

## Master Assessment Plan: ZZZ Sample Undergrad

**Outcomes Analysis Years:** 2014-2015  
**Annual Report Year/Semester:** 2015/Spring

**Objective:** To develop in students the ability to utilize quantitative knowledge and skills and modern tools and technologies for environmental management.

Outcome	Data	Data Source	Collection Date
Students will be able to appropriately collect, analyze and report environmental samples for physical, chemical and biological contaminants.	Senior course project. Measured with rubric and analyzed at the dimension level to identify strengths and weaknesses within the outcome. Second Measure: Case study measured with rubric and analyzed at the dimension level.	ETC 420/ETC 380	Annually
Students will develop management plans with multiple objectives and constraints.	Course project. Measured with rubric and analyzed at the dimension level to identify strengths and weaknesses within the outcome.	ETC 460	Annually

**Outcomes Analysis Years:** 2015-2016  
**Annual Report Year/Semester:** 2016/Spring

**Objective:** To develop in students a strong understanding of the chemical, physical and biological components of Earth's environment and how human and natural disturbances influence that environment.

Outcome	Data	Data Source	Collection Date
Students will demonstrate an understanding of environmental chemistry, pollutants and pollution transport in both indoor and outdoor environments.	Exam questions mapped to outcomes, analyzed at the question level, or groups of questions to identify strengths and weaknesses in knowledge of the content.	ETC 440	Annually
Students will demonstrate an understanding of soil properties and processes, basics of hydrology, surface water, atmospheric properties and processes.	Lab exercise with rubric demonstrating Hydrology knowledge, analyzed at the rubric dimension level, to identify strengths and weaknesses in the outcome.	ET 401	Annually
Students will demonstrate an understanding of conserving, preserving and sustaining environments, including pollution prevention and control.	Exam questions mapped to outcomes, analyzed at the question level, or groups of questions to identify strengths and weaknesses in knowledge of the content.	ET 460, ET 203, ET 302	Annually

**Outcomes Analysis Years:** 2016-2017  
**Annual Report Year/Semester:** 2017/Spring

**Objective:** To develop in students the ability to assess, analyze, plan and implement actions needed to manage the environment.

Outcome	Data	Data Source	Collection Date
Students will demonstrate competency in critical thinking, systematic problem solving and decision making as individuals and in a team environment.	ET 302 – Indoor air quality investigation; ET 401 – Group project with rubric, analyzed at the rubric dimension level to identify strengths and weaknesses within the outcome.	ET 302, ETC 401	Annually
Students will identify the requirements in performing environmental site assessments and environmental impact statements.	Exam questions mapped to outcomes, analyzed at the question level, or groups of questions to identify strengths and weaknesses in knowledge of the content.	NR 484	Annually

**Outcomes Analysis Years:** 2017-2018  
**Annual Report Year/Semester:** 2018/Spring

**Objective:** To develop in students an understanding of the social, political, ecological and economic framework in which environmental assessment and management decisions are made and in which environmental technologists must function.

Outcome	Data	Data Source	Collection Date
Students will demonstrate an understanding of environmental policy and the processes by which it is developed.	Student projects. Measured with rubric and analyzed at the dimension level to identify strengths and weaknesses within the outcome.	ETC 380	Annually
Students will demonstrate an understanding of how federal, state and local laws and regulations govern the practice of environmental issues as well as health and safety.	Research paper. Measured with rubric and analyzed at the dimension level to identify strengths and weaknesses within the outcome.	ETC 420 and 440	Annually
Students will be able to locate, interpret, and compare environmental and safety data for individual communities, states and nations.	Research paper. Measured with rubric and analyzed at the dimension level to identify strengths and weaknesses within the outcome.	ETC 410	Annually
Students will demonstrate an understanding of complex environmental problems and how collaborative decision making of stakeholders can be used to address such problems.	Integration exercises and collaborative, adaptive management project. Measured with rubric and analyzed at the dimension level to identify strengths and weaknesses within the outcome.	ETC 455	Annually