







### CLO/HIPs alignment

Course	CLOs			HIPs										
	Critical Thinking	Comm.	Prof.	FYS	CIE	LC	WIC	CAP	UR	DGL	eP	SL	IN	CCP
NRGY 120	X													
NRGY 130	X													
ELCT 120	X													
ETEC 101	X													
ELCT 250	X													
ETEC 231			X		x									x
ETEC 220					x									x
ETEC 245	X													
MCH 130	X													
ETEC 103	X													
ELCT 130	X													
NRGY 110	X													
ETEC 234	Moratorium													
ETEC 236	Moratorium													
ETEC 230	X				x									x
NRGY 101	X				x									x
NRGY 210	X													
NRGY 230	X													

CLOs: Critical Thinking

Communication

Professionalism

HIPS: First-Year Seminars/Experiences (FYS) Common Intellectual Experiences (CIE) Learning Community (LC) Writing-Intensive Courses (WIC) Collaborative Assignments/Projects (CAP) Undergraduate Research (UR) Diversity/Global Learning (DGL) ePortfolios (eP) Service Learning (SL) Internships (IN) Capstone Courses/Projects (CCP)

## 2. Assessment Plan and Schedule

Please provide a multi-year schedule indicating when program outcome assessment will be reported and what classes will be used to assess program outcomes. The assessment cycle should be 5 years or less.

\*Programs with external accreditation should follow the assessment timeline and requirements of their accrediting body. Please share your assessment schedule (if applicable) below. Otherwise, please give a detailed response to item 3.

<b>Courses</b>	<b>Years Reported</b>	<b>Program Outcome(s) Assessed</b>
<b>NRGY 120</b>	Fall 2021	Identify and practice safe workplace habits.
<b>NRGY 130</b>	Fall 2020	Demonstrate familiarity with basic mechanical tools and the ability to repair a basic mechanical system.
<b>ELCT 120</b>	Fall 2022	Demonstrate familiarity with basic electrical tools and the ability to troubleshoot a basic electrical system.
<b>ETEC 101</b>	Fall 2020	Identify and practice safe workplace habits.
<b>ELCT 250</b>	Fall 2021	Demonstrate a basic understanding of programmable logic controllers.
<b>ETEC 231</b>	Fall 2021	Demonstrate a basic understanding of AC and DC variable speed motor drives.
<b>ETEC 220</b>	Fall 2019	Demonstrate an understanding of both conventional and renewable energy sources.
<b>ETEC 245</b>	Fall 2020	Demonstrate a basic understanding of digital electronics.
<b>M105</b>	Math	Demonstrate an understanding of college-level algebra.
<b>MCH 130</b>	Spring 2019	Identify and use specific tooling used in machining process.
<b>ETEC 103</b>	Spring 2021	Demonstrate an understanding of motor control circuits and how they operate
<b>ELCT 130</b>	Spring 2022	Demonstrate an understanding of motor control circuits and how they operate
<b>NRGY 110</b>	Spring 2019	Demonstrate a basic understanding of hydraulic and pneumatic systems.
<b>ETEC 234</b>	Moratorium	Demonstrate a basic understanding of how industrial process controls are used.
<b>ETEC 236</b>	Moratorium	Demonstrate familiarity with industrial robotic control and programming.
<b>?</b>	Moratorium ?	Demonstrate basic welding procedures using SMAW and GMAW techniques.
<b>ETEC 230</b>	Spring 2020	Demonstrate an understanding of both conventional and renewable energy sources.
<b>NRGY 101</b>	Spring 2020	Demonstrate an understanding of both conventional and renewable energy sources.
<b>NRGY 210</b>	Spring 2021	Demonstrate wind industry safety skills, including climbing, rescue, and confined space procedures.
<b>NRGY 230</b>	Spring 2022	Demonstrate an understanding of wind turbine operations and maintenance procedures.

### 3. Assessment Process

**Individual faculty will be asked to follow the assessment plan and schedule as indicated above. Faculty will be expected to complete reflections for the courses indicated. Please note here 1) when reflections will be completed (e.g., end of block, end of semester, fall, spring, summer, etc.), and 2) any additional assessment processes your department/program will follow.**

Faculty will submit a reflection to the Department Chair each block after a course is taught. The reflection will include performance for course outcome that was assessed as well as any plans for modifying the course in future semesters.

### 4. College Learning Outcomes Assessment

**Please indicate here if CLOs will be assessed using any departmental/programmatic assessments or if they will be assessed by individual faculty using a tool of their choice.** If different assessment methods will be used for each CLO, please specify which CLO(s) will be assessed departmentally or through individual faculty assessments.

Department/Program Assessment \_\_\_X\_\_\_

What is the tool or assessment? We assess student's CLOs throughout our program according to the individual course outcomes.

Individual Faculty Assessment\_\_\_\_\_

### 5. Opportunities for Change

**Please indicate here any opportunities for change on which your department/program plans to work during the assessment cycle and how those changes will be assessed. Examples might include improving pass rates in a course, creating departmental assessments, etc.**

For this year, we will not attempt any major changes due to Covid-19 however; we are exploring the use of online labs.

Please return this completed form to Mandy Wright at [assessment@gfcmu.edu](mailto:assessment@gfcmu.edu).