

2016-2017 Assessment Cycle

Assessment Plan

Measures

DB_MSA Outcomes_(AABI Section 4.3)

Outcome

DB_MSA_Item_a.

Apply mathematics, science, and applied sciences at a level appropriate to aviation-related disciplines at the master's level, including an adequate foundation in statistics.

▼ **Measure:** Graduating Student Survey (GSS) Program Skill Survey
Program level; Indirect - Survey

Details/Description: Students will assess PO through question on GSS.

Criterion for Success: 80% of students assess as "Very Much" and "Quite a Bit"; no more than 10% of students assess as "Very Little" and "Not at All".

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: IR, Program Coordinator

▼ **Measure:** MSA 662, Average of three Exams and Homework assignments
Course level; Direct - Exam

Details/Description: Students are taught statistical theory and operations for analyzing aviation/aerospace industry data. They learn to manually calculate equations as well as use statistical analysis software program (SPSS). Assessment done through average of three exams and three SPSS assignments.

Criterion for Success: 80% of students earn a 'B' or better from the average of three exams and three SPSS assignments; fewer than 10% earn below a 'B'.

Timeframe of Data Collection: Fall 2016 - Spring 2017 semesters

Key/Responsible Personnel: MSA 662 Professor, Program Coordinator.

▼ **Measure:** MSA 670, Final grade
Course level; Direct - Exam

Details/Description: Assessment made from the average of 2 Statistical Assignments, a research proposal and the final exam.

Criterion for Success: 80% of student earn a B or better on all assignments; no more than 10% less than a C on all assignments

Timeframe of Data Collection: Fall 2016 - Spring 2017 semesters

Key/Responsible Personnel: MSA 670 Professor, Program Coordinator

▼ **Measure:** MSA 672, Apply mathametics, science and applied science
Course level; Direct - Exam

Details/Description: Assessment done through average score on written exams that involves using scientific modeling and data analysis, topic including probability and statistics.

Criterion for Success: 80% of students get a B or better, no more than 10% of students get no worse than C on the final grade.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 672 Professor, Program Coordinator

▼ **Measure:** MSA 674, Case Study Evaluation
Course level; Direct - Student Artifact

Details/Description: Assessment done through evaluation completion of Case Study using the Microsoft Project Management software program.

Criterion for Success: 80% of students get a B or better; no more than 10% of students get no worse than C on the case study grade.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 674 Professor, Program Coordinator

▼ **Measure:** MSA 691, Statistical Analysis on Graduate Research Project
Course level; Direct - Other

Details/Description: Provide a comprehensive statistical analysis (Chapter 4) Graduate Research Project.

Criterion for Success: 80% of student earn a B or better on Chapter 4 of the GCP; no more than 10% less than a C on Chapter 4 of the GCP.

Timeframe of Data Collection: Fall 2016-Spring 2017

Key/Responsible Personnel: MSA 691 Professor, Program Coordinator

DB_MSA_Item_e.

Communicate effectively, using both written and oral communication skills.

▼ **Measure:** Graduating Student Survey (GSS) Program Skill Survey
Program level; Indirect - Survey

Details/Description: Students will assess PO through question on GSS. "Demonstrate professional communication and oral presentation skills using appropriate media."

Criterion for Success: 80% of students assess as "very much" and "Quire a Bit"; no more than 10% of students assess as "Very Little" and "Not at All".

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: IR, Program Coordinator

▼ **Measure:** MSA 524, Oral Presentation
Course level; Direct - Other

Details/Description: Assessment done through Oral Presentation of final project involving an Aviation topic.

Criterion for Success: 80% of the students get a B or Better; no more than 10% of students get no worse than C.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 524 Professor, Program Coordinator

▼ **Measure:** MSA 662, Average of three Exams and Homework assignments
Course level; Direct - Exam

Details/Description: Students learn effective written communication skills, notably technical writing skills while adhering to APA format, which are demonstrated in their SPSS written assignments. They write a standard Results and Discussion section to communicate their findings of dataset analyses.

Criterion for Success: 80% of students earn an average of 'B' or better on three exams and three SPSS assignments; fewer than 10% earn below a 'B'.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 662 Professor, Program Coordinator

▼ **Measure:** MSA 670, Research Proposal Grade
Course level; Direct - Student Artifact

Details/Description: Assessment made from evaluation of final draft of research proposal for Graduate Research Project.

Criterion for Success: 80% of student earn a B or better on final paper; no more than 10% less than a C on final paper.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 670 Professor, Program Coordinator

▼ **Measure:** MSA 672, Oral Presentation and Group Report
Course level; Direct - Other

Details/Description: As part of the requirements for the group project, each group is required to present their findings in front of the class and a final project report is required, using APA format.

Criterion for Success: 80% of students get a B or better, no more than 10% of students get no worse than C on the group project and presentation

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 672 Professor, Program Coordinator

▼ **Measure:** MSA 674, Final Grade
Course level; Direct - Other

Details/Description: Assessment done by a combined final grade including Oral Presentation of final project and two tests written in essay format.

Criterion for Success: 80% of students get a B or better; no more than 10% of students get no worse than a final grade of C.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 674 Professor, Program Coordinator

▼ **Measure:** MSA 691, Completed Graduate Research Project (GCP) and Oral Presentation
Course level; Direct - Other

Details/Description: Assessment of complete manuscript for GCP and give an oral presentation to the class

Criterion for Success: 80% of student earn a B or better on final paper and oral presentation; no more than 10% less than a C on final paper and presentation

Timeframe of Data Collection: Fall 2016-Spring 2017

Key/Responsible Personnel: MSA 691 Professor, Program Coordinator

DB_MSA_Item_f.

Engage in and recognize the need for life-long learning.

▼ **Measure:** Graduating Student Survey (GSS) Program Skill Survey
Program level; Indirect - Survey

Details/Description: Students assess PO through question on GSS.

Criterion for Success: 80% of students assess as "Very Much" and "Quite a Bit"; no more than 10% of students assess as "Very Little" and "Not at All".

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: IR, Program Coordinator

▼ **Measure:** MSA 609, Average of three article reviews
Course level; Direct - Other

Details/Description: Assessment done through the average score of three article review with analysis of an aviation company related to Aircraft Maintenance Management.

Criterion for Success: 80% of the students get a "B" or better; no more than 10% get no worse than "C" for a combined average of the three article reviews.

Timeframe of Data Collection: Summer B Semester, 2016

Key/Responsible Personnel: MSA 609 Professor, Program Coordinator

▼ **Measure:** MSA 636, Average of three article reviews
Course level; Direct - Other

Details/Description: Assessment done through the average score of three article reviews with analysis of an aviation company related to Strategic Planning and Management.

Criterion for Success: 80% of the students get a "B" or better; no more than 10% get no worse than "C" for a combined average of the three article reviews.

Timeframe of Data Collection: Summer B Semester, 2016

Key/Responsible Personnel: MSA 636 Professor, Program Coordinator

DB_MSA_Item_i.

Assess the national and international aviation environment.

▼ **Measure:** Graduating Student Survey (GSS) Program Skill Survey
Program level; Indirect - Survey

Details/Description: Students will assess the PO through question on GSS, "Demonstrate the ability to evaluate current industry issues or problems using critical thinking skills."

Criterion for Success: 80% of students assess as "very much" and "Quite a Bit"; not more than 10% of students assess as "Very Little" and "Not at All".

Timeframe of Data Collection: Fall - Spring 2017

Key/Responsible Personnel: IR, Program Coordinator

▼ **Measure:** MSA 524, Final Grade
Course level; Direct - Exam

Details/Description: Assessment done through evaluating final grade comprised of article reviews, midterm and final exam which involves the introduction and evaluation of the National and International aviation environment.

Criterion for Success: 80% of students get a B or better; no more than 10% of students get no worse than C.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 524 Professor, Program Coordinator

▼ **Measure:** MSA 662, Average of three Exams and Homework assignments
Course level; Direct - Exam

Details/Description: Students perform statistical analyses on airline performance datasets from the Bureau of Transportation Statistics website.

Criterion for Success: 80% of students earn an average of 'B' or better on three exams and three SPSS assignments; fewer than 10% earn below a 'B'.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 662 Professor, Program Coordinator

▼ **Measure:** MSA 670, Aviation Journal Article Reviews
Course level; Direct - Student Artifact

Details/Description: Assessment made from Assignment of written review of three Aviation Journal articles.

Criterion for Success: 80% of student earn a B or better on assignment; no more than 10% less than a C on assignment

Timeframe of Data Collection: Fall 2016, Spring 2017

Key/Responsible Personnel: MSA 672, Program Coordinator

▼ **Measure:** MSA 672, Group Project
Course level; Direct - Other

Details/Description: Assessment done through evaluation completion of real world group project using Vitech CORE, project will be involved in real world transportation problems, including the EcoCAR competition. This project is designed to evaluation student's ability to research and solve a real world problem using systems engineering principles.

Criterion for Success: 80% of students get a B or better, no more than 10% of students get no worse than C on the group project.

Timeframe of Data Collection: Fall 2016 - Spring 2017

Key/Responsible Personnel: MSA 672, Program Coordinator

▼ **Measure:** MSA691, Literature Review for Graduate Capstone Project (Chapter 2)
Course level; Direct - Other

Details/Description: Assessment made from the literature review (Chapter 2) of the Graduate Research Project

Criterion for Success: 80% of student earn a B or better on Chapter 2; no more than 10% less than a C on Chapter 2.

Timeframe of Data Collection: Fall 2016-Spring 2017

Key/Responsible Personnel: MSA 691 Professor, Program Coordinator

DB_MSA_Item_k.

Apply knowledge of business sustainability to aviation issues.

▼ **Measure:** Graduating Student Survey (GSS) Program Skill Survey
Program level; Indirect - Survey

Details/Description: Students will assess PO through question on GSS.

Criterion for Success: 80% of students assess as "Very Much" and "Quite a Bit"; no more than 10% of students assess as "Very Little" and "Not at All".

Timeframe of Data Collection: Fall 2016 - Spring 2017.

Key/Responsible Personnel: Program Coordinator

▼ **Measure:** MSA 609, Final Project Grade
Course level; Direct - Other

Details/Description: Assessment done through the final grade of a project involving an analysis of a company related to Aircraft Maintenance Management.

Criterion for Success: 80% of the students get a "B" or better; no more than 10% get no worse than "C" on the project grade.

Timeframe of Data Collection: Summer B semester, 2016

Key/Responsible Personnel: MSA 609 Professor, Program Coordinator

▼ **Measure:** MSA 636, Final project grade
Course level; Direct - Other

Details/Description: Assessment done through the final grade of a case analysis/project of an aviation company related to Strategic Planning and Management.

Criterion for Success: 80% of the students get a "B" or better; no more than 10% get no worse than "C" on the project grade.

Timeframe of Data Collection: Summer B semester, 2016

Key/Responsible Personnel: MSA 636 Professor, Program Coordinator

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