

Assessment Plan Layout Table 2020-2021

School of Aeronautics

09/30/2021

DR. JONATHAN VELAZQUEZ RIVERA  
Assessment Coordinator for Aviation Programs



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**Assessment Plan Layout Table for all Aviation programs**

[ ] = Core course, [P] = Professional Pilot course, [A] = Aviation Management course. *Red font indicates the assessment report was submitted but no evidence was attached*

<p style="text-align: center;"><b>Learning Outcome</b></p> <p>What should a student be able to know, value, or be able to do upon graduation and beyond?</p>	<p style="text-align: center;"><b>Data Collection and Analysis</b></p> <ol style="list-style-type: none"> <li>1. What assessment tools and/or methods will you use to determine achievement of the learning outcomes?</li> <li>2. Describe how the data from these tools and/or methods will be/have been collected.</li> <li>3. Explain the procedure to analyze the data.</li> </ol>	<p style="text-align: center;"><b>Date and Person Responsible for Data Collection and Analysis</b></p> <p>When will the data be collected? Who is the faculty professor in charge of collecting and analyzing it?</p>	<p style="text-align: center;"><b>Results of Evaluation</b></p> <p>What were the findings of the analysis?</p>	<p style="text-align: center;"><b>Use of Evaluation Results</b></p> <ol style="list-style-type: none"> <li>1. List any specific recommendations.</li> <li>2. Describe changes in curriculum, courses, or procedures that are proposed or were made or are being made as a result of the program learning outcome process?</li> </ol>
<p><b>PHYS 3500</b></p> <p><b>Aviation Physics</b></p> <p>Students must demonstrate the ability to apply mathematics, science, and applied sciences to aviation-related disciplines.</p> <p>AABI Outcome A</p>	<p><b>A.1: Students must be able to identify, execute, solve, and evaluate concepts and equations related to the solution of problems within aviation physics.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more</li> </ol>	<p>Pending:</p> <p>To Be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>



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	on these specific questions.			
<p><b>AWSC 2020</b></p> <p><b>Aviation Fundamentals</b></p> <p>Aviation Management students must demonstrate the ability to apply mathematics, science, and applied sciences to aviation-related disciplines.</p>	<p><b>A.2: Students will describe the principles of aircraft design, performance and operating characteristics; and the regulations related to the maintenance of aircraft and associated systems.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be the final exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more on the specific questions (the targeted questions were 12-13, and 15-42).</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports only 12% of students scored above 70% on these specific-test items.</p> <p>See course instructor for sample tests and statistics.</p>	<p><b>Assessment goal was NOT met.</b></p> <p>It is worth mentioning that this is the first time the course had been delivered by this professor. In addition, the course was administrated as a hybrid course (where students are responsible for 50% of the content by themselves). Finally, due to Internet interruptions the second session on aviation maintenance regulations was only delivered for 30 minutes. Even though, the course instructor sent them a summarized handout and opened a Discussion Board (to answer any questions) it seems students did not do the necessary homework to cover these topics.</p> <p>The delivery of this course as a hybrid one is questionable at the early (freshman) stage of the student's academic careers. Having said that, there was a good mix of freshman, sophomore, junior, and even senior students enrolled in this course.</p> <p>Also, as noted by their overall exam performance, it is evident students did not take care of the topics not covered due to the Internet connection issue by themselves.</p> <p>I recommend returning this course to a regular mode (i.e., not WAB but WBA).</p>



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<p><b>AWSC 2115</b></p> <p><b>Private Pilot Theory</b></p> <p>Flight students must demonstrate the ability to apply mathematics, science, and applied sciences to aviation-related disciplines.</p> <p>AABI Outcome A</p>	<p><b>A.2: Students will describe the principles of aircraft design, performance and operating characteristics; and the regulations related to the maintenance of aircraft and associated systems.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be the final exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more on the specific questions.</li> </ol>	<p>Pending:</p> <p>Measured by Dr. Jonathan Velazquez during Spring 2019</p>	<p>NA</p>	<p>NA</p>
<p><b>AWSC 4600: Airline Management</b></p> <p>Aviation Management Students must demonstrate the ability to apply mathematics, science, and applied sciences to aviation related disciplines</p>	<p><b>A.3: Students will analyze and airline's financial data reports to calculate: operating ratio, Return on investment (ROI), profit margin and aircraft utilization among other information.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an exam.</li> <li>2. Embedded test quest questions / problems about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students must score 70% or more on these specific questions.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p>NA</p>	<p>NA</p>



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<p><b>AWSC 3160</b></p> <p><b>Commercial Pilot (Ground Portion)</b></p> <p>Flight students must demonstrate the ability to apply mathematics, science, and applied sciences to aviation-related disciplines.</p> <p>AABI Outcome A</p>	<p><b>A.3: Students must be able to predict the airplane's performance capability by using math, concepts and equations to solve for weight and balance problems.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be the second exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more on these specific questions.</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports, <b>75%</b> of students scored above 70% on these specific-test items.</p> <p>The group averaged 88%</p> <p>The student scores were:</p> <ol style="list-style-type: none"> <li>1. Valerie Claudio: 100%</li> <li>2. Reinaldo Marquez: 100%</li> <li>3. Cristina Santiago: 50%</li> <li>4. Roberto Torres: 100%</li> </ol> <p>Please see attached Black Board report on the second exam. The targeted questions were 24 and 25.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>
<p><b>AWSC 2020</b></p> <p><b>Aviation Fundamentals</b></p> <p>Aviation Management students must demonstrate the ability to analyze and interpret data.</p>	<p><b>B.1: Students will discuss the impact of meteorology and environmental issues on aviation operations by being able to analyze and correctly interpret weather data from Graphic Weather Sources and Printed Weather Reports and Forecasts.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an exam.</li> <li>2. Embedded test questions about the</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports only 25% of students scored above 70% on these specific-test items.</p> <p>See course instructor for sample tests and statistics.</p>	<p><b>Assessment goal was NOT met.</b></p> <p>It is worth mentioning that this is the first time the course had been delivered by this professor. In addition, the course was administrated as a hybrid course (where students were responsible for 50% of the content by themselves). Finally, even though, the course instructor opened a Discussion Board (to answer any last-minute questions before the exam) only two</p>



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	<p>specific topics will be inserted in the test.</p> <p>3. At least 70% of students will score 70% or more on the specific questions (19-24).</p>			<p>students took advantage of this Forum.</p> <p>The delivery of this course as a hybrid one is questionable at the early (freshman) stage of the student's academic careers. Having said that, there was a good mix of freshman, sophomore, junior, and even senior students enrolled in this course.</p> <p>I recommend returning this course to a regular mode (i.e., not WAB but WBA).</p>
<p><b>AWSC 3155</b></p> <p><b>Instrument Pilot (Ground portion)</b></p> <p>Flight students must demonstrate the ability to analyze and interpret data.</p> <p>AABI Outcome B</p>	<p><b>B.1: Students will discuss the impact of meteorology and environmental issues on aviation operations by being able to analyze and correctly interpret weather data from Graphic and Printed Weather Sources.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more on these specific questions (8-9 and 11-12).</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports 75% of students scored above 70% on these specific-test items.</p> <p>The group also averaged 75%</p> <p>The individual scores were as follows:</p> <ol style="list-style-type: none"> <li>1. Juan Diaz: 75%</li> <li>2. Roberto Martinez: 100%</li> <li>3. Jonathan Mendoza: 75%</li> <li>4. Richard Ventura: 50%</li> </ol> <p>See TK20 or Course Instructor for sample exams and test statistics.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>



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<p><b>AWSC 4600</b></p> <p><b>Airline Management</b></p> <p>Aviation Management Students must demonstrate the ability to analyze and interpret data</p> <p>AABI Outcome B</p>	<p><b>B.2: Students will demonstrate the ability to analyze and interpret an airline's financial data report</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an exam.</li> <li>2. A financial report extracted from an airline's annual report was used for students to analyze while answering embedded test questions.</li> <li>3. At least 70% of students must score 70% or more on these specific questions.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>
<p><b>AWSC 3155</b></p> <p><b>Instrument Pilot (Flight portion)</b></p> <p>Flight students must demonstrate the ability to analyze and interpret data.</p> <p>AABI Outcome B</p>	<p><b>B.2: Students must be able to examine and properly interpret the data contained in instrument approach charts and translate these instructions into actions and procedures.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tools used are a flight performance check using a rubric.</li> <li>2. The second stage check or End-of-Course (EOC) is used to evaluate the student's knowledge of Instrument Approach</li> </ol>	<p>Measured by Prof. Andres Mora during 2018-2109</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>



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	<p>Charts and the execution of this information during flight operations. A specially designed rubric measures the student's competence in both of these aspects.</p> <p>3. The student must be found acceptable in both to pass the stage check and therefore, demonstrate achievement in this outcome.</p>			
<p><b>AWSC 4310</b></p> <p><b>Human Factors in Aviation</b></p> <p>Students must demonstrate the ability to work effectively in multi-disciplinary and diverse teams.</p> <p>AABI Outcome C</p>	<p><b>C.1: Students will perform in collaborative learning by analyzing accident reports. Later they will deliver an oral presentation on the complete nature of the accident.</b></p> <ol style="list-style-type: none"> <li>1. A rubric will be used for peer evaluation of teamwork by students themselves.</li> <li>2. This rubric has a total score of 25 points.</li> <li>3. At least 70% of students must score 20 or more on the rubric.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	NA	NA





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<p><b>AWSC 4680</b></p> <p><b>Aviation Strategic Management</b></p> <p>Aviation Management Students must demonstrate the ability to work effectively in multi-disciplinary and diverse teams.</p> <p>AABI Outcome C</p>	<p><b>C.2: Students must be able to perform in collaborative learning by analyzing performance of an airline through a simulation program.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be a Peer Evaluation Report.</li> <li>2. The Peer Evaluation includes a score.</li> <li>3. 70% of students must score at least 70% on this teamwork evaluation.</li> </ol>	<p>Prof. Caroline Ocasio</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>See attached Peer Evaluations in TK20.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>
<p><b>AWSC 4384</b></p> <p><b>Training Techniques for Flight Crew (Crew Resource Management)</b></p> <p>Flight Students must demonstrate the ability to work effectively in multi-disciplinary and diverse teams.</p> <p>Outcome C</p>		<p>Measured by Prof. Andres Mora during Spring 2019</p>	<p>NA</p>	<p>NA</p>



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<p><b>AWSC 4100</b></p> <p><b>Career Development for Aerospace Professionals</b></p> <p>Students must demonstrate the ability to make professional and ethical decisions</p> <p>AABI Outcome D</p>	<p><b>D.1: Students must discriminate between ethical versus unethical practices and between professional and unprofessional behavior within the aviation industry.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more on these specific questions.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p>NA</p>	<p>NA</p>
<p><b>AWSC 4370</b></p> <p><b>Flight Instructor (ground portion)</b></p> <p>Flight students must demonstrate the ability to make professional and ethical decisions</p> <p>AABI Outcome D</p>	<p><b>D.2: Students must be able to evaluate a professional and ethical issue related to the practice of flight instruction and/or professional pilot.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an essay</li> <li>2. Essay will be evaluated using a rubric.</li> <li>3. 70% of students must score at least 70%</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>The average score was 88%</p> <p>Please see Course Instructor for sample essays and rubrics. The scores were as follows:</p> <ol style="list-style-type: none"> <li>1. Cristian Berrios: 92%</li> <li>2. Alejandro Estrella: 100%</li> <li>3. Juan Gonzalez: 76%</li> </ol>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>



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			4. Favio Medina: 100% 5. Ethan Melendez: 84% 6. Jerry Mercado: 72% 7. Ricardo Velazquez: 92%	
<b>AWSC 4680: Aviation Strategic Management</b>  Aviation Management Students must demonstrate the ability to make professional and ethical decisions.  AABI Outcome D	<b>D.2: Students must be able to determine whether or not actions could be considered ethical through using the concept of Corporate Governance in an exam's essay question.</b> <ol style="list-style-type: none"> <li>1. The assessment tool used will be exam 3.</li> <li>2. Essay test question about the specific topic will be inserted in the test.</li> <li>3. At least 70% of students must score 70% on this specific question.</li> </ol>	Prof. Caroline Ocasio  Spring 2021	After evaluating the reports 100% of students scored above 70%.  See attached sample questions and rubrics in TK20.	<b>Assessment goal was met</b>  No changes or further actions are required
<b>AWSC 2130</b>  <b>English Proficiency for Aviation Professionals</b>  Students must demonstrate the ability to communicate effectively, using both written and oral communication skills.	<b>E.1: Students must be able to demonstrate ICAO oral proficiency skills, to at least Level 4 (operational level), in pronunciation, structure, vocabulary, fluency, comprehension, and interaction.</b>	Prof. Carole Gelpi  Spring 2021	93% of students scored 4 or higher on each rubric value.  See School Dean for sample rubrics.	<b>Assessment goal was met</b>  No changes or further actions are required



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<p>AABI Outcome E</p>	<ol style="list-style-type: none"> <li>1. An ICAO rubric is used to evaluate the oral interview.</li> <li>2. The maximum score is 6 points for all interview components.</li> <li>3. At least, 70% of students must obtain a level/score of 4 points or higher on each final course interview criterion.</li> </ol>			
<p><b>AWSC 4310: Human Factors in Aviation</b></p> <p>Students must demonstrate the ability to communicate effectively, using both written and oral communication skills.</p> <p>AABI Outcome E</p>	<p><b>E.2: Students must be able to write an original essay on a current subject in Aviation Human Factors where he/she evaluates aviation safety and the impact of human factors on safety.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an essay,</li> <li>2. graded with a rubric.</li> <li>3. 70% of students must score 70% on this rubric.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>
<p><b>AWSC 4370</b></p> <p><b>Flight Instructor (ground portion)</b></p> <p>Flight students must demonstrate the ability to communicate effectively, using both written and oral communication skills.</p>	<p><b>E.3: Students must be able to create and present a preflight lesson on a selected pilot maneuver and/or aeronautical topic, from an instructional standpoint as it would be taught to a student.</b></p> <ol style="list-style-type: none"> <li>1. A special rubric will be used to evaluate the oral presentation and another</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>The average score was 89%</p> <p>Please see course instructor for sample</p>	<p style="text-align: center;"><b>Assessment goal was met</b></p> <p style="text-align: center;">No changes or further actions are required</p>



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<p>AABI Outcome E</p>	<p>rubric will be used to evaluate the student's ability to construct and write a lesson plan.</p> <ol style="list-style-type: none"> <li>Both rubrics contain specific set of criteria on (instructional communication) which will be evaluated by this rubric.</li> <li>70% of students must score 70%.</li> </ol>		<p>essays and rubrics. The scores were as follows:</p> <ol style="list-style-type: none"> <li>Cristian Berrios: 95%</li> <li>Alejandro Estrella: 85%</li> <li>Juan Gonzalez: 97%</li> <li>Favio Medina: 98%</li> <li>Ethan Melendez: 78%</li> <li>Jerry Mercado: 84%</li> <li>Ricardo Velazquez: 87%</li> </ol> <table border="1" data-bbox="1207 824 1512 1101"> <thead> <tr> <th>Student</th> <th>Oral</th> <th>Written</th> </tr> </thead> <tbody> <tr> <td>C.B.</td> <td>90</td> <td>100</td> </tr> <tr> <td>A.E.</td> <td>90</td> <td>80</td> </tr> <tr> <td>J.G.</td> <td>93</td> <td>100</td> </tr> <tr> <td><b>F.M.</b></td> <td>95</td> <td>100</td> </tr> <tr> <td><b>E.M.</b></td> <td>85</td> <td>70</td> </tr> <tr> <td><b>J.M.</b></td> <td>88</td> <td>80</td> </tr> <tr> <td>R.V.</td> <td>93</td> <td>80</td> </tr> </tbody> </table> <p><b>Bold</b> = available sample essays and rubrics.</p>	Student	Oral	Written	C.B.	90	100	A.E.	90	80	J.G.	93	100	<b>F.M.</b>	95	100	<b>E.M.</b>	85	70	<b>J.M.</b>	88	80	R.V.	93	80	
Student	Oral	Written																										
C.B.	90	100																										
A.E.	90	80																										
J.G.	93	100																										
<b>F.M.</b>	95	100																										
<b>E.M.</b>	85	70																										
<b>J.M.</b>	88	80																										
R.V.	93	80																										
<p><b>AWSC 4100</b></p> <p><b>Career Development for Aerospace Professionals</b></p> <p>Students must demonstrate the ability to engage in and recognize</p>	<p><b>F.1: Students must be able to demonstrate an awareness of the professional development required for each aviation specialty.</b></p> <ol style="list-style-type: none"> <li>The assessment tool used will be an exam.</li> <li>Embedded test questions about the</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p>NA</p>	<p>NA</p>																								



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<p>the need for life-long learning.</p> <p>AABI Outcome F</p>	<p>specific topics will be inserted in the test.</p> <p>3. At least 70% of students will score 70% or more on these specific questions.</p>			
<p><b>AWSC 4370</b></p> <p><b>Flight Instructor (Ground portion)</b></p> <p>Flight students must demonstrate the ability to engage in and recognize the need for life-long learning.</p> <p>AABI Outcome F</p>	<p><b>F.2: Students must be able to demonstrate the need for personal and professional enhancement by being able to write an Integrated Paper pointing out resources for professional development (including those for independent learning) and elucidating their importance.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an Integrated Paper,</li> <li>2. evaluated using a specialized rubric.</li> <li>3. At least 70% of students must score 70 percent.</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>The average score was 92%</p> <p>Please see course instructor for sample essays and rubrics. The scores were as follows:</p> <ol style="list-style-type: none"> <li>1. Cristian Berrios: 92%</li> <li>2. Alejandro Estrella: 100%</li> <li>3. Juan Gonzalez: 96%</li> <li>4. <b>Favio Medina:</b> 100%</li> <li>5. <b>Ethan Melendez:</b> 82%</li> <li>6. <b>Jerry Mercado:</b> 86%</li> <li>7. Ricardo Velazquez: 90%</li> </ol> <p><small><b>Bold</b> = available sample essays and rubrics</small></p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>



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Bayamón Campus  
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<p><b>AWSC 4680: Aviation Strategic Management</b></p> <p>Aviation Management Students must demonstrate the ability to engage in and recognize the need for life-long learning.</p> <p>AABI Outcome F</p>	<p><b>F.2: Students must be able to demonstrate the need for personal and professional enhancement by being able to write an integrated paper pointing out resources for professional development.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an integrated paper evaluated using a specialized rubric.</li> <li>2. At least 70% of students must score 70% percent.</li> </ol>	<p>Prof. Caroline Ocasio</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>See attached sample papers and rubrics in TK20.</p>	<p style="text-align: center;"><b>Assessment goal was met</b></p> <p style="text-align: center;">No changes or further actions are required</p>
<p><b>AWSC 3300</b></p> <p><b>Aviation Law</b></p> <p>Students must demonstrate the ability to assess contemporary issues.</p> <p>AABI Outcome G</p>	<p><b>G.1: Students must be able to evaluate agreements and/or laws affecting the aviation industry today.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used is a written project. A rubric measures the student's ability to research on a current law or agreement that affects the aviation industry today.</li> <li>2. After research, the student will explain the proposed changes to existing regulations or to the U.S. Code of Law.</li> <li>3. 70% of students must score 70% (7 or higher) on the rubric criterion.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>



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School of Aeronautics**

<p><b>AWSC 4310</b></p> <p><b>Human Factors in Aviation</b></p> <p>Students must demonstrate the ability to assess contemporary issues.</p> <p>AABI Outcome G</p>	<p><b>G.2: Students must be able to conduct research and write an original essay on the contemporary issues surrounding a human factors topic. The purpose of this essay is to allow students to analyze the current and future state of issues regarding aviation human factors.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool is an essay graded with a rubric.</li> <li>2. The rubric includes a criterion called: Analysis of human factors contemporary issues and impact on aviation today.</li> <li>3. Students must score at least 7 out of 10 points in this specific measure.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>
<p><b>AWSC 4370</b></p> <p><b>Flight Instructor (ground portion)</b></p> <p>Flight students must demonstrate the ability to assess contemporary issues.</p> <p>AABI Outcome G</p>	<p><b>G.3: Students must be able to research a topic affecting the flight instruction and/or professional pilot industry today.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an essay,</li> <li>2. Evaluated using a rubric.</li> <li>3. 70% of students must score at least 70%</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>The average score was 88%</p> <p>Please see course instructor for sample essays and rubrics. The scores were as follows:</p> <ol style="list-style-type: none"> <li>1. Cristian Berrios: 92%</li> </ol>	<p style="text-align: center;"><b>Assessment goal was met</b></p> <p style="text-align: center;">No changes or further actions are required</p>





**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

			<ol style="list-style-type: none"> <li>2. Alejandro Estrella: 100%</li> <li>3. Juan Gonzalez: 76%</li> <li>4. Favio Medina: 100%</li> <li>5. Ethan Melendez: 84%</li> <li>6. Jerry Mercado: 72%</li> <li>7. Ricardo Velazquez: 92%</li> </ol>	
<p><b>AWSC 3155</b></p> <p><b>Instrument Pilot (Flight portion)</b></p> <p>Flight students must demonstrate the ability to use the techniques, skills, and modern technology necessary for professional practice.</p> <p>AABI Outcome H</p>	<p><b>H.1: Students must be able to execute a fully planned IFR cross-country from departure to destination demonstrating use of navigational technology, cockpit resources, and technical flying skills for departure, enroute, and arrival procedures.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tools used are a performance check using a Checklist-style rubric.</li> <li>2. The third stage (performance) check is used to evaluate the student in IFR cross-country procedures. The checklist contains eight (8) execution aspects (criteria) which students must demonstrate in</li> </ol>	<p>Measured by Prof. Andres Mora during 2018-2019</p>	<p>NA</p>	<p>NA</p>



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

	<p>order to successfully pass the stage check, and therefore, evidence achievement of the outcome.</p> <p>3. The student must demonstrate all 8 specific skills, concepts, or processes.</p>			
<p><b>AWSC 4100</b></p> <p><b>Career Development for Aerospace Professionals</b></p> <p>Students must demonstrate the ability to use the techniques, skills, and modern technology necessary for professional practice.</p> <p>AABI Outcome H</p>	<p><b>H.1. Students will demonstrate the necessary technical knowledge, verbal communication, and soft skills to successfully pass an industry interview</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool is an interview graded with a rubric.</li> <li>2. The maximum score is 4 points for all interview components.</li> <li>3. At least, 70% of students must obtain a score of 3 points or higher on each applicable interview criterion.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	NA	NA



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

<p><b>AWSC 3160</b></p> <p><b>Commercial Pilot (Flight Portion)</b></p> <p>Flight students must demonstrate the ability to use the techniques, skills, and modern technology necessary for professional practice.</p> <p>AABI Outcome H</p>	<p><b>H.2: Commercial students will demonstrate a broad understanding of the role and skills of the commercial pilot.</b></p> <p>At least 70% of students pass the FAA practical test, during their first attempt. The practical test is administered by FAA representatives or designated pilot examiners independent of IAUPR.</p>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p>NA</p>	<p>NA</p>
<p><b>AWSC 4680: Aviation Strategic Management</b></p> <p>Aviation Management Students must demonstrate the ability to use techniques, skills and modern technology necessary for professional practice.</p> <p>AABI Outcome H</p>	<p><b>H.2: Students used an e-simulation called “Airline” to demonstrate the ability to run an airline business.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool is a written report using a specialized rubric.</li> <li>2. At least 70% of students must score 70% or more on the written report.</li> </ol>	<p>Prof. Caroline Ocasio</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>See attached sample reports and rubrics in TK20.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

<p><b>AWSC 4370</b></p> <p><b>Flight Instructor (Flight Portion)</b></p> <p>Flight students must demonstrate the ability to use the techniques, skills, and modern technology necessary for professional practice.</p> <p>AABI Outcome H</p>	<p><b>H.3: Flight instructor students will demonstrate a broad understanding of the role and skills of the flight instructor pilot.</b></p> <p>At least 70% of students pass the FAA practical test, during their first attempt. The practical test is administered by FAA representatives or designated pilot examiners independent of IAUPR.</p>	<p>Capt. Alex Ortiz</p> <p>Academic Year 2020-2021</p>	<p>7 out of 7 students (100%) were able to pass their Certified Flight Instructor – Initial check ride in their first attempt.</p> <p>See Chief Ortiz or Dr. Jonathan Velazquez for flight test summary report.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>
<p><b>AWSC 2000</b></p> <p><b>Introduction to Aeronautics and Space</b></p> <p>Students must demonstrate the ability to assess the national and international aviation environment.</p> <p>AABI Outcome I</p>	<p><b>I.1: Students must be able to discriminate between acts and regulations affecting the aviation industry domestically and internationally.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tools used will be an Exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the tests.</li> <li>3. At least 70% of students will score 70% or more on the specific questions.</li> </ol>	<p>Prof. Caroline Ocasio</p> <p>Spring 2021</p>	<p><b>Domestic:</b> Questions 1-5. After test evaluation 100% of students scored above 70%.</p> <p><b>International:</b> Questions 6-10: After test evaluation 100% of students scored above 70%</p> <p>See TK20 for sample tests and test question statistics.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

<p><b>AWSC 2020</b></p> <p><b>Aviation Fundamentals</b></p> <p>Students must demonstrate the ability to analyze and interpret data.</p>	<p><b>I.2: Students must explain the integration of airports, airspace, and air traffic control in managing the National Airspace System</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the tests.</li> <li>3. At least 70% of students will score 70% or more on the test itself (These targeted questions were: 1-4, 24-29, 32-39, and 41).</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the reports only 26% of students scored above 70% on these specific-test items.</p> <p>See course instructor for sample tests and statistics form Black Board.</p>	<p><b>Assessment goal was NOT met.</b></p> <p>It is worth mentioning that this is the first time the course had been delivered by this professor. In addition, the course was administrated as a hybrid course (where students were responsible for 50% of the content by themselves).</p> <p>The delivery of this course as a hybrid one is questionable at the early (freshman) stage of the student's academic careers. Having said that, there was a good mix of freshman, sophomore, junior, and even senior students enrolled in this course.</p> <p>I recommend returning this course to a regular mode (i.e., not WAB but WBA).</p>
<p><b>AWSC 2115</b></p> <p><b>Private Pilot Theory</b></p> <p>Flight students must demonstrate the ability to assess the national and international aviation environment.</p> <p>AABI Outcome I</p>	<p><b>I.2: Students must explain the integration of airports, airspace, and air traffic control in managing the National Airspace System.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an exam.</li> <li>2. At least 70% of students will score 70% or more on the specific questions.</li> </ol>	<p>Measured by Dr. Jonathan Velázquez</p> <p>Spring 2019</p>	<p>NA</p>	<p>NA</p>



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

<p><b>AWSC 3600</b></p> <p><b>Aviation Safety and Security</b></p> <p>Students must demonstrate the ability to assess the national and international aviation environment.</p> <p>AABI Outcome I</p>	<p><b>I.3: Flight students must be able to explain the international accident investigation process including the role of the International Civil Aviation Organization and other regional and national authorities.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an exam.</li> <li>2. An embedded short essay question will be inserted in the exam regarding this topic.</li> <li>3. At least 70% of students will score 70% or more on this specific question.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>
<p><b>PHYS 3500</b></p> <p><b>Aviation Physics</b></p> <p>Students must demonstrate the ability to apply pertinent knowledge in identifying and solving problems.</p> <p>AABI Outcome J</p>	<p><b>J.1: Students must be able to identify, execute, solve, and evaluate concepts and equations related to the solution of problems within aviation physics.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool used will be an exam.</li> <li>2. Embedded test questions about the specific topics will be inserted in the test.</li> <li>3. At least 70% of students will score 70% or more on these specific questions.</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	<p style="text-align: center;">NA</p>	<p style="text-align: center;">NA</p>



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

<p><b>AWSC 3600</b></p> <p><b>Aviation Safety and Security</b></p> <p>Students must demonstrate the ability to apply pertinent knowledge in identifying and solving problems.</p> <p>AABI Outcome J</p>	<p><b>J.2 Students must be able to identify the hazards and risks associated with a safety scenario and propose methods to reduce the levels of risk to as low as reasonably practical (ALARP).</b> Once the students identify the related hazards, they will determine the likelihood and severity of the risks associated with the situation. In the end, the students will propose methods to reduce the risks to levels as low as reasonably practical (ALARP).</p> <ol style="list-style-type: none"> <li>1. The assessment tool will be a written report of a case study.</li> <li>2. This report has a maximum value of 10 points.</li> <li>3. 70% of students must score 7 points in the written report.</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Fall 2020</p>	<p>After evaluating all students who attempted the exercise, and excluding withdrawals and incompletes, 22 out of 34 of them were able to score at least 14 points. This represents 65%.</p> <p>The class average was 68%</p> <p>Their individual scores are as follows;</p> <p>Student 1 NAR: 20          Student 2 JAR: 10          Student 3 VBC: 15          Student 4 BCN: 16          Student 5 MCN: 14          Student 6 JCL: 15          Student 7 JDN: 15          Student 8 JDM: 14          Student 9 CFM: 9          Student 10 EFM: 9          Student 11 NGM: 14          Student 12 KJC: 10          Student 13 NMR: 15          Student 14 JMH: 15          Student 15 AMR: 15          Student 16 CNC: 5          Student 17 JOR: 14          Student 18 ROA: 10          Student 19 KOR: 20</p>	<p><b>Assessment Goal was NOT met</b></p> <p>There are a couple of reasons that explain why the goal was not met:</p> <p>(1) The University decided (a week prior to commencing) that it would reduce the academic calendar by one week. In other words, we started a week later than usual and were; thus, cut short one week. This took time away from the course that would have been used to explain SRM better. The students were encouraged to watch two videos explaining the process. However, many did so while others (a few) did not. Another reason: (2) We are still living under the pandemic which has shown to equate to lower academic grades for students across the board. Finally, (3) this was the first time the course was being delivered as WAB (hybrid). Under this setting students are responsible for 50% of the content under independent studying. Having said that, I'd place more</p>
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**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

			Student 20 YOS: 19 Student 21 KQC: 20 Student 22 HRP: 11 Student 23 MRB: 20 Student 24 CRC: 15 Student 25 HRR: 17 Student 27 JRS: 10 Student 28 DRP: 14 Student 29 KSL: 9 Student 30 KSO: 13 Student 31 ASS: 14 Student 32 KTP: 7 Student 33 STT: 19 Student 34 JVN: 19 See TK20 for sample exercises and rubrics.	emphasis on reasons 1 and 2.  This activity will be re-evaluated in a cycle where (1) the academic calendar is not reduced and (2) the semester is not impacted by the coronavirus disease (perhaps also not under a virtual setting).
<b>AWSC 4370</b>  <b>Flight Instructor (Flight portion)</b> Flight students must demonstrate the ability to apply pertinent knowledge in identifying and solving problems.  AABI Outcome J	<b>J3: Students must be able to assess and correctly perform so as to identify and solve emergencies that include but are not limited to: loss of communications, engine fire, and systems/equipment malfunctions.</b> <ol style="list-style-type: none"> <li>1. The assessment tool to be used is a specially developed rubric utilized during the End-of-Course or final performance check of CFI candidates.</li> <li>2. Students must be found acceptable and commendable on all criteria.</li> </ol>	Pending:  To be measured within the 2018-2023 assessment cycle	NA	NA





**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

	3. After each performance check is satisfactorily completed the data will be collected and the student will be recommended for certification (practical test).			
<p><b>AWSC 4000: Airport Development and Operations</b></p> <p>Students must be able to demonstrate the ability to apply knowledge of business sustainability to aviation issues.</p> <p>AABI Outcome K</p>	<p><b>K.1: Students must be able to evaluate different methods available to increase the airport capacity and reduce possible delays associated with the operations.</b> Based on a given scenario, the student will identify possible areas of conflicts in terms of the safe and efficient flow of aircraft in and out of the airport. The student will analyze different approaches to alleviate or eliminate the situation. Finally, the student will design a strategy to implement it as the action plan to follow.</p> <ol style="list-style-type: none"> <li>1. The assessment tool will be a written and oral project corrected with a rubric.</li> <li>2. The rubric is especially designed to evaluate the students on a defined set of criteria.</li> <li>3. 70% of students will score 70% on this rubric</li> </ol>	<p>Pending:</p> <p>To be measured within the 2018-2023 assessment cycle</p>	NA	NA



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

<p><b>AWSC 4204:</b></p> <p><b>Air Carrier Operations</b></p> <p>Flight students must be able to demonstrate the ability to apply knowledge of business sustainability to aviation issues.</p> <p>AABI Outcome K</p>	<p><b>K.2: Students must be able to conduct research on airline strategies to offer innovative solutions towards sustainable air carrier operations in terms of development, economy, and/or social standpoints.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be a written project corrected with a rubric.</li> <li>2. 70% percent of the class roster must score 7 or more on the specific rubric criterion measuring sustainability in aviation.</li> </ol>	<p>Dr. Jonathan Velázquez</p> <p>Spring 2021</p>	<p>After evaluating the assessment tool 100% of students (all 6) were able to score 7 or more on air carrier sustainability.</p> <p>The average score for the entire course was 8.2</p> <p>Their individual scores was as follows:</p> <ol style="list-style-type: none"> <li>1. Alejandro Estrella: 9</li> <li>2. Ray Gonzalez: 10</li> <li>3. Jerry Mercado: 7</li> <li>4. Ricardo Montalvo: 7</li> <li>5. Jose Quintana: 7</li> <li>6. Gabriel Vazquez: 7</li> </ol> <p><small>See course instructor for sample essays and rubrics (found in Black Board)</small></p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>
<p><b>AWSC 4680</b></p> <p><b>Aviation Strategic Management</b></p> <p>Aviation Management Students must demonstrate the ability to engage in and recognize the need for life-long learning.</p> <p>AABI Outcome K</p>	<p><b>K.2: Students must be able to apply knowledge of business sustainability to aviation issues by analyzing the company and writing a paper identifying the strategies used for sustainability. This was a team project.</b></p> <ol style="list-style-type: none"> <li>1. The assessment tool will be an analysis paper evaluated using a specialized rubric.</li> <li>2. At least 70% of students must score 70% percent.</li> </ol>	<p>Prof. Caroline Ocasio</p> <p>Spring 2021</p>	<p>After evaluating the reports 100% of students scored above 70%.</p> <p>See attached sample reports and rubrics in TK20.</p>	<p><b>Assessment goal was met</b></p> <p>No changes or further actions are required</p>



**Inter American University of Puerto Rico  
Bayamón Campus  
School of Aeronautics**

Additional notes:

This report includes the assessment during the COVID-19 pandemic. A few observations can be made:

- In the majority of cases, scores plunged during evaluations through the pandemic semester.
- As shown with the results of a few courses, WAB (or hybrid courses) do not seem to favor freshman students since they are responsible for 50% of the course on their own. It is not certain today's student can take charge (be autonomous) much like before, that is, as opposed to earlier generations or even before the pandemic.
- On a positive note, the administration of exams and assessments using the Black Board LMS has provided professors with quick statistical results and analyses in a more efficient way. Some of that information and sample tests was uploaded in TK20.

The following table summarizes achievements in the AABI outcomes.

Student Learning Outcomes 2020-2021 (152)										
a	b	c	d	e	f	g	h	i	j	k
0/1	0/1	1/1	1/1	1/1	1/1	Not measured	1/1	1/2	0/1	1/1

Student Learning Outcomes 2020-2021 (155)										
a	b	c	d	e	f	g	h	i	j	k
1/1	1/1	Not measured	1/1	2/2	1/1	1/1	1/1	1/1	0/1	1/1

Dr. Jonathan Velázquez, Ph.D., ATP, CFI  
Dean – School of Aeronautics  
Assessment Coordinator  
787-279-1912 ext. 2400