EARTH SCIENCES EDUCATION (ESSE) BACHELOR of ARTS
With Concurrent Major in Earth System Science
Wyoming Teacher Education Program

Total credit requirement: 127 minimum
48 credit hours must be upper division

Effective Spring 2008
Updated: March 2008

Name: _____________________________________________

W#: ____________________________ Matric. Date: ____________________________

Evaluated by: ____________________________ Date: ____________________________

WY Comm. College Transfers – WYO Core completed? Y__ N__

UNIVERSITY STUDIES PROGRAM REQUIREMENTS

CORE COMPONENTS:
Intellectual Community (1 course, 1-4 credits)
___ (I) ____________________________
Not required if transferring 16 or more credits to UW from any institution.

Writing 1 (1 course, minimum 3 credits)
___ (WA) ENGL 1010

Quantitative Reasoning (2 courses, 6-8 credits)
___ (QA) Most students will satisfy this USP requirement with ACT or math placement score
___ (QB) STAT 2050 AND
___ (QB) MATH 2200

Natural Sciences (4-8 credits) (S, SB, SP, or SE)
___ (SE) ESS/GEOL 2000
___ (SP) LIFE 1010

Cultural Context (3 courses, 9 credits)
(3 hours from each area; can substitute C for ONE area)
___ Humanities (CH): ____________________________
___ Social Science (CS): EDST 2450
___ Arts (CA): ____________________________

Oral Communication (1 course, 3 credits)
___ (O) EDST 3000

US & Wyoming Constitution (1 course, 3 credits)
___ (V) POLS 1000, ECON 1200, HIST 1211, 1221, or 1251

Physical Activity & Health (1 course w/ 2 parts, 1 credit)
___ (P) PEAC 1001 ____________________________

EMBEDDABLE COMPONENTS
May be part of another course (ordinarily a 3 credit course) or courses dedicated solely to this component.

Information Literacy (1 course)
___ (L) ITEC 2360

Writing 2 & 3 (2 courses)
___ (WB) EDST 3000
___ (WC) EDSE 4275

Global Awareness (1 course)
___ (G) GEOL 3600 OR GEOL 3650

Diversity in the United States (1 course)
___ (D): EDST 2480

PROFESSIONAL EDUCATION REQUIREMENTS:
Professional Ed courses must be completed with a grade of C or better.

___ EDST 2450 (3) Human Lifespan Development (CS)
___ ITEC 2360 (3) Teaching with Technology (L)
___ 2.50 UW Total Institution GPA
___ Sophomore standing (30+ credits)

The above criteria must be met prior to enrollment in PHASE I:

___ EDST 2480[2000] (4) Diversity & the Politics of Schooling (D)
___ EDEX 2484 (3) Intro to Special Education
___ C or better in QA
___ C or better in WA
___ Current Wyoming Substitute Teaching Permit
___ 2.75 GPA (cumulative)
___ Junior standing (60+ credits)
___ Application is due one semester prior to enrollment.

The above criteria must be met prior to enrollment in PHASE II:

___ EDST 3000 (6) Teacher as Practitioner (O & WB)
___ 2.75 UW Total Institution GPA
___ 2.50 GPA (content)
___ EDSE 3275 (3) Methods I: Secondary Science Ed.
(Offered fall semester only.)
___ Application is due one year prior to enrollment.

The above criteria must be met prior to enrollment in PHASE III:

Methods II & Residency

Phase IIIa: Methods II
___ EDSE 4275 (3) Methods II: Secondary Science Ed. (WC)
(Offered fall semester only.)
___ EDST 3550 [3500] (2) Educational Assessment
* Can be taken upon successful completion of Phase I and QA requirement.

Phase IIIb: Residency
___ EDSE 4500 (15) Residency in Teaching

- Effective Fall 2006. Concurrent Majors required for all incoming freshmen and transfer students in this degree program.
- Minimum 2.75 cumulative GPA and minimum 2.5 content GPA required.
EARTH SYSTEM SCIENCE MAJOR CONTENT:
71 HOURS (minimum)

Minimum 2.50 GPA required in major content. All major content courses must be completed with a grade of C or better.

REQUIRED EARTH SYSTEM COURSES
(46 Hours minimum)

____ LIFE 1010 (4) General Biology
____ CHEM 1020 (4) General Chemistry I (SP) OR CHEM 1050 (4) General Chemistry & Qualitative Analysis I
____ CHEM 1030 (4) General Chemistry II (SP) OR CHEM 1060 (4) General Chemistry & Qualitative Analysis II
____ PHYS 1310 (4) College Physics I (SP)
____ ESS/GEOL 2000 (4) Foundations of Geology (SE)
____ LIFE 2022 (4) Animal Biology OR LIFE 2023 (4) Plant and Fungal Biology
____ ESS/GEOG 3480 (3) Environmental Change
____ GEOL 3500 (4) Global Change: A Geological Perspective OR GEOL 4777 (3) Geochemistry of Natural Waters OR BOT 4780 (4) Biogeochemistry OR SOIL 4535 (3) Soil Biogeochemistry
____ ESS/ATSC/BOT/GEOL 4001 (4) Modeling the Earth System
____ GEOG 4200 (4) Geographic Information Systems I
____ ESS 4950 (3) Capstone
____ ESS 4970 (2) Internship

AND

ADDITIONAL REQUIRED COURSES (16 Hours)
____ STAT 2050 (4) Fundamentals of Statistics (QB)
____ MATH 2200 (4) Calculus I (QB)
____ MATH 2205 (4) Calculus II
____ GEOL 3600 (4) Earth & Mineral Resources (G) OR GEOL 3650 (4) Energy: A Geological Perspective (G)

AND

ELECTIVE COURSES (9 Hours minimum required beyond other coursework completed for USP or Content)

____ ANTH 1200 (3) Intro to Cultural Anthropology (CS &G)
____ GEOL 2070 (4) Intro to Oceanography OR ATSC 4320 (3) Ocean Environment
____ ANTH 2200 (3) Understanding Cultures (CS & G)
____ GEOL 3080 (4) General Field Geology
____ GEOL 3110 (4) Invertebrate Paleontology
____ ATSC 4010 (3) Atmospheric Processes
____ ATSC 4410 (3) Micrometeorology
____ LIFE 3400 (3) General Ecology
____ BOT 4700 (4) Plant Ecology
____ ZOO 3660 (3) Principles of Animal Behavior
____ ANTH 4310 (3) Environmental Anthropology
____ ZOO 4350 (3) Ornithology
____ ZOO 4370 (3) Mammalogy
____ ZOO 4440 (3) Limnology
____ SOIL 2010 (4) Intro to Soil Science
____ SOIL 3130 (3) Environmental Quality
____ SOIL 4120 (3) Genesis, Morphology & Classification of Soils

Students are cautioned to consider prerequisite requirements when selecting from the Elective Courses list.