Checklist for BS in Environmental Science, Environmental Systems & Modeling

Before Fall 2012  (Semester courses are expected to be offered are approximate and not final until the course schedule for that semester is made available.)

GEOL 4341 Dynamic Meteorology, OR approved advanced elective

PeopleSoft ID:

Name:  ____________________________  Date:  ________________ - 20__

Major Catalog: 20__ - 20__

ENVS 4301 Data Analysis in Environmental Science
ENVS 4302 Legislative & Regulatory Aspects of Environmental Science
ENVS 4351 Environmental Mathematics and Differential Equations
ENVS 4352 Environmental Fluid Dynamics

GROUP 1 ELECTIVES (Choose at least 12 hours from):
MATH 3331 Differential Equations
COSC 3361 Numerical Methods I
GEOL 3331 Environmental Geology
GEOL 3342 Introduction to Air Pollution
GEOL 3377 Oceanography
GEOL 3378 Principles of Atmospheric Science

GROUP 2 ELECTIVES (At least 12 hours from Options 1, 2, 3a or 3b):

OPTION 1: Environmental Chemistry (Choose 12 Hours):
CHEM 3119 Analytical Chemistry Lab
CHEM 3221 Organic Chemistry I Lab
CHEM 3222 Organic Chemistry II Lab
CHEM 3331 Organic Chemistry I
CHEM 3332 Organic Chemistry II
CHEM 3369 Analytical Chemistry Lab
CHEM 4229 Instrumental Methods of Analysis Lab
CHEM 4373 Survey of Physical Chemistry, OR approved 4000 level elective*

OPTION 2: Environmental Modeling
MATH 3338 Probability
MATH 3339 Statistics
MATH 3363 Introduction to Partial Differential Equations
MATH 4364 Numerical Analysis, OR approved 4000 level elective*

OPTION 3a: Environmental Geosciences (Choose 12 Hours):
GEOL 3370 Mineralogy
GEOL 3371 Environmental Hydrogeology
GEOL 3340 Geologic Field Methods
GEOL 3383 Remote Sensing
GEOL 4331 Introduction to Geographic Information Systems
GEOL 4366 Groundwater Modeling, OR approved advanced elective*

OPTION 3b: Atmospheric Sciences (Choose 12 Hours):
GEOL 3380 Physical Meteorology
GEOL 3381 Micrometeorology
GEOL 3382 Atmospheric Chemistry
GEOL 3383 Remote Sensing
GEOL 4333 Mesoscale Meteorology
GEOL 4341 Dynamic Meteorology, OR approved advanced elective*

FREE ELECTIVES
(Additional hours to complete a total of 120 hours, including at least 36 advanced hours)

ENVIRONMENTAL SCIENCE ELECTIVES
(Choose at least 9 hours from): OR approved advanced elective

MATH 3338 Probability
MATH 3339 Statistics
MATH 3363 Introduction to Partial Differential Equations
MATH 4364 Numerical Analysis, OR approved 4000 level elective*

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COSC 3361 Numerical Methods I
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RULES YOU NEED TO KNOW:
1. MINIMUM of a 2.00 GPA in cumulative, major, and minor GPA to graduate
2. C- RULE: MAXIMUM of 6 hours of grades below C- allowed in UH major courses
3. LAST 30 hours must be exclusively completed at UH
4. MAXIMUM of 6 W's allowed during entire undergraduate career
5. MINIMUM of 36 advanced hours and 120 total hours to graduate
6. MAXIMUM of 66 lower level transfer hours may be applied towards UH degree
7. At 60 hours, must request a Major Degree Plan "REQUIRED TO GRADUATE"

Advisor: ____________________________

* A general petition must be submitted for approval to use towards your degree for all course substitutions. See ENVS advisor for more details.