ELB 3

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| **ELB**  **3** | **Course Description:** The AVAS 101 course is designed to help students practice their core language skills while learning about Aviation and Aerospace in the United States. As such, it covers a variety of topics including: aviation history, the principles of flight, primary and secondary control surfaces, the parts of a small plane including the engine, fuel system, electrical system, and flight instrumentation. It also focuses on airports with an emphasis on the basic layout as well as runway and taxiway signs and markings. It then touches on basic air traffic control with the pilot’s alphabet, and covers some common causes of aircraft accidents. The course ends with a brief history of space travel and the principles behind rocket flight. This class meets 4 times a week for 50 minutes. In summer, this class meets 4 times a week, twice for 60 minutes and twice for 75 minutes. | | |
| **Course Goal:** Students completing ELB 3 should be able to apply the language skills from their core classes to a wide range of aviation-related content | | |
|  | **Course Objectives**  *Through course content and activities, students will be taught how to:* | **Student Learning Outcomes**  **(SLOs)**  *Based on the stated general objectives, students will be able to:* | **Assessing SLOs**  *These SLOs are observed and measured primarily through:* |
| **1** | *Comprehend spoken details and concepts in the area of aviation at an intermediate level.* | 1a. Take notes on various aviation-related topics at an intermediate level.  1a. Explain the events leading to, and the causes, of aircraft accidents based on information from brief videos.  1b. Utilize the information in their notes to complete graded coursework on topics to include aviation history, the four forces of flight, aircraft control surfaces, engines, the fuel system, electrical system, flight instruments, the pilot’s alphabet, airport signs & markings, causes of aircraft accidents, and rockets.  1c. Utilize the information in their notes to pass content-based quizzes on the topics above. | Student presentations  Quizzes/Exams  Graded classwork  Graded homework |
| **2** | *Utilize speaking skills to practice presenting information on various aviation-related topics at an intermediate level* | 2a. Give a brief lecture on an aspect of aviation history based on information learned from class lessons and assignments  2b. Employ an electronic visual aid such as PowerPoint to give an organized presentation explaining the events and cause of an aircraft accident  2c. Demonstrate how the four forces of flight act upon the design of an airplane.  2d. Demonstrate how the control surfaces affect the movement of an aircraft.  2e. Spell various terms utilizing the pilot’s alphabet. | Student presentations  Quizzes/Exams  Graded classwork  Graded homework |
| **3** | *Comprehend written details and concepts in the area of aviation at an intermediate level.* | 3a. Comprehend written details and concepts in the areas of aviation history, the four forces of flight, aircraft control surfaces, engines, the fuel system, electrical system, flight instruments, the pilot’s alphabet, airport signs & markings, causes of aircraft accidents, and rockets at an intermediate level.  3b. Apply their understanding of aircraft engines, the fuel system, and electrical system to diagnose and solve problems in aircraft maintenance.  3c. Apply their understanding of airport signs & markings to complete a simulated taxi, take off, and landing.  3d. Apply their understanding of the principles behind rocket flight to build a paper rocket capable of being launched. | Student presentations  Quizzes/Exams  Graded classwork  Graded homework |
| **4** | *explain concepts in aviation in a written format at an intermediate level* | 4a. Explain concepts in the areas of the four forces of flight, aircraft control surfaces, engines, the fuel system, the electrical system, flight instruments, and the events leading to a series of aircraft accidents as well as the overall causes in a written format in coursework at an intermediate level.  4b. Explain concepts in aviation in a written format on exams/quizzes at an intermediate level.  4c. Employ correct spelling of key terms in aviation. | Student presentations  Quizzes/Exams  Graded classwork  Graded homework |

**Course Description:** A description of the goals, methods, and timelines for a course.

**Course Goal:** The overall intended outcome or target for the course. The goal guides the development of meaningful course objectives and informs students and teachers of the purpose of the course.

**Course Objective: A** specific curricular element taught through content and activities. The course objectives guide instruction and lesson planning in order to provide a learning experience for all students, and, in aggregate, address the course goals.

**Student Learning Outcome:** A description of what the student will know or be able to do with the language as a result of the course of instruction. A student learning outcome is written in terms of observable and measurable language skills. Along with course objectives, student learning outcomes provide the foundation of assessment by implying what will be assessed and appropriate methods of assessment.