American Public University System

The Ultimate Advantage is an Educated Mind

School of Security and Global Studies
Security Management
SCMT545
Airport Security Design
3 Credit Hours
Length of Course: 8 Weeks
Prerequisite: None

Table of Contents

Instructor Information

Instructor: See information provided in the Syllabus link in the classroom

Email: Please use internal classroom messaging system

Course Description (Catalog)

This course provides a comprehensive overview of the current state-of-the-art in airport security. Air terminal security is covered from the aspect of physical security considerations, baggage screening, training requirements for security personnel, employee screening and awareness programs, aircraft security, ground and air security technologies, integrating security systems for maximum coverage and protection, effective local, state, and federal liaison, counter and anti-

terrorism measures, narcotics and contraband - the use of working dog teams, and apron access and security considerations.

Course Scope

Current events make this topic a critical issue. This course provides a comprehensive overview of the current state-of-the-art in airport security. Current regulatory requirements are thoroughly studied. Airport security is covered from the following aspects: design and daily operational issues, physical security considerations, baggage screening, training requirements for security personnel, employee screening and awareness programs, aircraft security, ground and air security technologies, and integrating security systems for maximum coverage and protection.   Also examined and discussed are the issues of effective local, state, and federal liaison, counter and anti-terrorism measures, narcotics and contraband - the use of working dog teams, and apron access and security considerations.

Course Objectives

After successfully completing this course, you will be able to

- Evaluate the architectural infrastructure of modern airports.

- Develop a basic security operations program for airport scenarios.

- Assess security information for use in the context of an international airport for both public and private aviation venues.

- Justify proven methods, concepts, and theories to devise unique and innovative solutions to problems associated with rapidly changing airport situations and technologies.

- Synthesize new paradigms regarding the management of international air terminals.

- Prepare airport contingency plans.

- Develop a state-of-the-art airport security system based on current regulatory requirements and an intimate knowledge of new technologies.

Course Delivery Method

This course delivered via distance learning will enable students to complete academic work in a flexible manner, completely online. Course materials and access to an online learning management system will be made available to each student. **All initial forum responses for this course are due to be turned in no later than midnight (EST) on Friday of the week in which the forum is due. The two mandatory forum responses to fellow students are due no later than midnight, (EST) of the last day of the week in which the forum is due. The Final Exams and the research project are due the last day of the week in which** Assigned faculty will support the students throughout this eight-week course.

Course Resources

Required Course Textbooks

Book Number	Author	Book Title	Publisher	**ISBN**
SCMT545-1	Department of Homeland Security	Aviation Transportation System Security Plan (2007)	Department of Homeland Security	This document is available as a downloadable .pdf file at: http://www.dhs.gov /xlibrary/assets/hsp d16_transsystemsec urityplan.pdf
SCMT545-2	Department of Homeland Security	Aviation Security Policy, National Security Presidential Directive 47 / Homeland Security Presidential Directive 16 (2007)	Department of Homeland Security	http://www.dhs.go v/files/laws/gc_11 73113497603.sht m Or http://www.fas.org /irp/offdocs/nspd/

		Contains the aforementioned document and supporting plans		nspd-47.pdf
SCMT545-3	Transportation Security Administration (TSA)	Recommended Security Guidelines for Airport Planning, Design and Construction (Released May 2011)	TSA	http://www.tsa.gov/sites/default/files/assets/pdf/airport_security_design_guidelines.pdf

Optional Text

Publication manual of the American Psychological Association (2009). (6th ed.).

   Washington, D.C.: American Psychological Association.

Microsoft Office (MS Word, MS Excel, MS PowerPoint)
Adobe Acrobat Reader

Required Readings

See weekly readings.

Additional Resources

Noted throughout this course

Web Sites

In addition to the required course texts, the following public domain web sites are useful. Please abide by the university's academic honesty policy when using Internet sources as well. Note web site addresses are subject to change.

Site Name	Web Site URL/Address
Transportation Security Administration (TSA)	**http://www.tsa.gov/**
International Air Transport Association (IATA)	**http://www.iata.org/Pages/default.aspx**
Federal Aviation Administration (FAA)	**http://www.faa.gov/**
Aircraft Owners and Pilots Association	**http://www.aopa.org/whatsnew/regulatory/**

(AOPA)	

Evaluation Procedures

All forum work for this course is due to be turned in no later than midnight (EST) on Friday of the week in which the assignment is due. The two mandatory forum responses to fellow students are due no later than midnight, EST. of the last day of the week in which the forum is due.

Reading Assignments: See weekly readings below
Supplemental Readings: See supplemental readings below
Forum:

There is one "Introduction – Week 1 forum (forum posting only) and seven Forums during the course. Each will count as 10% of the final grade except for Forum #7b which accounts for 2% of yor final course grade. The homework assignments reinforce major elements of the course (Airport Security Design). These assignments address relevant questions from the text and provided supplementary resources. They are selected to provide the student with hands-on experience in applying the techniques and models discussed. Assignments should be prepared in Microsoft Word or a compatible word processing program uploaded into the classroom as per the instructions in "Announcements" by the due date.

Homework Assignments: See Forums and Research Paper

Exams/Quizzes:

There are two exams, each of which comprises 9% of the final grade. The exams are not timed but they are on-time access only. The exams cover selected sections of the textbook. They consist of essay questions only. Please coordinate with the professor for any special arrangements.

Field Experience Assignments: NA

Final Project (Assignment #7a):

Each student prepares and submits research paper as discussed in detail below. It comprises 20% of the final grade. Write a paper in MS-Word or an MS-Word compatible format of a minimum of fifteen pages in length exclusive of the title and reference pages. The paper must be written in APA style format using the guidance in the applicable appendices located in your Student Course Guide, in "Course Materials," and in "Guest Websites."

Using the material available in your course and on-line and/or from other sources, devise a plan for setting up a state-of-the-art airport security system. You must discuss the following points as a minimum:

1 - The security force - selection, organization, and training.

2 - Airport lay-out - suggest a design which maximizes security management efficiency and passenger flow while minimizing discomfort and delay to air travelers. You may use diagrams to supplement your work.

3 - Describe the system for screening passengers step-by-step as a process describing each piece of equipment used and its function. You may diagram this system if you wish.

4 - Describe how you would integrate systems for maximum efficiency.

5 - Discuss security management of freight air carriers in brief.

Your paper will be graded on the Rubric criteria explained in detail in the Rubrics folder in "Course Materials" as well as in your Student Course Guide appendix on this topic.
The only authorized Web resource for APA 6th ed. is located at:
http://owl.english.purdue.edu/owl/resource/560/15/

The points earned on course assignments determine the course grade. The final grade in the course is based on total points. Grades are assigned based on the following term composite scores:

Field Experience Assignments: NA

Grade Instruments	Points
Forums – 7	**700**
Research Paper	**100**
Mid-term Exam	**100**
Final Exam	**100**
Total	**1000**

8 – Week Course Outline

Please see the Student Handbook to reference the University's grading scale.

Week	Topic	Learning Objectives	Readings	Assignment

1	SCMT545-1 All-inclusive with emphasis on "Guiding Principles" Required Supplemental Readings; See Course Announcements/Lessons	Assess the size and scope of the U.S. aviation security plan. Assess the principal agencies involved and their specific roles. Evaluate the guiding principles involved. Defend the importance of interagency cooperation to mission success.	See Topic left	Introduction – Week 1 (post to form only) Forum #1
2	SCMT545-2 All-inclusive with emphasis on "Strategic Objectives Required Supplemental Readings: See Course Announcements/Lessons	Differentiate various elements of the aviation security policy Judge the purpose of HSPD-7 in regards to aviation security. Critique the pros and cons of private and public sector security screening forces.	See Topic left	Forum #2

		Evaluate the need for integrated planning at all levels from local to federal.		
3	SCMT545-3 Part II all-inclusive Required Supplemental Readings: See Course Announcements/Lessons	Appraise organizations critical to the development of airline security programs Deconstruct initial planning and design considerations. Assess the validity of the valuable planning checklists in CR545-2 for this week. Critique the facility protection guidance and outline provided. Rate key issues critical to the success of aviation security (holistic approach).	See Topic left	Forum #3
4	SCMT545-3 Part III, A & B	Assess the composition and	See Topic left	Mid-term Exam (Covers material

	Required Supplemental Readings: See Course Announcements/Lessons	purpose of aviation security from the standpoint of boundaries (perimeter security emphasized) Evaluate and summarize airside security considerations and the planning process. Rate various technological and physical security solutions in terms of utility. Critique the criticality of adopting a "holistic" approach to aviation security planning.		through Wk 3 only)
5	SCMT545-3 Part III, C & D Required Supplemental Readings: See Course Announcements/Lessons	Justify cost factors for airport operations and security issues. Judge the synergistic effect of systems integration on security systems efficiency and	See Topic left	Forum #4

		cost-effectiveness. Rate the effectiveness of bomb blast planning concerns to overall system safety. Assess how security managers evaluate the effectiveness of planned systems Evaluate terminal areas and rate their importance in terms of security system design planning.		
6	SCMT545-3 Part III, E & F Required Supplemental Readings: See Course Announcements/Lessons	Evaluate what constitutes an effective passenger screening system. Assess the "Administrative Search Exception" as it applies to aviation security searches. See supplemental reading for this week.	See Topic left	Forum #5

		Evaluate the salient features in state-of-the-art baggage screening systems. Judge the most effective means of effectively screening cargo operations. Diagram the design and implementation of an effective aviation ACAMS.		
7	PPT – The MANPAD Threat to Civil Aviation (all-inclusive) Required Supplemental Readings: See Course Announcements/Lessons	Analyze MANPADS from the standpoint of risk assessment. . Appraise the synergistic effect of systems integration on MANPAD security systems efficiency and effectiveness. Rate the effectiveness of MANPAD planning concerns to overall system	See Topic left	Forum #6

		safety. Evaluate potential MANPAD attack scenarios.		
8	Airports of the Future: The Development of Airport Systems (all-inclusive) Required Supplemental Readings: See Course Announcements/Lessons	Evaluate new security planning fundamentals. Assess the means by which new technologies will shape "airport future." Evaluate the need for designing a system which is capable of global implementation. Judge the most effective means of effectively screening cargo operations.	See Topic left	Assignment #7- (research paper) Forum #7b (associated Forum) Final Exam

Policies

Please see the Student Handbook to reference all University policies. Quick links to frequently asked question about policies are listed below.

Drop/Withdrawal Policy
Plagiarism Policy

Extension Process and Policy
Disability Accommodations

Writing Expectations

All written submissions should be submitted in a font and page set-up that is readable and neat. It is recommended that students try to adhere to a consistent format, which is described below.

- Typewritten in double-spaced format with a readable style and font and submitted inside the electronic classroom (unless classroom access is not possible and other arrangements have been approved by the professor).
- Arial 11 or 12-point font or Times New Roman styles.
- Page margins Top, Bottom, Left Side and Right Side = 1 inch, with reasonable accommodation being made for special situations and online submission variances.

Citation and Reference Style

Attention Please: Students will follow the APA sixth edition as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the:

Publication manual of the American Psychological Association (2009). (6th ed.).

Washington, D.C.: American Psychological Association.

Late Assignments

Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. As adults, students, and working professionals, I understand you must manage competing demands on your time. Should you need additional time to complete an assignment, please contact me before the due date so we can discuss the situation and determine an acceptable resolution. Routine submission of late assignments is unacceptable and may result in points deducted from your final course grade.

Netiquette

Online universities promote the advancement of knowledge through positive and constructive debate – both inside and outside the classroom. Forums on the Internet, however, can occasionally degenerate into needless insults and "flaming." Such activity and the loss of good manners are not acceptable in a university setting – basic academic rules of good behavior and proper "Netiquette" must persist. Remember that you are in a place for the rewards and excitement of learning which does not include descent to personal attacks or student attempts to stifle the Forum of others.

- **Technology Limitations:** While you should feel free to explore the full-range of creative composition in your formal papers, keep e-mail layouts simple. The Sakai classroom may not fully support MIME or HTML encoded messages, which means that bold face, italics, underlining, and a variety of color-coding or other visual effects will not translate in your e-mail messages.
- **Humor Note:** Despite the best of intentions, jokes and <u>especially</u> satire can easily get lost or taken seriously. If you feel the need for humor, you may wish to add "emoticons" to help alert your readers: ;-), :), ☺

Disclaimer Statement
Course content may vary from the outline to meet the needs of this particular group.

Online Library

The Online Library is available to enrolled students and faculty from inside the electronic campus. This is your starting point for access to online books, subscription periodicals, and Web resources that are designed to support your classes and generally not available through search engines on the open Web. In addition, the Online Library provides access to special learning resources, which the University has contracted to assist with your studies. Questions can be directed to **librarian@apus.edu**.

- ***Charles Town Library and Inter Library Loan:*** The University maintains a special library with a limited number of supporting volumes, collection of our professors' publication, and services to search and borrow research books and articles from other libraries.
- ***Electronic Books:*** You can use the online library to uncover and download over 50,000 titles, which have been scanned and made available in electronic format.
- ***Electronic Journals:*** The University provides access to over 12,000 journals, which are available in electronic form and only through limited subscription services.
- ***Tutor.com***: AMU and APU Civilian & Coast Guard students are eligible for 10 free hours of tutoring provided by APUS. Tutor.com connects you with a professional tutor online 24/7 to provide help with assignments, studying, test prep, resume writing, and more. Tutor.com is tutoring the way it was meant to be. You get expert tutoring whenever you need help, and you work one-to-one with your tutor in your online classroom on your specific problem until it is done.

Request a Library Guide for your course (http://apus.libguides.com/index.php)

The AMU/APU Library Guides provide access to collections of trusted sites on the Open Web and licensed resources on the Deep Web. The following are specially tailored for academic research at APUS:

- Program Portals contain topical and methodological resources to help launch general research in the degree program. To locate, search by department name, or navigate by school.
- Course Lib-Guides narrow the focus to relevant resources for the corresponding course. To locate, search by class code (e.g., SOCI111), or class name.

If a guide you need is not available yet, please email the APUS Library: librarian@apus.edu.

Turnitin.com

Turnitin.com is a web-based plagiarism prevention application licensed, for campus use, through the APUS Online Library. **Your assignments will be automatically submitted for review and requires no action on your part.** The quick submit option lets faculty upload and check suspicious papers, without requiring student to create their own Turnitin.com profiles.

Turnitin.com analyzes electronic submissions of student writing, compares them to the contents of a huge online database, and generates a customized Originality Report. The database used to produce this analysis contains a massive collection of documents available on the Internet from both free and commercial sources, as well as the full texts of all other papers that have been previously submitted to Turnitin.com.

Similarity index is based on the amount of matching text to a submitted paper:

Blue =	no matching text
Green =	one word to 24% matching
Yellow =	25 -49% matching text
Orange =	50-74% matching text
Red =	75-100% matching text

Selected Bibliography

Web Based Supplemental Resources

American Society for Industrial Security
http://www.asisonline.org/
Transportation Security Administration
http://www.tsa.gov/public/

9-11 Commission Report
http://www.gpoaccess.gov/911/

Federal Aviation Administration
http://www.faa.gov/

Aviation Security International (The Journal)
http://www.asi-mag.com/

Security Focus
http://www.securityfocus.com/

Corporate Security Resources
http://www.csr-i.com/management_resources.shtml

Weekly Summaries

Week 1

Scope: Students develop a basic knowledge of the Aviation Transportation System Security Plan (2007).

Objectives:

- Assess the size and scope of the U.S. aviation security plan.

- Assess the principal agencies involved and their specific roles.

- Evaluate the guiding principles involved.

- Defend the importance of interagency cooperation to mission success.

Required Readings:

Aviation Transportation System Security Plan (2007) – all-inclusive

Additional Required Readings:

1. Access the following website: http://airsafe.com/ and subscribe to the air safety bulletin which is free and provides highly useful and timely information on airport security and safety issues. (10 pp.)

2. Access the following website: http://www.howstuffworks.com/airport-security.htm and gain a working knowledge of how airport security works. (10 pp)

3. Access the following website: http://science.howstuffworks.com/transport/flight/modern/airport.htm and gain a working knowledge of airport operations - a useful adjunct to understanding airport security issues.(9 pp)

4. Access the following website: http://www.gao.gov/new.items/d09273.pdf and review the information on the current status of the Federal Air Marshal Program. (78 pp) Note: This document is also available in "Resources" in the "Copied Resources" folder. The document opens easily in Internet Explorer but you may not be able to open it in FireFox.

Assignment:

Introduction – Week 1 (post to forum only).

Submit Forum #1 - Discussion Questions:

Responses must be a minimum of 750 words in length for each DQ. They must include material from additional sources and the sources must be properly cited in an APA References section after your DQ responses.

1 – Discuss the importance of inter-agency cooperation to the success of the Aviation Transportation System Security Plan. Suggest strategies for accomplishing cooperation.

2 - In what ways have the events of 9/11 impacted both international and national commercial aviation and airport operations (as it applies to the U.S. aviation industry)?

Respond to the input of at least two of your classmates. The two primary responses must be a minimum of 250 words each.

Notes: Announcements are posted online in your classroom.

Week 2

Scope: The successful student demonstrates a grasp of the mechanisms of the national aviation security policy and associated documents with an emphasis on strategic objectives.

Objectives:

- Differentiate various elements of the aviation security policy

- Judge the purpose of HSPD-7 in regards to aviation security.

- Critique the pros and cons of private and public sector security screening forces.

- Evaluate the need for integrated planning at all levels from local to federal.

Required Readings:

Aviation Security Policy, National Security Presidential Directive 47 / Homeland Security Presidential Directive 16 (2007)

Additional Required Readings:

1. Access the following website: http://www.cato.org/dailys/10-20-01.html and read the article entitled, "The Case Against Federalizing Airport Security." (1 p)

2. Access the following website: http://www.gao.gov/new.items/d0927r.pdf and review TSA's cost/performance study of private screening forces. (51 pp)

Assignment: Submit Forum #2 - Discussion Questions:

Responses must be a minimum of 750 words in length for each DQ. They must include material from additional sources and the sources must be properly cited in an APA References section after your DQ responses.

1 – Measure the impact of the federalization of airport screening. Select a viewpoint pro or con to the aforementioned federalization and utilize security management fundamentals and additional resources to reinforce the key elements of your discussion.

2 – As a follow-on to DQ1, validate a plan as to how you would organize the screening force be it federal, privatized, or a combination of the two.

Notes: Announcements are posted online in your classroom.

Week 3

Scope: Students receive an introduction to the development of airline security programs. They define the essentials of passenger screening and summarize key issues.

Objectives:

- Appraise organizations critical to the development of airline security programs.

- Deconstruct initial planning and design considerations.

- Assess the validity of the valuable planning checklists in SCMT545-2 for this week.

- Critique the facility protection guidance and outline provided.

- Rate key issues critical to the success of aviation security (holistic approach).

Required Readings:

1. In *Recommended Security Guidelines for Airport Planning, Design and Construction*, (CR545-2), read: Part II, all-inclusive.

Additional Required Readings:

1. Proceed to the following website: http://www.gao.gov/new.items/d06869.pdf and review the Government Accounting Office (GAO) discussion of checked baggage screening procedures. Note that you must have the ability to read PDF files in order to launch this document. A PDF reader is available free from Adobe. Please let me know if you do not have an Adobe Acrobat reader downloaded to your computer and I will explain how you can download a recent version. (53 pp)

2. Access the following website: http://www.gao.gov/new.items/d07346.pdf and review the information on the effort to improve international passenger pre-screening. (54 pp)

Assignment: Submit Forum #3 - Discussion Questions:

Responses must be a minimum of 750 words in length for each DQ. They must include material from additional sources and the sources must be properly cited in an APA References section after your DQ responses.

1 - Evaluate and discuss airport operator and Airport Security Coordinator (ASC) security responsibilities.

2 - Write an essay as to what you feel is the most likely form of terrorist attack on U.S. aviation and why.

Respond to the input of at least two of your classmates. The two primary responses must be a minimum of 250 words each.

Notes: Announcements are posted online in your classroom.

Week 4

Scope: Students validate the purpose and methodology of aviation facility planning. They identify and develop basic information on key security concerns from the macro viewpoint.

Objectives:

- Assess the composition and purpose of aviation security from the standpoint of boundaries (perimeter security emphasized).

- Evaluate and summarize airside security considerations and the planning process.

- Rate various technological and physical security solutions in terms of utility.

- Critique the criticality of adopting a "holistic" approach to aviation security planning.

Required Readings:

1. In, *Recommended Security Guidelines for Airport Planning, Design and Construction*, (CR545-2), read: Part III, A & B, all-inclusive.

Additional Required Readings:

1. Proceed to the following website:
http://www.npr.org/templates/story/story.php?storyId=5678487&ft=1&f=1003 and listen to the National Public Radio (NPR) interview with an Israeli security expert on the topic of identifying

terrorists through the Israeli process which leans heavily on psychological profiling. (audio – 10 pp equivalent)

2. Access the following website: http://www.gao.gov/new.items/d08958.pdf and review the information on TSA's risk-based covert testing program. (50 pp)

Assignment: The Mid-term Exam is administered this week.

Notes: Announcements are posted online in your classroom

Week 5

Scope: Students appraise the primary security concerns involved in planning and implementing effective landside and terminal security measures. They examine factors relevant to creating successful security system designs. Successful students recognize the importance of systems integration and a holistic approach to aviation security challenges.

Objectives:

- Justify cost factors for airport operations and security issues.

- Judge the synergistic effect of systems integration on security systems efficiency and cost-effectiveness.

- Rate the effectiveness of bomb last planning concerns to overall system safety.

- Assess how security managers evaluate the effectiveness of planned systems

- Evaluate terminal areas and rate their importance in terms of security system design planning.

Required Readings:

1. In, *Recommended Security Guidelines for Airport Planning, Design and Construction*, (CR545-3), read: Part III, C & D, all-inclusive.

Additional Required Readings:

1. Proceed to the following website: http://www.cpni.gov.uk/documents/publications/2011/2011-11-27-blast%20effects%20on%20buildings%202nd%20ed_chapter%2011.pdf?epslanguage=en-gb

and read the abstract on barrier assessment and attacks utilizing vehicle-borne improvised explosive devices (VBIEDs). (25 pp)

2. Access the following website: http://www.aopa.org/whatsnew/newsitems/2004/04-2-087x_guidelines.pdf and review the security guidelines for general aviation (GA) airports. (48 pp)

Assignment: Submit Forum #4 - Discussion Questions:

Responses must be a minimum of 750 words in length for each DQ. They must include material from additional sources and the sources must be properly cited in an APA References section after your DQ responses.

1 - Write a paper comparing the two primary considerations, from the aviation security viewpoint, of both landside and terminal security system design planning.

2 - Many terminals are very vulnerable to the threat of improvised explosive devices (IEDs) and vehicle-borne improvised explosive devices (VBIEDs). As an aviation security consultant, suggest three means for mitigating the risks.

Respond to the input of at least two of your classmates. The two primary responses must be a minimum of 250 words each.
Notes: Announcements are posted online in your classroom

Week 6

Scope: Students evaluate and discuss passenger screening process, equipment, policies, plans, and procedures. The identification of specific challenges and the legal responses associated with them are the main discussion topics. Additionally, students compare and contrast the salient features of access control and alarm monitoring systems (ACAMS).

Objectives:

- Evaluate what constitutes an effective passenger screening system.

- Assess the "Administrative Search Exception" as it applies to aviation security searches. See supplemental reading for this week.

- Evaluate the salient features in state-of-the-art baggage screening systems.

- Judge the most effective means of effectively screening cargo operations.

- Diagram the design and implementation of an effective aviation ACAMS.

Required Readings:

1. In, *Recommended Security Guidelines for Airport Planning, Design and Construction*, (CR545-2), read: Part III, E & F, all-inclusive.

Additional Required Readings:

1. Proceed to the following website:
http://www.metnews.com/articles/2007/auka081307.htm and read the Ninth Circuit Court of Appeals recent ruling on airport security placing your study emphasis on administrative search exception to the Fourth Amendment to the U.S. Constitution. (1 pp)

2. Access the following website: http://www.gao.gov/new.items/d05781.pdf and review the GAO document concerning the status of flight and cabin crew member security training. While this is not an objective for this week per se, it is important to remain cognizant of efforts to secure aviation assets while airborne. (50 pp)

Assignment: Submit Forum #5 - Discussion Questions:

Responses must be a minimum of 750 words in length for each DQ. They must include material from additional sources and the sources must be properly cited in an APA References section after your DQ responses.

1 - Passenger through-put time (the average time it takes one passenger to process through a passenger screening system) is vital to the success or failure of a security screening process. Discuss two ways to enhance passenger through-put time while maximizing security effectiveness.

2 – Suggest and discuss two means of increasing the effectiveness of air cargo side screening operations. Reinforce your suggestions with facts.

Respond to the input of at least two of your classmates. The two primary responses must be a minimum of 250 words each.

Notes: Announcements are posted online in your classroom.

Week 7

Scope: Students appraise the primary security concerns involved in planning and implementing effective responses to the threat of man-portable air defense systems (MANPADS). They

examine factors relevant to creating successful security system designs. Successful students recognize the importance of systems integration and a holistic approach to aviation security challenges.

Objectives:

- Analyze MANPADS from the standpoint of risk assessment. .

- Appraise the synergistic effect of systems integration on MANPAD security systems efficiency and effectiveness.

- Rate the effectiveness of MANPAD planning concerns to overall system safety.

- Evaluate potential MANPAD attack scenarios.

Required Readings:

1. Proceed to "Course Materials and review the PowerPoint presentation on MANPADS presented by A. Prof. Fowler at the "Certified in Homeland Security 2008" convention. It is titled, "The MANPAD Threat to Civil Aviation"

Additional Required Readings:

1. Proceed to the following website:
http://www.aei.org/article/foreign-and-defense-policy/manpads-threaten-us/ and read the information concerning MANPADS. (1 pp)

2. Access the following website:
http://www.rand.org/pubs/occasional_papers/2005/RAND_OP106.pdf and review the RAND occasional paper on the MANPAD threat. (64 pp)
3. Access the following website and review the Congressional Research Service report on protecting civilian aircraft from missile attack.
http://www.law.umaryland.edu/marshall/crsreports/crsdocuments/RL31741_02162006.pdf (29 pp)

Assignment: Submit Forum #6 - Discussion Questions:

Responses must be a minimum of 750 words in length for each DQ. They must include material from additional sources and the sources must be properly cited in an APA References section after your DQ responses.

1 - Write a paper presenting your opinion of what the current state-of-the-art MANPAD mitigation system should be. Reinforce your opinion with facts.

2 – Examine the issue of planning the airport of the future I terms of minimizing the MANPAD threat. It is far easier to build systems into new designs than it is to attempt to modify existing ones.

Respond to the input of at least two of your classmates. The two primary responses must be a minimum of 250 words each.

Notes: Announcements are posted online in your classroom.

Week 8

Scope: Students evaluate and discuss the security enhancement possibilities inherent in new airport planning. The identification of specific challenges and the legal responses associated with them are the main discussion topics. Cutting edge technologies and systems integration are key learning points.

Objectives:

- Evaluate new security planning fundamentals.

- Assess the means by which new technologies will shape "airport future."

- Evaluate the need for designing a system which is capable of global implementation.

- Judge the most effective means of effectively screening cargo operations.

Required Readings:

1. Proceed to the following website: Airports of the Future:
The Development of Airport Systems" available as a .pdf at
http://www.documan.net/d/Airports-of-the-Future-The-Development-of-Airport.pdf
and review the information. (13 pp)

 Additional Required R**eadings**:

http://www.powershow.com/view/2e424-
NmZiZ/Airport_of_the_future__The_Task_Ahead_powerpoint_ppt_presentation
Proceed to the following website:
  (19 PPT slides)

2. Access the following website: http://www.iata.org/whatwedo/cargo/security/Pages/index.aspx and review the many information streams available on air cargo security. (10 pp.)

Assignment: Submit Assignment #7a – Research Paper and Forum #7b (associated Forum). #7b - In the associated discussion board, ensure that other students can view your final paper. You can do this via allowing access to your student folder through the applicable link in that area.

Exam: Final Exam administered this week

Notes: Announcements are posted online in your classroom.

Last update 10 November 2015