SAINT LOUIS UNIVERSITY.

Program Assessment Plan

Program: Bachelor of Science in Aeronautics with a Concentration in Aviation Management

Department: Aviation Science

College/School: Parks College of Engineering, Aviation and Technology

Date: March 19, 2018

Primary Assessment Contact: Stephen Magoc, Chairperson

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

#	**Program Learning Outcomes** What do the program faculty expect all students to know, or be able to do, as a result of completing this program? ▪ *Note: These should be measurable, and manageable in number (typically 4-6 are sufficient).*	**Assessment Mapping** From what specific courses (or other educational/professional experiences) will artifacts of student learning be analyzed to demonstrate achievement of the outcome? Include courses taught at the Madrid campus and/or online as applicable.	**Assessment Methods** What specific artifacts of student learning will be analyzed? How, and by whom, will they be analyzed? ▪ *Note: the majority should provide direct, rather than indirect, evidence of achievement.* Please note if a rubric is used and, if so, include it as an appendix to this plan.	**Use of Assessment Data** How and when will analyzed data be used by faculty to make changes in pedagogy, curriculum design, and/or assessment work? How and when will the program evaluate the impact of assessment-informed changes *made in previous years*?
A	Apply mathematics, science, and applied sciences to aviation related disciplines.	The data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of the airline simulation project and associated student group presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI 4650 course. **Indirect Measures:** End-of course student surveys.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can apply mathematics, science, and applied science to aviation disciplines. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted

				during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
B	Analyze and interpret data.	The data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of the airline simulation project and associated student group presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI 4650 course. **Indirect Measures:** End-of course student surveys.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can analyze and interpret data. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
C	Work effectively on multi-disciplinary and diverse teams.	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4350 Team Resource Mgt. ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of a student group project and the senior design presentation and poster project (monitored by the course instructor and other faculty members) will be obtained from the ASCI 4350 course. The results of the airline simulation project and associated class presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI 4650 course. **Indirect Measures:** End-of course student surveys. Assessment by external evaluators.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can work effectively on multi-disciplinary and diverse teams. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis

				University's Office of the Provost.
D	Make professional and ethical decisions.	The following course will be used to assess if the undergraduate programs fulfills this student learning outcome: ASCI 4250 Prof. Ethics and Standards	**Direct Measures**: The student learning outcome will be assessed using data from: The results of embedded questions in quizzes; mid-term examinations, final examinations, case studies and evidence of the student knowledge of course topics found in the research paper requirement of the course will be obtained from the ASCI 4250 course. **Indirect Measures:** End-of course student surveys. Student awareness of the Parks College's Academic Integrity Policy. Department level aggregate data of violations of the Academic Integrity Policy.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can make professional and ethical decisions. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
E	Communicate effectively, using both written and oral communication skills.	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4350 Team Resource Mgt. ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of a student group project and the senior design presentation and poster project (monitored by the course instructor and other faculty members) will be obtained from the ASCI 4350 course. The results of the airline simulation project and associated class presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI 4650 course. **Indirect Measures:** End-of course student surveys.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can communicate effectively, using both written and oral communication skills. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
F	Engage in and recognize the need for life-long learning.	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome:	**Direct Measures**: The student learning outcome will be assessed using data from:	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using

		ASCI 1010 Professional Orientation ASCI 4350 Team Resource Mgt.	The results of embedded questions in quizzes, tests and the final exam and of the student group presentations will be obtained from the ASCI 1010 course. The results of a student group project and the senior design presentation and poster project (monitored by the course instructor and other faculty members) will be obtained from the ASCI 4350 course. **Indirect Measures:** End-of course student surveys.	a rubric applied to the student data obtained from the courses listed to determine whether the students can engage in and recognize the need for life-long learning. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
G	Assess contemporary issues.	The following course will be used to assess if the undergraduate programs fulfills this student learning outcome: ASCI 4450 Aviation Law	**Direct Measures**: The student learning outcome will be assessed using data from: The scoring rubrics used to determine the results of student and group presentations of select case studies will be obtained from the ASCI 4450 course. **Indirect Measures:** End-of course student surveys.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can assess contemporary issues. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
H	Use the techniques, skills, and modern technology necessary for professional practice.	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of the airline simulation project and associated student group presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI 4650 course.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can use the techniques, skills and modern technology necessary for professional practice.

			Indirect Measures: End-of course student surveys.	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
I	Assess the national and international aviation environment.	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4800 International Aviation	**Direct Measures**: The student learning outcome will be assessed using data from: The scoring rubrics used to determine the results of weekly discussions and group presentations of select national and international aviation topics will be obtained from the ASCI 4800 course. **Indirect Measures:** End-of-course student surveys	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can assess the national and international environment. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
J	Apply pertinent knowledge in identifying and solving problems.	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4350 Team Resource Mgt. ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of a student group project and the senior design presentation and poster project (monitored by the course instructor and other faculty members) will be obtained from the ASCI 4350 course. The results of the airline simulation project and associated class presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can apply pertinent knowledge in identifying and solving problems. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation.

			4650 course. **Indirect Measures:** End-of course student surveys.	Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
K	Apply knowledge of business sustainability to aviation issues.	The following course will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4650 Econ of Air Transportation	**Direct Measures**: The student learning outcome will be assessed using data from: The results of the airline simulation project and associated class presentations (monitored by the course instructor and additional faculty members) will be obtained from the ASCI 4650 course. **Indirect Measures:** End-of course student surveys.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can apply knowledge of business sustainability to aviation issues. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.

Additional Questions

1. On what schedule/cycle will faculty assess each of the above-noted program learning outcomes? *(It is <u>not recommended</u> to try to assess every outcome every year.)*

The program student learning outcomes will be assessed on a two-year cycle that allows for a complete assessment of all program student learning outcomes during the cycle.			
A. Apply mathematics, science, and applied sciences to aviation related disciplines.	Fall 2017	Fall 2019	Fall 2021
B. Analyze and interpret data.	Fall 2017	Fall 2019	Fall 2021

C. Work effectively on multi-disciplinary and diverse teams.	Fall 2017	Fall 2019	Fall 2021
D. Make professional and ethical decisions.	Spring 2018	Spring 2020	Spring 2022
E. Communicate effectively, using both written and oral communication skills.	Spring 2018	Spring 2020	Spring 2022
F. Engage in and recognize the need for life-long learning.	Spring 2018	Spring 2020	Spring 2022
G. Assess contemporary issues.	Fall 2018	Fall 2021	Fall 2022
H. Use the techniques, skills, and modern technology necessary for professional practice.	Fall 2018	Fall 2021	Fall 2022
I. Assess the national and international aviation environment.	Fall 2018	Fall 2021	Fall 2022
J. Apply pertinent knowledge in identifying and solving problems.	Spring 2019	Spring 2021	Spring 2023
K. Apply knowledge of business sustainability to aviation issues.	Spring 2019	Spring 2021	Spring 2023

2. Describe how, and the extent to which, program faculty contributed to the development of this plan.

The faculty of the Department of Aviation Science contributed to the development of the entire plan through a series of meetings and retreats.

3. On what schedule/cycle will faculty review and, if needed, modify this assessment plan?

Reviews of the impact of programmatic changes will be conducted at least once per year and the records of these reviews will be maintained by the department.

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Program Assessment Plan

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Department: Aviation Science

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Primary Assessment Contact: Stephen Magoc, Chairperson

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#	**Program Learning Outcomes** What do the program faculty expect all students to know, or be able to do, as a result of completing this program? ▪ *Note: These should be measurable, and manageable in number (typically 4-6 are sufficient).*	**Assessment Mapping** From what specific courses (or other educational/professional experiences) will artifacts of student learning be analyzed to demonstrate achievement of the outcome? Include courses taught at the Madrid campus and/or online as applicable.	**Assessment Methods** What specific artifacts of student learning will be analyzed? How, and by whom, will they be analyzed? ▪ *Note: the majority should provide direct, rather than indirect, evidence of achievement.* Please note if a rubric is used and, if so, include it as an appendix to this plan.	**Use of Assessment Data** How and when will analyzed data be used by faculty to make changes in pedagogy, curriculum design, and/or assessment work? How and when will the program evaluate the impact of assessment-informed changes *made in previous years*?
A	Apply mathematics, science, and applied sciences to aviation related disciplines.	The data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: ASCI 4022 Jet Flying Techniques II	**Direct Measures**: The student learning outcome will be assessed using data from: The final LOFT scenario flight exam (videotaped and monitored by the course instructor and an additional faculty member) will be obtained from the ASCI 4022 course. **Indirect Measures:** End-of course student surveys.	Assessment of the program learning outcome will be assessed on a two-year cycle. The assessment results will be analyzed by the department faculty using a rubric applied to the student data obtained from the courses listed to determine whether the students can apply mathematics, science, and applied science to aviation disciplines. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by

				the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
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			End-of course student surveys.	pedagogy and/or assessment revisions will be made by the department faculty at to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted during the following year and the records of these reviews will be maintained by the department and reported to the Dean of Parks College of Engineering, Aviation and Technology and to Saint Louis University's Office of the Provost.
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