## **University of Wyoming, College of Arts & Sciences** Requirements Checklist – Geology B.S. For students matriculating fall 2003 and after.

Stude	ent:	Advisor:	Initial Date of Program:
Univ	ersity Studies Program:		
(P)	Physical Activity & Health	1 course 1 c	credit
(I)	Intellectual Community	1 course 1-3	3 credits
(V)	U.S. & Wyoming Constitutions	1 course, 3 c	credits
(WA)	Writing 1	1 course, 3 c	credits
(QA)	Quantitative Reasoning 1	1 course, 3 c	credits
	Quantitative Reasoning 2	1 course, 3 c	credits
(O) ́	Oral Communication	1 course, 3 c	credits
Scienc	es – SB Biological; SE Earth; SP Pl	hysical: S Integrated Science	
	se, 4 credits		credits
Cultura	al Context – 9 hours total C. CH. CS	, CA; at least 3 courses from 3 of 4	different categories
Arts (C		1 course. 3 c	credits
	nities (CH)	1 course, 3 c	predits
	science (CS)	1 course, 3 c	credits
	ated Cultural Context (C)		credits
These (WB) (WC) (L) (D) (G) <b>A&amp;S</b> Foreig (with a	Writing 2 Writing 3 Information Literacy U.S. Diversity Global Awareness <b>Core:</b>	oductory level of a language, 2 cour semester) are required.	courses in the major.
A&S C		or second major. Approved course	ments in University Studies program, the s are listed on the A&S Website.
depart the ma Americ Wome SE, SF 1 cour 1 cour	ment/program in which the student's ajor. This cross-listing rule does not can Studies, Earth System Science, n's Studies). These courses canno	apply to majors in the A&S interdisc Environment and Natural Resource t be used to also fulfill the USP com s may also be used in a minor or a s	oss-listed with courses in the department of ciplinary programs (American Indian studies, s, Microbiology, International Studies, and ponents of P, I, QA, QB, O, V, WA, S, SB,

#### **University Upper Division Requirement:**

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48 credits (3XXX-level or above): 30 of which must be earned from the University of Wyoming.

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The following courses are for the major requirements and are offered in no particular order. Please consult with your advisor for scheduling sequence. (\*\*Courses offered in alternating years (S) – Spring Only (F) – Fall Only)

COURSE □ GEOL 1005 Earth History □ or GEOL 1100 Physical Geology	USP S SE	CREDITS 4.0 4.0	PREREQUISITES none none	
<ul> <li>or GEOL 1200 Historical Geology</li> <li>or GEOL 1500 Water, Dirt, &amp; Earth's Environment</li> </ul>	SE SE	4.0 4.0	none	
□ GEOL 2000 Geochem Cycles & the Earth System (F)	SE	4.0	1000-level GEOL course with a lab & CHEM 1020 concur	
□ GEOL 2005 Introduction to Geophysics (S)		4.0	1000-level GEOL course with lab, MATH 1450 or higher	
□ GEOL 2010 Mineralogy (S)		3.0	GEOL 1005, 1100, or 1200; CHEM 1020/ concur	
□ GEOL 2020 Introduction to Petrology (F)		2.0	GEOL 2010	
□ GEOL 2100 Stratigraphy & Sedimentation (F)		4.0	GEOL 1100	
GEOL 4610 Structural Geology & Tectonics (F)		4.0	GEOL 2010	
<ul> <li>GEOL 4717 Field Course in Geology (summer)</li> <li>GEOL 4820 Capstone (S)</li> </ul>	WC	2-6 (max6) 3.0	GEOL 2100, 4610	
LI GEOL 4620 Capsione (3)	VVC	3.0	junior standing & 26 hrs in the dept	
CHEM 1020 General Chemistry I	SP	4.0	Math ACT 23 or concur MATH 1400 or 1405 or 1450	
□ or CHEM 1050 Advanced General Chemistry I (F)	SP	4.0	1 yr H.S. Chem & Math ACT 27 or MATH 2200 concur	
CHEM 1030 General Chemistry II	SP	4.0	CHEM 1020	
□ or CHEM 1060 Adv General Chemistry II (S)	SP	4.0	CHEM 1050 or 1020 with permission	
☐ MATH 2200 Calculus I	QB	4.0	C in MATH 1405 or 1450 or Level 5 on Math Placement or Math ACT 27 or SAT 600	
□ MATH 2205 Calculus II		4.0	C in MATH 2200 or adv. placement MATH 2200	
□ PHYS 1110 General Physics I (F)	SP	4.0	MATH 1450, 1405 or equiv	
□ or PHYS 1210 Engineering Physics I	SP	4.0	C in MATH 2200 & MATH 2205 concur	
15 credit hours in Geology courses at 2000-level and above: □ Course:				

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### **University of Wyoming, College of Arts & Sciences** Requirements Checklist – Geology & Earth Sciences B.A. For students matriculating fall 2003 and after.

Stude	ent:	Advisor:	Initial Date of Program:
Univ	ersity Studies Program:		
(P)	Physical Activity & Health	1 course 1 cred	it
(l)	Intellectual Community	1 course, 1-3 cre	edits
(V)	U.S. & Wyoming Constitutions	1 course 3 cred	its
(WA)	Writing 1	1 course 3 cred	its
(QA)	Quantitative Reasoning 1	1 course 3 cred	its
(QB)	Quantitative Reasoning 2	1 course .3 cred	its
(0)	Oral Communication	1 course, 3 cred	its
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	es – SB Biological; SE Earth; SP Pl		
1 cour	se, 4 credits	1 course, 4 cred	its
Cultura	al Context – 9 hours total C. CH. CS	, CA; at least 3 courses from 3 of 4 diffe	erent categories
Arts (C			its
	nities (CH)	1 course, 3 cred	its
	science (CS)	1 course, 3 cred	its
	ated Cultural Context (C)	1 course, 3 cred	its
(WB) (WC) (L) (D) (G) Foreig (with a	Writing 2 Writing 3 Information Literacy U.S. Diversity Global Awareness <b>Core:</b>	roductory level of a language, 2 courses semester) are required.	
A&S C 1 cour	core, or courses in the major, minor, se, 3 credits		re listed on the A&S Website.
depart the ma Americ Wome SE, SF 1 cour 1 cour	ment/program in which the student's ajor. This cross-listing rule does not can Studies, Earth System Science, n's Studies). These courses cannot	apply to majors in the A&S interdisciplin Environment and Natural Resources, M t be used to also fulfill the USP compon s may also be used in a minor or a secc	-listed with courses in the department of nary programs (American Indian studies, Aicrobiology, International Studies, and ents of P, I, QA, QB, O, V, WA, S, SB,

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<u>University Upper Division Requirement:</u> 48 credits (3XXX-level or above): 30 of which must be earned from the University of Wyoming.

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<ul> <li>The following courses are for the major requirements and are or advisor for scheduling sequence. (**Courses offered in alter</li> <li><u>COURSE</u></li> <li>4-8 hours of GEOL 1000-level intro lab course(s):</li> </ul>			Please consult with your nly (F) – Fall Only) <u>PREREQUISITES</u>
	SE		
Course:	SE		
□ GEOL 2000 Geochem Cycles & the Earth System (F)	SE	4.0	1000-level GEOL course with a lab & CHEM 1020 concur
GEOL 2100 Stratigraphy and Sedimentation (F)		4.0	GEOL 1100
GEOL 2080 General Field Geology (F)	SE	3.0	GEOL1100,1200or1005
□ or GEOL 3080 General Field Geology (F)	SE, WC	3.0	GEOL1100,1200or1005
GEOL 4820 Capstone (S)	WC	3.0	jr standing&26 hrs in dpt
□ LIFE 1010 General Biology	SB	4.0	C in MATH 0921 or Level 2 on Math Placement or Math ACT
			21 or SAT 600
CHEM 1020 General Chemistry I	SP	4.0	Math ACT 23 or concur MATH1400,1405or1450
□ PHYS 1110 General Physics I (F)	SP	4.0	MATH 1450, 1405 or equiv
□ MATH 1405 Trigonometry	QA	3.0	C in MATH 1400 or Level 4 Math Placement or Math ACT 25 or SAT 600
□ or MATH 1450 Algebra and Trigonometry	QA	5.0	C in MATH 0925 or Level 3 Math Placement or Math ACT 23 or SAT 600

12 credit hours in electives with advisor consultation, at least 6 hrs of which must be taken outside of the department:

□ Course:	 
Course:	 
Course:	
Course:	 
Six courses from the list below:	
Course:	 
Course:	 
Course:	
Course:	 

ATSC 2000 Intro to Meteorology – SE (Pre: none)

or GEOG 3450 Weather and Climate (Pre: GEOG 1000, 1010 or 1020) – Offered Spring Semester

GEOG 3010 Geomorphology of Earth's Dynamic Landscapes (Pre: GEOG 1010 or GEOL 1500 & QA & QB)

- GEOL 2005 Intro to Geophysics (Pre: 1000-level GEOL course with lab, MATH 1450 or higher) Offered Spring Sem
- GEOL 2050 Principles of Paleontology (Pre: GEOL 1100 or LIFE 1000 or 1010) Offered Spring Semester
- GEOL 2070 Introduction to Oceanography (Pre: GEOL 1100; CHEM 1020)
- GEOL 3400 Geologic Hazards: A Historical and Scientific Review SE (Pre: junior standing)
- GEOL 3500 Global Change: A Geological Perspective (Pre: junior standing & an intro class in physical sciences)
- GEOL 3600 Earth and Mineral Resources SE, G (Pre: QA and L)
- GEOL 3650 Energy: A Geological Perspective SE, G (Pre: QA and L)
- GEOL 4444 Geohydrology (Pre: MATH 2205) Offered Spring Semester
- GEOL 4490 Geochemistry (Pre: GEOL 2010, CHEM 1020, MATH 2200, 2205) Offered Spring Semester
- GEOL 4610 Structural Geology and Tectonics (Pre: GEOL 2010) Offered Fall Semester

# GEOL 4835 Applied/Exploration Geophysics (Pre: GEOL 1100, one yr of physics & MATH 2210) – Offered Spring Sem POLS 4051 Environmental Politics – WC (Pre: POLS 1000)

- SOIL 4120 Genesis, Morphology and Classification of Soils (Pre: SOIL 2010) Offered Fall Semester
- ECON 2400 Economics of the Environment (Pre: ECON 1010, 1020 or consent)
- ECON 4400 Environmental Economics (Pre: ECON 3020 & junior standing; or consent of instructor)
- or ECON 4410 Natural Resource Economics (Pre: ECON 3020 & junior standing; or consent of instructor)