

## Master Course Syllabus Outline

Department: Engineering Technology

Course Prefix/Number: ASCI 4023

Official Course Title: Advanced Systems

Master Syllabus Approved by Department on: 04 / 21 / 05  
Month date year

- I. Catalog Description : This course is designed to prepare the Commercial Pilot for the Flight Engineer written tests. Upon completion, the student should be qualified to pass the Federal Aviation Administration Flight Engineer Basic and Turbo-Jet written exam. A thorough study of aerodynamics, federal aviation regulations, weight and balance and the Boeing 727 systems will be covered
- II. Prerequisites: Commercial Pilot Certificate or instructor approval.
- III. Expanded Course Description: Advanced Aircraft Systems explores an understanding and comprehension of modern major systems in turbine-powered aircraft. This course is designed to prepare the commercial pilot for the application and operation of advanced aircraft systems that are used by aircraft utilized in air carrier operations. The course will require the student's maximum attention and attendance in class. Additionally, aviation majors should seek knowledge in this area because the complex systems and ideas are used on a large number of Transport category Turbo-jet aircraft.
- IV. Intended Student Learning Outcomes: Upon completion of this course, the student will be able to:
  - A. Obtain the necessary knowledge required by Federal Aviation Regulations for the Flight Engineer Basic and Turbo-jet Written Test, as this will adequately cover advanced aircraft systems.
  - B. Be familiar with the complex systems involved in large Turbo-jets in the Transport Category.
- V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus:
  - a) Course Requirements: The course will be considered successfully completed when the student has demonstrated through oral and written examinations that they have the necessary knowledge to pass the Flight Engineer written examinations.
  - b) Required Text(s)
  - c) Bibliography
- VI. Academic Honesty: Cheating, plagiarism (submitting another person's materials or ideas as one's own), or doing work for another person who will receive academic credit are all-impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments,

reports, or term papers, or the presentation of unacknowledged material as if it were the student's own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

- VII. **Students With Disabilities Policy:** It is the policy of Tarleton State University to comply with the Americans with Disabilities Act (ADA) and other federal, state, and local laws relative to the provision of disability services. Students with disabilities attending Tarleton State University may contact the Office of Disability Services at (254) 968-9478 to request appropriate accommodation. Furthermore, formal accommodation requests cannot be made until the student has been officially admitted to Tarleton State University.

Department Head Signature/Date:

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Signature

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Date