

ENVIRONMENTAL SUSTAINABILITY

This certificate will be an extension of our environmental studies degree program. This certificate will provide students with the knowledge, skills, and training required to conduct industrial hygiene and hazardous materials testing and assessment. Students will conduct sampling and surveys in the field. Students will typically work under the direction of a senior scientist.

Fall One		Credit Hours
ENVI 210	Indoor Environmental Quality	3
ENVI 217	Occupational Safety and Health	3
Any CHEM Lecture with Associated Lab		4
Credit Hours		10
Spring One		Credit Hours
ENVI 205	Hazardous Materials Management	3
ENVI 142 & 142L	Industrial Hygiene Lecture and Industrial Hygiene Lab	4
Credit Hours		7
Total Credit Hours		17

Students who successfully complete this program will be able to:

1. Analyze the fundamental environmental, social, and economic issues underlying sustainability.
2. Apply the principles of greenhouse gas analysis and reduction our daily lives.
3. Critically evaluate the various global and national standards we use to assign life cycle values to products and services. Student will understand green washing, the mislabeling of products and services as green by computing their LCA values.
4. Critically evaluate the need to develop new technologies required to replace fossil fuels and other forms of renewable energy.