Course SLOs, Transfer Program SLOs, and GEOs For Dummies

Fred Hochstaedter September, 2010

For John Anderson, and others who have been asking for a long time

General Education Areas General Education Outcomes (GEOs)	Courses Course-level SLOs	Transfer Programs Program-level SLOs
Natural Science	GEOL 2 Course-level SLOs: 1. Use observations of rock types and landscape morphology to interpret basic geologic history and processes	Geology 18 units from: CHEM 1A, CHEM 1B, GEOL 2, MATH 20A, MATH 20B, PHYS 3A, PHYS 3B (no GEOL prereqs) Program-level SLO:
GEOL 2, OCEN 2, ASTR 10, CHEM 1A, PHYS 2A, BIOL 10, etc	2. Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them
GEO: Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	OCEN 2 Course-level SLOs: 1. Recognize major seafloor features based on their shape and interpret their origin using plate tectonic theory 2. Analyze how the Earth's oceans are part of the Earth's systems from geological, chemical, biological, and physical	OCEN 2, CHEM 1A, CHEM 1B, MATH 20A, MATH 20B PHYS 3A, PHYS 3B (no OCEN prereqs)
The goal is to	erspectives Use the scientific method to investigate henomena in the natural world and use	Program-level SLO: Use the scientific method to investigate phenomena in the natural world and use
explain this chart	oncepts, experiments, and/or t	nd what we need
Social Science ANTH 2, ECON 1, HIST 2, POLS 2, WOMN 10, SOCI 1, etc	and recognize logical fallacies d reasoning 2. Demonstrate their knowledg	do to implement the plan
GEO: Critically examine and comprehend human nature and behavior, social traditions, and institutions	unique place of humanity in the world. 3. Critically examine and comprehend human nature and behavior, social traditions, and institutions	Program-level SLO: Critically examine and comprehend human nature and behavior, social traditions, and institutions

General Education Areas

General Education Outcomes (GEOs)

Natural Science

GEOL 2, OCEN 2, ASTR 10, CHEM 1A, PHYS 2A, BIOL 10, etc....

GEO:

Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them

Social Science

ANTH 2, ECON 1, HIST 2, POLS 2, WOMN 10, SOCI 1, etc...

GEO:

Critically examine and comprehend human nature and behavior, social traditions, and institutions Let's start with the 1st column: <u>General Education Areas</u>

1. There are several GE Areas.

Two examples are shown here:

Natural Science and Social Science.

2. GE Areas are comprised of several courses, each of which satisfies GE Area requirements.

3. Each GE Area has a GEO: General Education Outcome.

4. GEOs describe what students should be able to do when they complete any of the courses in a GE Area.

5. The GEOs are evaluated as part of the course-level SLO evaluation for those courses that satisfy GE requirements.

General Education Areas General Education Outcomes (GEOs)	Courses Course-level SLOs	
Natural Science	GEOL 2 Course-level SLOs: 1. Use observations of rock types and landscape morphology to interpret basic geologic history and processes	
GEOL 2, OCEN 2, ASTR 10, CHEM 1A, PHYS 2A, BIOL 10, etc	Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	
GEO:	OCEN 2 Course-level SLOs:	
Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	1. Recognize major seafloor features based on their shape and interpret their origin using plate tectonic theory 2. Analyze how the Earth's oceans are part of the Earth's systems from geological, chemical, biological, and physical perspectives 3. Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	
Social Science ANTH 2, ECON 1, HIST 2, POLS 2, WOMN 10, SOCI 1, etc	ANTH 2 Course-level SLOs: 1. Differentiate between fact and fiction and recognize logical fallacies and faulty reasoning 2. Demonstrate their knowledge of the unique place of humanity in the biological	
GEO: Critically examine and comprehend	world. 3. Critically examine and comprehend	
human nature and behavior, social traditions, and institutions	human nature and behavior, social traditions, and institutions	

We'll continue with the 2nd column: Courses

1. Each course has 1-3 SLOs.

2. Some courses satisfy GE requirements. These courses have a GEO as one of their SLOs. Three examples are shown here; GEOL 2, OCEN 2, and ANTH 2.

3. A single GEO serves as one of the SLOs in all courses that satisfy a GE Area.

General Education Areas General Education Outcomes (GEOs)	Now we'll look at the 3 rd column: <u>Transfer Programs</u>	Transfer Programs Program-level SLOs
Natural Science		Geology 18 units from: CHEM 1A, CHEM 1B, GEOL 2, MATH 20A, MATH 20B, PHYS 3A, PHYS 3B (no GEOL prereqs) Program-level SLO:
GEOL 2, OCEN 2, ASTR 10, CHEM 1A, PHYS 2A, BIOL 10, etc	1. Each transfer program has, as an integral part, at least one course that also satisfies a GE requirement.	Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them
GEO: Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	2. The GEO for these courses also serve as the Program SLO for the associated transfer programs.	Oceanography 18 units from: OCEN 2, CHEM 1A, CHEM 1B, MATH 20A, MATH 20B PHYS 3A, PHYS 3B (no OCEN prereqs) Program-level SLO: Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them
Social Science		Anthropology ANTH 2, ANTH 4, ANTH 6,
ANTH 2, SCON 1, HIST 2, POLS 2, WOMN 10, SOCI 1, etc GEO: Critically examine and comprehend	3. Three examples are shown in the third column: GEOL 2 Geology Program OCEN 2 – Oceanography Program	LING 15, MATH 16 3 units from: ANTH 11, ANTH 20, ANTH 21, ANTH 30 (no ANTH prereqs) Program-level SLO: Critically examine and comprehend
human nature and behavior, social traditions, and institutions	ANTH 2 – Anthropology Program	human nature and behavior, social traditions, and institutions

General Education Areas	Courses	Programs
General Education Outcomes (GEOs)	Course-level SLOs	Program-level SLOs
Natural Science	GEOL 2 Course-level SLOs: 1. Use observations of rock types and landscape morphology to interpret basic geologic history and processes	Geology 18 units from: CHEM 1A, CHEM 1B, GEOL 2, MATH 20A, MATH 20B, PHYS 3A, PHYS 3B (no GEOL prereqs) Program-level SLO:
GEOL 2, OCEN 2, ASTR 10, CHEM 1A, PHYS 2A, BIOL 10, etc	2. Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them
GEO:	OCEN 2 Course-level SLOs:	Oceanography
Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	1. Recognize major seafloor features based on their shape and interpret their origin using plate tectonic theory 2. Analyze how the Earth's oceans are part of the Earth's systems from geological, chemical, biological, and physical perspectives 3. Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them	18 units from: CHEM 1A, CHEM 1B, OCEN 2 MATH 20A, MATH 20B PHYS 3A, PHYS 3B (no OCEN prereqs) Program-level SLO: Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them
Social Science	ANTH 2 Course-level SLOs: 1. Differentiate between fact and fiction and recognize logical fallacies and faulty	Anthropology ANTH 2, ANTH 4, ANTH 6, LING 15, MATH 16
ANTH 2, ECON 1, HIST 2, POLS 2, WOMN 10, SOCI 1, etc	reasoning 2. Demonstrate their knowledge of the unique place of humanity in the biological	3 units from: ANTH 11, ANTH 20, ANTH 21, ANTH 30 (no ANTH preregs)
GEO:	world.	Program-level SLO:
Critically examine and comprehend human nature and behavior, social traditions, and institutions	3. Critically examine and comprehend human nature and behavior, social traditions, and institutions	Critically examine and comprehend human nature and behavior, social traditions, and institutions

Benefits of the MPC SLO-GEO Plan

- 1. A single outcome serves three purposes: course-level SLO, program-level SLO, and GEO
- 2. An emphasis on dialog: professionals talking to professionals about teaching and student learning
- 3. All three outcomes are evaluated at the same time: during the normal evaluation of course-level SLOs within the program review framework
- 4. No SLO Assessment Committee to review assessments of SLOs; it is all done at the department or "group" level
- 5. No assessments required beyond what is normally done to assign student grades
- 6. It's Simple; it only seems complex at the beginning

Implementation of the SLO-GEO Plan September, 2010

Faculty in charge of transfer programs and GE courses are asked for

two things at this time:

 Acknowledgement* that they support the most closely associated GEO to be used as the program-level SLO for their program, and entered into CurricUNET

2. Acknowledgement* that they support the most closely associated GEO to be used as one of the course-level SLOs for their GE courses, and entered into CurricUNET

Transfer Programs Program-level SLOs

Geology

18 units from: CHEM 1A, CHEM 1B, GEOL 2, MATH 20A, MATH 20B, PHYS 3A, PHYS 3B (no GEOL prereqs)

Program-level SLO:

Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them

Courses Course-level SLOs

GEOL 2 Course-level SLOs:

Use observations of rock types and landscape morphology to interpret basic geologic history and processes

 Use the scientific method to investigate phenomena in the natural world and use concepts, experiments, and/or theory to explain them

*Please send acknowledgment as an e-mail to Fred Hochstaedter and Michael Gilmartin