

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 Atmospheric Science

Atmospheric Science		
CRN	Course Name	CR
Required Courses		
ESS 103	Environmental Earth Science Apps	4
ESS 111	Weather, Climate, & Global Change	4
ESS 212	Severe Weather Analysis	4
ESS 301	Earth & Atmos Physics	3
Elective Courses (Choose at least 6 credit hours from Elective List)		
ESS 300-400	Choose from below	6
		21
Elective Course List		
ESS 303	Physical & Class. Climate	3
ESS 321	Pollution Problems	3
ESS 351	Dynamic Meteorology	3
ESS 409	Computers Apps in Met	3
ESS 410	Operational Wx Fcst	3
ESS 420	Atmos Chemistry & Poll.	3
ESS 441	Atmos Thermodynamics	3
ESS 451	Atmos Fluid Dynamics	3
ESS 452	Synoptic Meteorology	3
ESS 454	Mesoscale Forecasting	3
ESS 461	Atmos Radiation	3
ESS 471	Radar Meteorology	3