

# PROGRAM REVIEW – CURRICULUM PACKET

2018-2019

## ENVIRONMENTAL STUDIES

This report includes course student learning outcome (cSLO) assessment summaries from 2015-16 to 2017-18.

Table 1. Course offerings per academic year from 2015-16 to 2018-19

Table 2. Course assessment status between 2015-16 and 2017-18

Table 3. cSLOs that were not assessed between 2015-16 and 2017-18

Table 4. cSLOs assessed and corresponding Data Evaluation

Table 5. cSLOs assessed and corresponding Data Planning

### COURSE OFFERINGS

Table 1. Course offerings per academic year from 2015-16 to 2018-19

Course Name	2015-2016	2016-2017	2017-2018	2018-2019
ENVS G100	x	x	x	x
ENVS G133	x	x		
ENVS G160	x	x	x	
ENVS G162	x	x	x	
ENVS G170	x	x	x	x
ENVS G190	x	x	x	

### COURSE ASSESSMENT STATUS

Fully Assessed



Partially Assessed



No Assessment



Table 2. Course Assessment Status between 2015-16 and 2017-18

\*No enrollment data between 2013-14 and 2018-19

Course Name	Total cSLOs	No. cSLOs Assessed	Assessment Status	Last Term Offered
ENVS G100	9	0 out of 9	No Assessment	↓ Spring 2019
ENVS G133	4	0 out of 4	No Assessment	↓ Fall 2015
ENVS G140	6	0 out of 6	No Assessment	↓ *
ENVS G160	6	0 out of 6	No Assessment	↓ Spring 2016
ENVS G162	6	0 out of 6	No Assessment	↓ Fall 2015
ENVS G170	6	0 out of 6	No Assessment	↓ Fall 2016
ENVS G190	9	0 out of 9	No Assessment	↓ Spring 2016

Table 3. cSLOs that were not assessed between 2015-16 and 2017-18

Course Name	cSLO Name	cSLO to Assessed
ENVS G100	cSLO 1	Recognize the relationships between economic development and management of natural resources.
ENVS G100	cSLO 2	Identify environmental regulatory sources and references.
ENVS G100	cSLO 3	Interpret and determine the scope of environmental legislation.
ENVS G100	cSLO 4	Analyze generic industrial processes and waste streams.
ENVS G100	cSLO 5	Identify types of hazardous materials.
ENVS G100	cSLO 6	Appraise the health effects of toxic substances.
ENVS G100	cSLO 7	Distinguish between industrial toxicology, industrial hygiene, occupational health hazards and risk management.
ENVS G100	cSLO 8	Appraise pollution prevention and waste management techniques.
ENVS G100	cSLO 9	Differentiate environmental career opportunities and paths.

Course Name	cSLO Name	cSLO to Assessed
ENVS G133	cSLO 1	Identify the type, size, condition, and rate of energy consumption for each major energy consuming device in buildings.
ENVS G133	cSLO 2	Recommend appropriate energy conservation, operation, and maintenance procedures.
ENVS G133	cSLO 3	Estimate labor and materials costs for energy retrofits.
ENVS G133	cSLO 4	Project savings expected from energy retrofits.
ENVS G140	cSLO 1	Define Environmental Education and Nature Interpretation, and describe the history of Environmental Education and Interpretation over the past 30 years.
ENVS G140	cSLO 2	Explain the differences between the goals and purposes of Environmental Education and Environmental Advocacy.
ENVS G140	cSLO 3	Utilize the Internet and library databases and resources to conduct an investigation of Environmental Education and Interpretation careers, curricula, and resources.
ENVS G140	cSLO 4	Identify content that can be integrated into Environmental Education and Interpretation Programs.
ENVS G140	cSLO 5	Compare and contrast tools that have been used to assess/evaluate Environmental Education and Interpretation Programs.
ENVS G140	cSLO 6	Identify and apply teaching resources available from agencies, organizations, and industry.
ENVS G160	cSLO 1	Explain the three basic types of solar/heat transmission.
ENVS G160	cSLO 2	Understand the fundamental of radiation collection, measurement, and data processing analysis.
ENVS G160	cSLO 3	Describe the various components of solar thermal systems and their characteristics.
ENVS G160	cSLO 4	Compare various systems, their applications and performances, and their predicted energy savings and economics.
ENVS G160	cSLO 5	Understand the safety, environmental, and social impact of solar thermal energy.
ENVS G160	cSLO 6	Explore career opportunities and paths within the associated industries.
ENVS G162	cSLO 1	Explain the principles of solar cell designs and manufacturing technologies.
ENVS G162	cSLO 2	Describe the functions and performance characteristics of each of the components of a photovoltaic power system.
ENVS G162	cSLO 3	Compare various PV systems, their applications and performances, and their predicted energy savings and economics
ENVS G162	cSLO 4	Demonstrate knowledge of the process for conducting a site assessment and determining available solar resources for a PV installation.
ENVS G162	cSLO 5	Describe the safety, environmental , and social impacts of solar photovoltaic energy use.
ENVS G162	cSLO 6	Explore career opportunities and paths within the associated industries.
ENVS G170	cSLO 1	Explain the main characteristics and compare the availability of energy forms.
ENVS G170	cSLO 2	Describe the essential purpose and function of energy and the need for conservation.
ENVS G170	cSLO 3	Differentiate between renewable and non-renewable energy sources.
ENVS G170	cSLO 4	Compare and contrast current renewable energy conversion technologies.
ENVS G170	cSLO 5	Demonstrate an awareness of the social, political, economic and environmental issues of renewable energy generation and utilization.
ENVS G170	cSLO 6	Explore career opportunities and paths within the associated industries.
ENVS G190	cSLO 1	Compare and evaluate the various career paths available in the environmental studies field.
ENVS G190	cSLO 2	Develop/select an appropriate plan of activities and objectives to be accomplished during the student's practicum.
ENVS G190	cSLO 3	Apply the theoretical knowledge gained in the classroom in a realistic work setting in the environmental studies field.
ENVS G190	cSLO 4	Evaluate major communication processes within an environmental agency/firm.
ENVS G190	cSLO 5	Assess major environmental industry news/trends and current industry issues
ENVS G190	cSLO 6	Analyze the importance of community involvement in environmental issues.
ENVS G190	cSLO 7	Recognize the relationship between all disciplines involved in the environmental field.
ENVS G190	cSLO 8	Attain a satisfactory evaluation for the students practicum.
ENVS G190	cSLO 9	Interpret conclusions of the practicum.

## DATA EVALUATION

Table 4. cSLOs assessed and corresponding Data Evaluation.

*\*No cSLO assessment completed between 2015-16 and 2017-18*

**DATA PLANNING**

Table 5. cSLOs assessed and corresponding Data Planning.

*\*No cSLO assessment completed between 2015-16 and 2017-18*

