### Program-Level Assessment Plan

<table>
<thead>
<tr>
<th>Program: Aviation</th>
<th>Degree Level: Ph.D. in Aviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department: Aviation Science</td>
<td>College/School: Parks College of Engineering, Aviation and Technology</td>
</tr>
<tr>
<td>Date (Month/Year): July 2020</td>
<td>Primary Assessment Contact: Stephen G. Magoc</td>
</tr>
</tbody>
</table>

Note: Each cell in the table below will expand as needed to accommodate your responses.

<table>
<thead>
<tr>
<th>#</th>
<th>Student Learning Outcomes</th>
<th>Curriculum Mapping</th>
<th>Assessment Methods</th>
<th>Use of Assessment Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Assess relevant literature or scholarly contributions in the aviation field of study</td>
<td>ASCI 5010 Analysis of Aviation Safety Data (Introduced) ASCI 5220 Aviation Safety Programs (Developed) ACI 5460 Qualitative Data Analysis (Achieved) ASCI 6020 Flight Operations Business and Administration (Reinforced)</td>
<td><strong>Student Artifacts (What)</strong>&lt;br&gt;1. Which student artifacts will be used to determine if students have achieved this outcome?&lt;br&gt;2. In which courses will these artifacts be collected?&lt;br&gt;<strong>Evaluation Process (How)</strong>&lt;br&gt;1. What process will be used to evaluate the student artifacts, and by whom?&lt;br&gt;2. What tools(s) (e.g., a rubric) will be used in the process?&lt;br&gt;Note: Please include any rubrics as part of the submitted plan documents.&lt;br&gt;<strong>Use of Assessment Data</strong>&lt;br&gt;1. How and when will analyzed data be used by faculty to make changes in pedagogy, curriculum design, and/or assessment work?&lt;br&gt;2. How and when will the program evaluate the impact of assessment-informed changes made in previous years?</td>
<td>1. The course instructor will collect samples of the student artifacts and evaluate them to determine if the students in the course meet the level required for the student learning outcome.&lt;br&gt;2. The course instructor will use a department rubric when making the evaluation of the student learning outcomes.&lt;br&gt;3. The course instructor will...</td>
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| 2 | Apply the major practices, theories, or research methodologies in the aviation field of study. | ASCI 5010 Analysis of Aviation Safety Data (Introduced)  
ASCI 5460 Qualitative Data Analysis (Achieved)  
ASCI 5470 Quantitative Data Analysis (Achieved)  
ASCI 6010 Federal and International Aviation (Achieved)  
ASCI 6070 Aviation Training Methods (Reinforced) | 1. Student artifacts to be used will include, but are not limited to the following:  
Assignments  
Quizzes  
Tests  
Research Papers  
2. Student artifacts will be collected from all listed courses. | 1. The course instructor will collect samples of the student artifacts and evaluate them to determine if the students in the course meet the level required for the student learning outcome.  
2. The course instructor will use a department rubric when making the evaluation of the student learning outcomes.  
3. The course instructor will share the course evaluation data with the department faculty during the program assessment process. | 1. The rubrics and sample evidence from the courses will be used by the department faculty to determine if changes to pedagogy, curriculum design, and/or assessment work is required for student success in achieving the student learning outcome.  
2. Reviews of the impact of any such assessment-informed changes made in previous years will be made by the department faculty every two years during the department’s normal assessment cycle. |

| 3 | Apply knowledge from the field(s) of study to address problems in broader contexts. | ASCI 5030 Aviation Security Management (Developed)  
ASCI 5220 Aviation Safety Programs (Developed)  
ASCI 6030 Aviation and Public Policy (Reinforced) | 1. Student artifacts to be used will include, but are not limited to the following:  
Assignments  
Quizzes  
Tests  
Research Papers  
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2. Reviews of the impact of any such assessment-informed changes made in previous years will be made by the department faculty every two years during the department’s normal assessment cycle. |
|   | Articulate arguments or explanations to both a disciplinary or professional audience and to a general audience, in both oral and written forms. | ASCI 5030 Aviation Security Management (Developed)  
ASCI 5040 Human Factors in Aviation Safety (Developed)  
ASCI 5210 Aviation Organization Theory and Management (Reinforced)  
ASCI 6010 Federal and International Aviation (Achieved)  
ASCI 6990 Dissertation Research (Achieved) | 1. Student artifacts to be used will include, but are not limited to the following: Assignments  
Quizzes  
Tests  
Research Papers  
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3. The course instructor will share the course evaluation data with the department faculty during the program assessment process. | department faculty every two years during the department’s normal assessment cycle. |
|---|---|---|---|---|---|
| 4 | Evidence of scholarly and/or professional integrity in the field of study. | ASCI 5230 Professional Ethics and Standards (Reinforced)  
ASCI 5470 Quantitative Data Analysis (Achieved)  
ASCI 6050 Legal and Ethical Issues in Aviation (Achieved) | 1. Student artifacts to be used will include, but are not limited to the following: Assignments  
Quizzes  
Tests  
Research Papers  
2. Student artifacts will be collected from all listed courses. | 1. The course instructor will collect samples of the student artifacts and evaluate them to determine if the students in the course meet the level required for the student learning outcome.  
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2. Reviews of the impact of any such assessment-informed changes made in previous
Additional Questions

1. On what schedule/cycle will faculty assess each of the program’s student learning outcomes? (Note: It is not recommended to try to assess every outcome every year.)

In the fall of 2019, the Department revised its assessment of the Master’s in Aviation program to include the assessment of the student learning outcomes over a two year period. The program’s student learning outcomes will be assessed on this two-year cycle which will allow for a complete assessment of all program student learning outcomes during the cycle. The assessment schedule is detailed as follows. The assessment schedule is detailed as follows.

<table>
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<tr>
<th>Student Learning Outcome</th>
<th>Assessment Period</th>
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<tr>
<td>1. Assess relevant literature or scholarly contributions in the aviation field of study</td>
<td>Spring 2019</td>
<td>Spring 2021</td>
<td>Spring 2023</td>
</tr>
<tr>
<td>2. Apply the major practices, theories, or research methodologies in the aviation field of study.</td>
<td>Spring 2019</td>
<td>Spring 2021</td>
<td>Spring 2023</td>
</tr>
<tr>
<td>3. Apply knowledge from the field(s) of study to address problems in broader contexts.</td>
<td>Spring 2020</td>
<td>Spring 2022</td>
<td>Spring 2024</td>
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<tr>
<td>4. Articulate arguments or explanations to both a disciplinary or professional audience and to a general audience, in both oral and written forms.</td>
<td>Spring 2020</td>
<td>Spring 2022</td>
<td>Spring 2024</td>
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</table>
2. Describe how, and the extent to which, program faculty contributed to the development of this plan.

The entire faculty of the Department of Aviation Science met at the end of the spring 2019 and spring 2020 semesters to discuss the course activities and to assess the student learning outcomes of the Master’s in Aviation program. Although a course instructor presents each of his/her courses taught, any of the faculty members may recommend changes to the pedagogy, curriculum design, and/or assignments and tests given to the student that are subsequently used in the assessment process.

IMPORTANT: Please remember to submit any rubrics or other assessment tools along with this plan.
Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5010 Introduction to Aviation Research Methods
Semester Taught: 
Number of Students in Course: 

<table>
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<tr>
<th>Student Learning Outcome Assessed</th>
<th>Assessment Results: (Indicate what % of class achieved a minimum score of 80%)</th>
<th>Benchmark achieved? (Benchmark: 80% of students will score a minimum of 80% = “B”)</th>
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<tr>
<td>1. Assess relevant literature or scholarly contributions to the aviation field of study.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Apply the major practices, theories or research methodologies in the aviation field of study.</td>
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Course Assessment (Intended Use of Results)
The following will be used for recommendations to improve the quality of course delivery based on assessment results. These recommendations may include prerequisite change; changing course outline and adding more topics; adding a third assessment; changing the course sequence, etc.

*Attach description of assignment used for assessment and samples of student work.*
Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5030 Aviation Security Management  
Semester Taught:  
Number of Students in Course:

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<td>3. Apply knowledge of the aviation field of study to address problems in broader contexts.</td>
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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5040 Human Factors in Aviation Safety
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5210 Aviation Organization Theory and Management
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5220 Aviation Safety Programs
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5230 Professional Ethics and Standards
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5460 Qualitative Data Analysis
Semester Taught:
Number of Students in Course:

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<td>1. Assess relevant literature or scholarly contributions to the aviation field of study.</td>
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<tr>
<td>2. Apply the major practices, theories or research methodologies in the aviation field of study.</td>
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Graduate Course Assessment Form
Assess Student Learning Outcomes

Course: ASCI 5470 Quantitative Data Analysis
Semester Taught: 
Number of Students in Course: 

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<td>2. Apply the major practices, theories or research methodologies in the aviation field of study.</td>
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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 5950 Special Study for Exam
Semester Taught:
Number of Students in Course:

| Student Learning Outcome Assessed | Assessment Results: (Indicate what % of class achieved a minimum score of 80%) | Benchmark achieved? (Benchmark: 80% of students will score a minimum of 80% = “B”) |
|----------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------
| 4. Articulate arguments or explanations to both a disciplinary or professional aviation audience and to a general audience, in both oral and written forms. |                                                                            |                                                                                  |

Course Assessment (Intended Use of Results)
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*Attach description of assignment used for assessment and samples of student work.*
Graduate Course Assessment Form

Assess Student Learning Outcomes

Course:  ASCI 5990 Thesis Research  
Semester Taught:  
Number of Students in Course:  

| Student Learning Outcome Assessed | Assessment Results:  
(Indicate what % of class achieved a minimum score of 80%) | Benchmark achieved?  
(Benchmark: 80% of students will score a minimum of 80% = “B”) |
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*Attach description of assignment used for assessment and samples of student work.*
Graduate Course Assessment Form
Assess Student Learning Outcomes

Course: ASCI 6010 Federal and International Regulations
Semester Taught:
Number of Students in Course:

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*Attach description of assignment used for assessment and samples of student work.*
Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 6020 Flight Operations Business and Administration
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 6030 Flight Operations Business and Administration
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 6050 Legal and Ethical Issues in Aviation
Semester Taught:
Number of Students in Course:

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Graduate Course Assessment Form

Assess Student Learning Outcomes

Course: ASCI 6070 Aviation Training Methods
Semester Taught:
Number of Students in Course:

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Assess Student Learning Outcomes

Course: ASCI 6990 Dissertation Research
Semester Taught:
Number of Students in Course:

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