art: ARH 101, ARH 103, ARH 104, ARH 210, ARH 211, ART 106, ART 111, ART 113, ART 228, ART 231

Approved Graduate Substitution Courses

ESS 507 (Geology of the Solar System)
ESS 523 (Field Geology of SE Pennsylvania)
ESS 527 (Electron Microscopy)
ESS 532 (Advanced Oceanography)
ESS 535 (Remote Sensing)
ESS 542 (Geophysics)
ESS 544 (Geomorphology II)
ESS 548 (International Field Studies)
ESS 549 (Advanced Hydrogeology)
ESS 555 (Intermediate Astronomy)
ESS 562 (History of Astronomy)
ESS 571 (Advanced Meteorology)
ESS 580 (Special Problems)
ESS 590 (Soils)
ESS 591 (Independent Studies)
ESS 594 (Geology of NW National Parks)
ESS 595 (Geology of SW National Parks)
ESS 596 (Earth Systems Science)