

OFFICE OF ACADEMIC AFFAIRS PROGRAM APPROVAL FORM



Undergraduate Graduate New Program Program Change

College: CoS Department: Atmospheric Science

Program Title: Minor in Earth Ecosystems

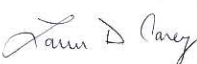
Program Type: Major Minor Concentration Certificate

Total Credit Hours: 21 Effective Date: 08/01/2017

Is the new program or change in existing program part of an accreditation requirement? *If so, please explain.* Yes No

Does this course involve academic units external to the originating college? *If so, deans of all colleges involved must sign this form.* Yes No

Attach a detailed description of proposed program to include the following: background information, academic justification, student need and demand, listing of courses with credit hour requirements or deletions, facility requirements, and any other pertinent information.

Department Chair:  Grad. Council: _____
Digitally signed by Lawrence Carey
DN: cn=Lawrence Carey, o=UAH,
ou=ATS,
email=chair@nsstc.uah.edu, c=US
Date: 2016.10.14 09:20:21 -0500'

College Dean:  Graduate Dean: _____

College Curriculum Committee: 

Undergrad Curriculum Cmte: _____ Provost: _____

Acknowledgements from other units:

Department Chair: _____ College Dean: _____

Earth System Science Minors – Justification of Proposed Program

Attach a detailed description of proposed program to include the following: background information, academic justification, student need and demand, listing of courses with credit hour requirements or deletions, facility requirements, and any other pertinent information.

Earth System Science Minor tracks were removed from the UAH Catalog in 2013/2014. Since that time, students from other departments continue to request minors or cognates in the following areas: Atmospheric Science, Geographic Information Systems / Remote Sensing, Natural Disasters Impacts & Policy, and Earth Ecosystems. In order to service these requests, minors in these following Earth System Science areas of study are proposed. Each one of these minor tracks in ESS has been tailored to take advantage of the diverse undergraduate course offerings in the Earth System Science program. These minor tracks will utilize existing course offerings and facilities. These minor tracks complement, and have been already requested by, students studying Physics, Biological Sciences, Engineering, Computer Science, Political Science, Sociology, and World Languages and Cultures.

Minor in Earth Ecosystems

Earth Ecosystems		
CRN	Course Name	CR
Required Courses		
ESS 103	Environmental Earth Science	4
ESS 111	Weather, Climate, & Global Change	4
ESS/BYS 302	People, Plants, Environment	3
ESS/BYS 312	Principles of Ecology	4
Elective Courses		
(Choose at least 6 credit hours from Elective List)		
ESS 200-400	Choose from below	6
		21
Elective Course List		
ESS 210	Collapse of Civilizations	3
ESS 303	Physical & Class. Climate	3
ESS 307	Environmental Archaeology	3
ESS 321	Pollution Problems	3
ESS 370	Remote Sensing	3
ESS 407	Env Thrts, Pub Pol., Dec. Making	3
ESS 408	Python for GIS	3
ESS 313	Geographic Info Systems	3
ESS 414	Geospatial Applications	3
ESS 415	Advanced GIS	3