

## **Syllabus for AVM-5010**

# **AVIATION SAFETY AND SECURITY PROGRAMS MANAGEMENT**

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## **COURSE DESCRIPTION**

This course examines programs employed by air carriers and airport operators in operating and maintaining various safety and security services. Special emphasis is on the Safety Management System (SMS) as well as the federal guidelines and their applications at commercial service airports. This course will build on subjects learned in AVF-303: Aviation Safety Management. Additional topics include history and evolution of SMS, components of SMS, safety regulations, and aviation security programs.

## **COURSE TOPICS**

- History and evolution of SMS
- Safety policy
- Safety risk management
- Safety assurance
- Safety promotion
- Managing SMS
- Evaluating the effectiveness of SMS
- Aviation security programs

## **COURSE OBJECTIVES**

After completing this course, students should be able to:

- CO 1** Analyze contemporary safety issues in aviation.
- CO 2** Use risk management tools to minimize hazards in aviation organizations.
- CO 3** Develop actionable expertise in safety management.
- CO 4** Implement an SMS plan in an aviation organization.
- CO 5** Evaluate the effectiveness of an SMS implemented in an aviation organization.

- CO 6** Integrate aviation industry regulations into an SMS.
- CO 7** Compare the goals of aviation safety and security.
- CO 8** Implement federal airline security regulations and standards.

## COURSE MATERIALS

You will need the following materials to complete your coursework. Some course materials may be free, open source, or available from other providers. You can access free or open-source materials by clicking the links provided below or in the module details documents. To purchase course materials, please visit the [University's textbook supplier](#).

### Required Textbook

- Stolzer, A. J., & Goglia, J. J. (2016). *Safety management systems in aviation* (2nd ed.). New York, NY: Routledge.  
**ISBN: 978-1472431783**

### Additional Learning Resources

- International Civil Aviation Organization. (2009, June 5). [ICAO Safety Management Systems \(SMS\) course](#).

## COURSE STRUCTURE

**Aviation Safety and Security Programs Management** is a three-credit, online course consisting of **six** modules and a final project. Modules include an overview, topics, learning objectives, study materials, and activities. Module titles are listed below.

- **Module 1: History and Evolution of Safety Management System**  
Course objectives covered in this module: CO 1
- **Module 2: Managing Hazards and Risks**  
Course objectives covered in this module: CO 2
- **Module 3: Safety Policy and Controls**  
Course objectives covered in this module: CO 2, CO 3
- **Module 4: Managing and Evaluating the Effectiveness of Safety Programs**

Course objectives covered in this module: CO 3, CO 4

- **Module 5: Implementing and Managing Airline and Airport Safety Programs**  
Course objectives covered in this module: CO 5, CO 6
- **Module 6: Implementing and Managing Airline and Airport Security Programs**  
Course objectives covered in this module: CO 7, CO 8

## ASSESSMENT METHODS

For your formal work in the course, you are required to participate in online discussion forums, complete written assignments, and complete a final project. See below for details.

Consult the Course Calendar for due dates.

### Promoting Originality

One or more of your course activities may utilize a tool designed to promote original work and evaluate your submissions for plagiarism. More information about this tool is available in [this document](#).

### **Discussion Forums**

You are required to complete **six** discussion forums. The discussion forums are on a variety of topics associated with the course modules.

### **Written Assignments**

You are required to complete **six** written assignments. Each of the written assignments asks you to write a paper that covers a number of topics relevant to the module.

### **Final Project**

Students will research an existing Safety Management System (SMS) plan within their organization or develop a new SMS plan for an organization that they identify. If the student's organization does not have an SMS plan, or they do not have access to it, the student will follow the FAA/ICAO guidelines for creating and implementing an SMS plan.

## GRADING AND EVALUATION

Your grade in the course will be determined as follows:

- **Online discussions (6)**—30%
- **Written assignments (6)**—30%
- **Final project**—40%
  - Step 1: Organization Identification (Week 4)—5%
  - Step 2: Draft Outline (Week 8)—5%
  - Step 3: Expanded Final Outline (Week 10)—5%
  - Step 4: Final Paper (Week 12)—25%

All activities will receive a numerical grade of 0–100. You will receive a score of 0 for any work not submitted. Your final grade in the course will be a letter grade. Letter grade equivalents for numerical grades are as follows:

A	=	93–100	B	=	83–87
A–	=	90–92	C	=	73–82
B+	=	88–89	F	=	Below 73

To receive credit for the course, you must earn a letter grade of C or higher on the weighted average of all assigned course work (e.g., assignments, discussion postings, projects). Graduate students must maintain a B average overall to remain in good academic standing.

## STRATEGIES FOR SUCCESS

### First Steps to Success

To succeed in this course, take the following first steps:

- Read carefully the entire Syllabus, making sure that all aspects of the course are clear to you and that you have all the materials required for the course.
- Take time to read the entire Online Student Handbook. The Handbook answers many questions about how to proceed through the course and how to get the most from your educational experience at Thomas Edison State University.
- Familiarize yourself with the learning management systems environment—how to navigate it and what the various course areas contain. If you know what to expect as you navigate the course, you can better pace yourself and complete the work on time.
- If you are not familiar with web-based learning, be sure to review the processes for posting responses online and submitting assignments before class begins.

## Study Tips

Consider the following study tips for success:

- To stay on track throughout the course, begin each week by consulting the Course Calendar. The Course Calendar provides an overview of the course and indicates due dates for submitting assignments, posting discussions, and scheduling and taking examinations.
- Check Announcements regularly for new course information.

## Using AI Ethically: A Guide for TESU Students

TESU's [Academic Code of Conduct](#) permits student AI use in support of their writing and research process—not as a replacement for original writing. Document AI use with an acknowledgment statement at the end of each assignment, noting the tools and prompts used. Cite any AI-generated content on the References page. Please review [Using AI Ethically: A Guide for TESU Students](#) for more detailed information.

## COMMITMENT TO DIVERSITY, EQUITY, AND INCLUSION

Thomas Edison State University recognizes, values, and relies upon the diversity of our community. We strive to provide equitable, inclusive learning experiences that embrace our students' backgrounds, identities, experiences, abilities, and expertise.

## ACCESSIBILITY AND ACCOMMODATIONS

Thomas Edison State University adheres to the Americans with Disabilities Act (ADA, 1990; ADAAA, 2008) and Section 504 of the Rehabilitation Act of 1973. The Office of Student Accessibility Services (OSAS) oversees requests for academic accommodations related to disabilities; a student who is pregnant, postpartum, or a student parenting a newborn who is not the birth parent [as covered under NJSA18A]; and students requesting academic accommodation for a short-term/temporary illness and/or injury. Information can be found on the [Office of Student Accessibility Services](#) webpage and questions can be sent to [ADA@tesu.edu](mailto:ADA@tesu.edu).

## ACADEMIC POLICIES

To ensure success in all your academic endeavors and coursework at Thomas Edison State University, familiarize yourself with all administrative and academic policies including those related to academic integrity, course late submissions, course extensions, and grading policies.

For more, see:

- [University-wide policies](#)
- [Undergraduate academic policies](#)
- [Undergraduate course policies](#)
- [Graduate academic policies](#)
- [Graduate course policies](#)
- [Nursing student policies](#)
- [Nursing graduate student policies](#)
- [International student policies](#)
- [Academic code of conduct](#)