

**Texas A&M University - Central Texas  
AVSC 3301-110 AIR CARRIER OPERATIONS**

**INSTRUCTOR AND CONTACT INFORMATION**

**Instructor:** Mr. Andy Dobis  
**Office:** Online  
**Phone:** 602-999-8384 (because of my job I could be on any time zone from NY to Hawaii)  
**Email:** andy.dobis@tamuct.edu

**Office Hours:**

*Due to my airline schedule, I do not have set office hours. Please E-mail me first and we can set up a phone conference if the issue cannot be handled via E-mail (which 99.9% of the times we can fix the issue over E-mail)*

**Mode of instruction and course access:**

This course is a 100% online course and uses TAMUCT Canvas LMS at <https://tamuct.instructure.com> for delivery.

**Student-instructor interaction:**

My primary concern is the quality of your education with regards to our class. I check my TAMUCT E-mails at least once every 48 hours, usually more often, it just depends on my schedule. As aspiring airline pilots, living and working with unpredictable schedules is a way of life that you (and your family) will have to become accustomed to. Just because we have unpredictable schedules doesn't mean we lose contact with the world. If you have an issue, E-mail me, if the issue is urgent, text me. If the issue needs my immediate attention, and the hour is reasonable, call me!

**UNILERT:**

Emergency Warning System for Texas A&M University – Central Texas

UNILERT is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in UNILERT through their myCT email account.

Connect at [Unilert](https://www.tamuct.edu/departments/security/unilert.php) [https://www.tamuct.edu/departments/security/unilert.php] to change where you receive your alerts or to opt out. By staying enrolled in UNILERT, university officials can quickly pass on safety-related information, regardless of your location.

**COURSE INFORMATION**

**Course Overview and description:**

This course is designed to expand upon the Federal Aviation Regulations relating to various specialized facets of the aviation industry, including airline operations, aircraft certification, airworthiness standards and airport operations. Prerequisite: Commercial Pilot Certificate or instructor approval.

## **Course Objective:**

### **Student Learning Outcomes:**

- 1) Apply mathematics, science, and applied science skills to accurately solve ATP practice test questions with a minimum 80% correct
- 2) Analyze and interpret ATP practice test data provided to answer with minimum of 80% correct
- 3) Recognize the need to uphold the moral and high character standards established by the FAA for all pilots
- 4) Implement in writing a personal lifelong learning plan and preparation for compliance with FAA moral standards, continued compliance with FAA physical fitness standards, and regularly reviewing FAA advisory circulars (ACs) specific to pilots
- 5) List FAA requirements for Airline Transport Pilot (ATP) certificate and describe the process to attain ATP certification

### **Competency Goals Statements (certification or standards):**

#### **Required Reading and Textbook(s):**

Airline Transport Pilot Test Prep, 2017 Edition  
- ASA Test Prep Board  
ISBN 9781619543591

APA 6<sup>th</sup> Edition

## **COURSE REQUIREMENTS**

### **Course Grading:**

There are four components of this course that are graded:

- |                           |           |
|---------------------------|-----------|
| 1) Discussion Boards      | 60 points |
| 2) Lifelong Learning Plan | 10 points |
| 3) Midterm                | 10 points |
| 4) Final                  | 20 points |

For the sixteen weeks this class meets, there are 20 Discussion Board topics you will post to. This represents the backbone of the class and your interaction with your instructor and fellow classmates. Each Discussion Board is worth 3 points. Since there are 20 Discussion Boards, you can see that poor participation every week will result in a failing grade.

A = 91-100  
B = 81-90  
C = 71-80  
D = 61-79  
F = 0 - 60

### **Posting of Grades**

- All student grades will be posted on the Canvas Grade book where you can monitor your status.

*Students can expect grades to be posted to Canvas within 7 days of an assignment being turned in.*

## **COURSE OUTLINE**

### **WEEK 1**

**TOPIC(S):** CRM, SMS, FEM

**STUDENT LEARNING OUTCOME:** #3

**ASSIGNMENT(S):**

Discussion Board introductions

### **WEEK 2**

**TOPIC(S):** Professionalism, NTSB accident review

**STUDENT LEARNING OUTCOME:** #3

**ASSIGNMENT(S):**

Discussion Board #1: Pinnacle 3701

Discussion Board #2: Airline Operations Current Event

### **WEEK 3**

**TOPIC(S):** The Federal Aviation Administrations and Pilot Certification

**STUDENT LEARNING OUTCOME:** #1, #2, #3, #5

**ASSIGNMENT(S):**

Discussion Board: Airline Operations Current Event

ATP Test Prep Book, read and complete CH. 1, pages 1-3 through 1-35.

### **WEEK 4**

**TOPIC(S):** FAA Regulations, The National Transportation Safety Board, ASRS, ASAP

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board: Airline Interview Prep question

ATP Test Prep Book, read and complete CH. 1, pages 1-36 through 1-68

### **WEEK 5**

**TOPIC(S):** Airlines in the United States

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board: Airline review

ATP Test Prep Book, read and complete CH. 1, pages 1-69 through 1-92

### **WEEK 6**

**TOPIC(S):** Equipment, navigation and facilities

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board #1: Airline Operations current event

Discussion Board #2: YouTube video link to a modern day “glass cockpit” Primary Flight Display

ATP Test Prep Book, read and complete CH. 2, pages 2-1 through 2-29

### **WEEK 7**

**TOPIC(S):** Navigation, airport and approach lighting systems, runway incursions

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board #1: two-page APA formatted discussion post on a runway incursion near-miss or accident

ATP Test Prep Book, read and complete CH. 2, pages 2-29 to 2-54.

### **WEEK 8**

**TOPIC(S):** Aerodynamics

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board #1: Aerodynamics in airline operations

ATP Test Prep Book, review CH 1,2, and 3 for your midterm next week.

### **WEEK 9**

**TOPIC(S):** Mid-term exam and turbine engine performance

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board: How does engine technology drive aviation advancements

ATP Test Prep Book, read and complete CH. 4, pages 4-1 through 4-24

## **WEEK 10**

**TOPIC(S):** Lifelong learning plan and FAA Advisor Circulars

**STUDENT LEARNING OUTCOME:** #1, #2, #4

**ASSIGNMENT(S):**

Discussion Board: Lifelong learning plan (begin work, not due until Week 15)

ATP Test Prep Book, read and complete CH. 4, pages 4-25 through 4-58

## **WEEK 11**

**TOPIC(S):** Efficient, effective, safe and legal airline operations

**STUDENT LEARNING OUTCOME:** #1, #2, #3

**ASSIGNMENT(S):**

Discussion Board #1: Airline operations efficiencies

Discussion Board #2: Multi-media link to aircraft weight and balance mishap

ATP Test Prep Book, read and complete CH. 4, pages 4-59 to end of CH. 4

## **WEEK 12**

**TOPIC(S):** Weight and balance

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board: Airline operations current events

ATP Test Prep Book, read and complete CH. 5 (except helicopter operations)

## **WEEK 13**

**TOPIC(S):** Flight Operations, National Airspace System, Instrument approaches

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board #1: Find the closest airport to you, pick three NOTAMS, list the NOTAMS and explain the NOTAM and why you think it is listed as a NOTAM.

Discussion Board #2: At the same airport you chose for the previous Discussion Board, chose one instrument approach. Insert the Approach Chart into your post (so we can view the chart).

Brief the approach in your post in a written paragraph.

ATP Test Prep Book: CH 6 read and complete pages 6-1 to 6-37

## **WEEK 14**

**TOPIC(S):** Communications, emergencies and flight physiology

**STUDENT LEARNING OUTCOME:** #1, #2

**ASSIGNMENT(S):**

Discussion Board #1: Post your research on an airline emergency that occurred on landing.  
Discussion Board #2: Post an example of a flight physiology issue that might affect an airline passenger on board an en-route flight.

ATP Test Prep Book: CH 6 read and complete pages 6-38 to end of CH 6. CH 7 read and complete entire chapter.

\*Reminder – Lifelong learning plan is due next week.

**WEEK 15**

**TOPIC(S):** Meteorology and Weather Services

**STUDENT LEARNING OUTCOME:** #1, #2, #4

**ASSIGNMENT(S):**

Discussion Board #1: Post a recap of an airline operation that was affected by a weather event. Explain if the event was handled correctly and if there were any 'lessons learned'.

ATP Test Prep Book: CH 8 read and complete entire chapter.

Review Chapters 1-8 for Final Exam next week.

Lifelong Learning Plan: E-mail your Plan to your instructor per the instructions in Week 10.

**WEEK 16**

**TOPIC(S):** Semester wrap-up and Final Exam

**STUDENT LEARNING OUTCOME:** #1, #2, #3, #4, #5

**ASSIGNMENT(S):**

Discussion Board #1: Airline marketing video link and post  
Final Exam

**INSTRUCTOR POLICIES**

If you need extra time completing an assignment due to extraordinary circumstances, please contact your instructor prior to the due date to arrange for an alternate due date. Late assignments without an approved excuse, will be accepted up to one week past the due date for a maximum score of 50%. Assignments turned in afterwards will not be scored.

Plagiarism will result in a failing grade.

**Copyright Notice.**

Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas' Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct.

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## TECHNOLOGY REQUIREMENTS AND SUPPORT

Online courses require that you have a reliable internet connection. All of your coursework and exams will be assigned and submitted in an online environment.

To successfully complete an online course, you must have access to these minimum technology tools:

- Reliable Internet connection
- Desktop or Laptop computer with 2Gb RAM and 60Gb Hard drive space (4Gb RAM, 400Gb Hard drive is preferred)
- Windows Vista, 7, 8, or 8.1, or Mac OSX 10.7-10.9
- Internet Explorer 9 or 10, Firefox 4 or higher, Chrome 19 or higher, or Safari 4.0 (Macs only)
- Text Editor - MS Word, LibreOffice or OpenOffice
- Audio/Video Player
- Course-Recommended Plug-ins
- Course-Recommended Software

The above listing is for minimum requirements. You may check your computer's compatibility with Blackboard on the Blackboard login page. Your browser must have JavaScript enabled for you to access your courses properly. In addition, Blackboard will display popups with information, so popup blockers may need to be disabled. Some courses will require that you purchase additional software related to the course and your field of study.

This course will use the TAMUCT Instructure Canvas learning management system.

Logon to TAMUCT Canvas [<https://tamuct.instructure.com>]

Username: Your MyCT username

(xx123 or everything before the "@" in your MyCT e-mail address)

Password: Your MyCT password

### **Technology Support.**

For technology issues, students should contact Help Desk Central.

24 hours a day, 7 days a week:

Email: [helpdesk@tamu.edu](mailto:helpdesk@tamu.edu)

Phone: (254) 519-5466

[Web Chat](http://hdc.tamu.edu): <http://hdc.tamu.edu>

*When calling for support please let your support technician know you are a TAMUCT student.*

For issues related to course content and requirements, contact your instructor.

## **COURSE AND UNIVERSITY RESOURCES, PROCEDURES, AND POLICIES**

### **Drop Policy.**

If you discover that you need to drop this class, you must complete a Drop Request Form, found through the Registrar's web page:

<https://www.tamuct.edu/departments/business-office/droppolicy.php>

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the University Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

### **Academic Integrity.**

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

### **Academic Accommodations.**

At Texas A&M-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier free education. The Department of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the University's programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Department of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.

For more information please visit our Access & Inclusion webpage:



<http://www.tamuct.edu/departments/access-inclusion>

TAMUCT supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. For more information, please visit <https://www.tamuct.departments/index.php>. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these requirements and guidelines, please visit: <http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf>

### **Tutoring.**

Tutoring is available to all TAMUCT students, both on-campus and online. On-campus subjects tutored include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or any other question, contact Academic Support Programs at 254-519-5796, or by emailing Kim Wood at [k.wood@tamuct.edu](mailto:k.wood@tamuct.edu).

Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables TAMUCT students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in over forty subject areas. Access Tutor.com through Canvas.

### **The University Writing Center.**

Located in 416 Warrior Hall, the University Writing Center (UWC) at Texas A&M University – Central Texas is a free workspace open to all TAMUCT students from 10am-4pm Monday-Thursday during the Fall semester (August 28, 2017 to December 15, 2017). Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available). Tutors are prepared to help writers of all levels and abilities at any stage of the writing process.

While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the University Writing Center is here to help!

If you have any questions about the University Writing Center, please do not hesitate to contact Dr. Bruce Bowles Jr. at [bruce.bowles@tamuct.edu](mailto:bruce.bowles@tamuct.edu).

**University Library.**

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 72,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at TAMUCT are available through our website to help students navigate these resources. On-campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available twenty-four hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the TAMUCT main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our homepage: <https://tamuct.libguides.com/>