**Introduction:** UCC’s Assessment Self Study and Action Plan process, together, allow faculty to take stock of assessment processes and prioritize next steps. This form is completed by department chairs, program coordinators, and program directors for their programs, areas of study, or by groups of courses, in collaboration with department faculty. It is completed at the program, area of study, or within a department – whichever is the most meaningful. If this report references multiple programs or groups of courses, it should refer to them specifically where appropriate.

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| To complete the report and Action Plan: Refer to your completed Self-Study. This form will help you reflect on the Self-Study and current status, prioritize program needs, and create a timeline in which these needs should be addressed. Feedback and assistance will be provided for implementation of all program and assessment goals. |

**Assessment Report and Action Plan**

The Report and Action Plan provides a space to reflect on the work you’ve done over the previous year, and looks out three years (until the 7-year accreditation visit). It is used to document and plan for each department/area of study/program’s assessment progress. It is not used as a performance review. Instead, it is to help determine each area’s assessment “status” to move forward productively in ongoing assessment work, and breakdown assessment work into specific tasks to move to the upper levels of the NWCCU assessment rubric.

Note: Separate forms are provided for programs that lead to a specific degree or certificate, versus the departments that support General Education and Arts and Sciences courses. As applicable, see sections 2 and 3 of this document for these forms.

## I. Information

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| **Date** |  |
| **Focus of this report and action plan.**  | Circle: **Individual Program / Area of Study**  / **Group of Courses** |
| **Which one?** Engineering |
| **Department**  | Department of Applied Science and Technology |
| **Programs that make up the Area of Study** *(If Applicable)* | Drafting, Civil Engineering & Surveying Technology, Engineering, Surveying and Geomatics |
| **AAOT outcomes assessed in courses within your department** *(If Applicable)* | N/A  |
| **Faculty who participated in creating this report and action plan** | Clay Baumgartner and Peter Chamberlain |

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| **Discuss the assessment work currently happening, and identify any gaps. Refer to the Self-Study rubric row (SS R1, etc) for associated criteria****Answer:** *Do the programs in your department or area of study have the following foundational elements in place? What is their status of development? List major changes made in the past year and work, if any, that is planned or ongoing. Provide final copies of anything changed this year.*  |
| **Course Learning Outcomes:** *Are the CLOs in applicable courses clear, well written, and identical across sections of the same course?*  **SS R1** | **Emerging**All courses have outcomes but some of them must be reworked and coordinated |
| **Program Learning Outcomes:** *Are the PLOs appropriate and well-written? Have you created/do you use rubrics to assess them?* **SS R2** | **Emerging**All programs have outcomes, but we would like to simplify and make them more measurable  |
| **Curriculum and Assessment Mapping:** *Is this map complete? Does your curriculum align with your PLOs?***SS R3** | **Initial**Convert from old Course Outcome Guide document  |
| **Assessment Implementation***: Is assessment evidence collected? Is it discussed? Is it reviewed using set criteria?* **SS R4** | **Emerging**We have a limited number of course outcomes that are assessed, but we are not currently reviewing.We would like to use Canvas tools to assess our course outcomes. Some courses already have this. |
| **Assessment results are valid:** *How do you know that your assessment work is meaningful, and produces results that allow you to determine whether students are achieving program learning outcomes?* **SS R5** | **Initial** |
| **Assessment results are reliable*:*** *Are assessments standardized across course sections and PLOs? Are rubrics created and used consistently?* **SS R6** | **Initial** |
| **Assessment results lead to changes in teaching and learning strategies and inform planning and budgets:** *What are ways this currently takes place, and/or plans for it to take place?* **SS R7/8** | **Emerging**We have discussed labs that need equipment. |

## II. Assessment Work Reflection – Refer to Assessment Self-Study

## III. Data Reflection (2pgs) *(For now, use what data you may have available. If it is not available, simply note that it is not, and specify what data you need and where you think it would come from. Beginning next year, data packets will be provided to assist with this report.)*

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| **Data Reflection**  |
| *Provide a response to the following data topics – note any trends or notable data that are affecting each of these topics. Discuss any decisions/plans department is considering related to the following topics. Note operational successes and where current decisions will be continued. If applicable, note specifics by program.* |
| **FTE Data:** *Consider factors impacting external and institutional student/industry demand for the program and any reactions* | We would like to see more detailed data from Institutional Research. Looking for FTE by course and major. |
| **Student retention, persistence, progression, achievement:** *Consider trends and results in overall numbers, program demographics, any achievement gaps, and external mitigating factors, if any.* | Many of our students do not have a declared major. We have a survey in the ENGR 111 course that asks students their major and their intended transfer major. We need to do this for other classes and track our own students across all courses in our We would like to see a report from Institutional Research similar to the attached report from 2007-2008, that details enrollment comparisons for first and second year students with specific details of how many first year students are still here for their second year. |
| **Availability of course offerings, scheduling, and mode of instruction:** *Do these align with what you know of student needs? How do you know?* | There are deep chains of prerequisites in the Engineering course of study. Our engineering transfer our students need two years of calculus, one year of physics, and chemistry. Chemistry, physics, and some of your courses also have weekly labs. None of these courses are offered more than once a year.It is difficult to avoid course conflicts, so most of our courses are very early late in the afternoon to avoid conflicts with math and physics.Enrollment caps in physics and chemistry a problem for our program because there isn’t room in the single section for all of the students on campus. |
| **Student Access:** *Do students receive appropriate support and education services to succeed in this program? What collaborations or other provided services may be helpful to your students?* | Math is critical to engineering students. There are math tutors available on campus, but we do not know how many students are using them. We should find out how many of our students are actually getting help from tutors and for which topics.Most of the tutors are for general math, not physics, chemistry, second year calculus, and second year engineering. This is largely due to availability of tutors capable of covering second year courses. A lot of our students are resorting to youtube for homework help. |
| **Recruitment Efforts:** *Describe any recruitment efforts currently underway, those goals, and any results of previous efforts.* |  We have participated in on campus recruiting events throughout the year. Clay is active in First Robotics in the community. He regularly has students on campus.We are trying to develop pathways from middle school and high school to UCC through FLL and FTC. There are some STEAM Hub teaching training for FLL and FTC in mid-August we are partnering with STEAM Hub to host this in mid-August.We hope to have an engineering competition on campus for students, something like a bridge contest or egg contest. |
| **Any other data used to make decisions for planning, resource allocation, curriculum changes, etc?** |  N/A |

## IV. Mission Fulfillment Reflection

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| **Mission Fulfillment** |
| *Discuss the mission of the programs within your area of study, if applicable. If you are reviewing a group of courses that are not aligned with a mission statement, skip to question 3: How has your program/department helped advance UCC’s mission?* |
| **If applicable, what is your program mission?**  | We don’t have a mission statement. |
| **Are you fulfilling your mission? How do you know?** *Indicators, evidence, data, etc.* | N/A |
| **How has your program/department helped to advance UCC's mission?** *Relate to UCC’s Strategic Plan and Goals, which help articulate the ways that UCC accomplishes its mission.* | We are helping to provide education for family wage jobs. |

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| **Action Plan with Timeline**What are your top priorities to address, according to your self-study and analysis? What needs to be developed in order to accomplish the requirements of the assessment model? Try to break these into specific tasks: Review Course Learning Outcomes, Map curriculums and related assessments, Review PLOs with the advisory committee, develop rubrics for learning outcomes, etc. It is expected that all elements referenced on the self-study are addressed, but prioritized in a way that makes sense for your program/area of study/department. **These should be all be operationalized, with evidence, by August 2021**. Curriculum mapping with assessment plans should be completed first, including rubrics for the assessments, so that program level learning outcomes can be assessed beginning next school year. Program Learning Outcomes should all go through at least one round of assessment by August, 2022. Note who and when as possible. |
| **2019-2020** | **2020-2021** | **2021-2022** |
| *In Fall 2019, Program coordinator will work with faculty to create curriculum maps for all programs associated with this area of study. These maps will designate where assessment of PLOs are taking place.* | *In Fall 2020, program coordinator will work with faculty to review the curriculum map and planned assessments and make changes as needed.* |  *In Fall 2021, program coordinator instructors will review the rubrics and assessments used for validity, and will implement changes as needed.* |
|  *In Winter 2019, program coordinator will work with faculty to create rubrics for the assignments associated with 2 PLOs.* |  *In Fall and Winter 2020, program coordinator will work with faculty to create rubrics for the assignments associated with remaining PLOs* |  *Fall 2021-22, instructors will complete course learning outcome assessment, program learning outcome assessment, and/or universal learning outcome assessment* |
|  *In Spring 2020, program coordinator will work with faculty to determine which instructors will produce a program learning outcome assessment within their course that spring or summer.* | *In Winter and Spring, program coordinator will work with faculty to determine which instructors will produce a program learning outcome assessment and these will be completed.* | *Winter 2022, instructors will discuss how the changes they implemented to rubrics and final assessments have changed their assessment results, and whether that’s been consistent across sections of different courses* |
| *Each term, instructors of sections of the same course will meet to discuss the major assessments they are using in classes to determine whether the assessments are consistent across different sections of the course.* |  *In Fall 2020, instructors will review their course learning outcomes for each course they teach that term and make revisions as necessary, working in conjunction with advisory board members to make sure that learning outcomes support program outcomes and external requirements.* |  *Spring 2021, program coordinator, advisory board, and instructors will conduct a need analysis of the industry and get feedback from the advisory board to begin an evaluation of PLOs.* |
|  *Each instructor will produce a course learning outcome assessment, program learning outcome assessment, and/or universal learning outcome assessment.* |  *Each instructor will produce a course learning outcome assessment, program learning outcome assessment, and/or universal learning outcome assessment.* |   |

## V. Action Plan with Timeline

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| **Resources or Assistance Required to Complete the Action Plan on the Stated Timeline** |
| The Assessment team will work to provide 1:1 and group assistance in an ongoing manner. **What are the resources and assistance you may need to complete your action plan?** For example estimated work time, how-to resources, in-service sessions, workshops, and any other considerations and support**.** | In an ideal world, we would want 3 ILCs per instructor to provide time to complete the tasks.Examples of filled forms and  |

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| **Action Plan Timeline EXAMPLEWhat are your top priorities to address, according to your self-study and analysis? What needs to be developed in order to accomplish the requirements of the assessment model? Try to break these into specific tasks: Review Course Learning Outcomes, Map curriculums and related assessments, Review PLOs with the advisory committee, develop rubrics for learning outcomes, etc.** **The expectation is that assessment work is completed in a way that makes sense for your working groups. It is expected that all elements referenced on the self-study are addressed, but prioritized in a way that makes sense for your department/area of study/program. These should be all be operationalized, with evidence, by August 2021. Curriculum mapping with assessment plans should be completed first, including rubrics for the assessments, so that program level learning outcomes can be assessed beginning next school year. Program Learning Outcomes should all go through at least one round of assessment by August, 2022. Note who and when as possible.** |
| **2019-2020** | **2020-2021** | **2021-2022** |
|  *Ex. In Fall 2019, Program coordinator will work with faculty to create curriculum maps for all programs associated with this area of study. These maps will designate where assessment of PLOs are taking place.* | *In Fall 2020, program coordinator will work with faculty to review the curriculum map and planned assessments and make changes as needed.* |  *In Fall 2021, program coordinator instructors will review the rubrics and assessments used for validity, and will implement changes as needed.* |
|  *In Winter 2019, program coordinator will work with faculty to create rubrics for the assignments associated with 2 PLOs and one ULO.* |  *In Fall and Winter 2020, program coordinator will work with faculty to create rubrics for the assignments associated with remaining PLOs* |  *Fall 2021-22, instructors will complete course learning outcome assessment, program learning outcome assessment, and/or universal learning outcome assessment* |
|  *In Spring 2020, program coordinator will work with faculty to determine which instructors will produce a program learning outcome assessment within their course that spring or summer.* | *In Winter and Spring, program coordinator will work with faculty to determine which instructors will produce a program learning outcome assessment and these will be completed.* | *Winter 2022, instructors will discuss how the changes they implemented to rubrics and final assessments have changed their assessment results, and whether that’s been consistent across sections of different courses* |
| *Each term, instructors of sections of the same course will meet to discuss the major assessments they are using in classes to determine whether the assessments are consistent across different sections of the course.* |  *In Fall 2020, instructors will review their course learning outcomes for each course they teach that term and make revisions as necessary, working in conjunction with advisory board members to make sure that learning outcomes support program outcomes and external requirements.* |  *Spring 2021, program coordinator, advisory board, and instructors will conduct a need analysis of the industry and get feedback from the advisory board to begin an evaluation of PLOs.* |
|  *Each instructor will produce a course learning outcome assessment, program learning outcome assessment, and/or universal learning outcome assessment.* |  *Each instructor will produce a course learning outcome assessment, program learning outcome assessment, and/or universal learning outcome assessment.* |   |