COURSE OUTLINE

AVM 460
THE NATIONAL AIRSPACE SYSTEM

Fall 2016

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Office Hours:  Tues, Wed, and Thurs 1300-1500
COURSE DESCRIPTION:

This course will examine the components and objectives of the United States National Airspace System. Emphasis will be placed on the exploration and discussion of current issues in the National Airspace System. This course is conducted in a seminar format and requires a great deal of active participation from the student.

Prerequisite: AVM 360 or professor’s consent.

COURSE OUTCOMES:

Outcome # 1

Describe the structure of the National Airspace System (NAS).

Outcome # 2

Gain an understanding of the Next Generation Air Transportation System (NextGen).

Outcome # 3

Gain an understanding of the National Airspace System Plan (NASP).

Outcome # 4

Gain an understanding of the Aviation System Capital Investment Plan (CIP).

Outcome # 5

Gain an understanding of current and future technologies that impact the NAS.

Outcome # 6

Discuss current and future issues that impact the NAS.

ASSESSMENT:

A. Oral question and answer sessions led by the instructor.

B. Written examination.

C. Presentation performance evaluation performed by instructor.

D. Evaluation of written assignments.
TOPICAL OUTLINE:

1. Current and future NAS Technology 20%
2. NAS Modernization 20%
   A. Enroute System
   B. Terminal System
   C. Flight Service Stations
   D. Airports
   E. Air Traffic Control
3. Ground to Air Systems 10%
   A. Navigation
   B. Surveillance
   C. Communications
4. NextGen 20%
5. Current NAS Topics 30%

ASSESSMENT COMPONENTS:

Mid-Term Exam 20%
Final Exam 25%
Group Presentation 30%
Article Review 15%
Current Events 5%
Participation 5%
Total 100%

GRADING SCALE:

A  90.00 - 100%
B  80.00 - 89.99%
C  72.00 - 79.99%
D  64.00 - 71.99%
F  63.99% or less

All coursework (including homework) shall be typed. Hand-written submissions will not be accepted!
ASSIGNMENTS

All assignments are due at the beginning of the class period on the day a deadline has been established. Late submissions will not be accepted.

IDENTIFICATION

If a student fails to provide his name on an exam or assignment, he/she will forfeit 3 points of their exam or assignment score.

E-MAIL ETIQUETTE

If you contact me via e-mail: place the course abbreviation you are referring to, e.g. AVM 460, AVM 377, etc. in the subject line. In the body of the e-mail, tell me who you are, and how I can help you. If you do not comply with these instructions, I will immediately delete your message. I do not open messages or attachments from students who do not identify themselves. No point penalty will be assessed, but your message will be deleted and any assignment you are forwarding will NOT be graded - resulting in a zero for the assignment.

ARTICLE REVIEWS

Students will provide one 2-to-3 page (three page maximum) written report of an NAS related topic. The review will feature a summary of the NAS related article/report and will also contain a section that discusses your views of the topic (the topic must be approved by the professor).

Article reviews must be written in compliance with the format provided. Reviews will be evaluated for grammatical correctness, conciseness, readability, clarity of thought, and format adherence. I do not believe that a written report must be 10 - 15 pages long to showcase your writing skills and formulate a comprehensive report. Students who do not turn in their written report, at the beginning of class, on the due date, will receive a score of zero for that review. The recycling of reports from other classes is not permitted and will result in a score of zero for the entire activity. Late submissions will not be accepted! The Article Review activity is valued at 15% of a student’s final grade.

CURRENT EVENTS:

Knowledge of current industry events is the responsibility of all aviation professionals. Therefore, all students will participate in providing an oral summation of the previous week’s aviation news. You will be notified of your selection on week in advance. If assigned, failure to participate in this activity on the day assigned will result in a zero for the activity. The Current Events activity is valued at 5% of a student’s final grade.
THE GROUP PRESENTATION

The presentation is a formal presentation. The presentation topic will be assigned to the student by the professor. Students are required to discuss a current event topic associated with the national airspace system. PowerPoint or similar media will be used in developing and delivering the presentation. Presentations will be at least 30 minutes long and limited to 45 minutes in duration (short videos may be used to augment the presentation). The Group Presentation activity is valued at 30% of a student's final grade.

PARTICIPATION

All students are required to participate/inquire/comment during all in-class exercises, discussions and presentations. If a student does not participate (speak up) during these activities they can forfeit up to 100 of 100 participation points during the course of the semester. The Participation activity is valued at 5% of a student’s final grade.

EXAMS

Students will be required to complete two course exams - a mid term and final exam. The Mid-Term exam is valued at 20% of the final grade, and the Final Exam is valued at 25% of the final grade. The Final Exam will be held on Thursday, May 12, 2016 @ 0800 in TEC classroom 180.

PLAGIARISM

Plagiarism is defined as the unauthorized use or close imitation of the language and thoughts of another author and the representation of the theme as one’s own original work, as by not crediting the author, i.e. direct copying and pasting from the internet or any other source without giving credit to the original author. Paraphrasing is acceptable, but the original work must still be cited.

In an effort to identify and reduce the number of offenses involving plagiarism, the following service is available to SIUC faculty. Turnitin.com is a Web-based plagiarism detection service available to SIUC faculty who are currently teaching or support teaching activities at SIUC. The service is useful to instructors who suspect a paper submitted to them contains plagiarized text. Turnitin.com allows the instructor to upload a paper into its database, where software uses algorithms to create "digital fingerprints" that has the ability to identify similar patterns in text. The paper is then matched to billions of web pages, paper mill essays, and student papers submitted online. In an hour or less, Turnitin.com creates an "originality report" that highlights any passages from the paper that may not be authentic, and lists web sites and other resources with content that matches that in the paper.

Don’t try it! Plagiarism of material will not be tolerated. It will result in a score of zero for the class and possible suspension from the university.
EMERGENCY PROCEDURES

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT’s website at www.bert.siu.edu Department of Safety’s website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

COURSE MANAGEMENT:

1. All penalty points (except absenteeism) and/or extra credit points will be assessed toward or against the student’s final exam score.

2. All unexcused absences will result in the loss of 2 overall final grade percentage points. Penalized percentage points will be assessed against a student’s final class score/grade. For example, if you are absent for one class, a final grade score of 90 (A) becomes a score of 88 (B).

Coordinate any anticipated late arrivals/early departures with me as quickly as possible (not days after the fact). Otherwise, do not expect me to make any concessions.

3. Please be on time. Tardiness is disruptive and not tolerated. Unless coordinated and approved by myself, late class attendance, will result in a 3-point penalty. If you are 1 hour, or more, late for class you will be noted as absent. If you leave class early, without consulting and gaining approval from the professor before leaving, you will be penalized 3 points for every 30 minutes of missed class time.

Coordinate any anticipated late arrivals/early departures with me as quickly as possible (not days after the fact). Otherwise, do not expect me to make any concessions.

4. If you are a flight student, be aware that stage checks and check rides do not take precedence over this class. This class is held every Tuesday @ 0900 - I do not have the luxury of re-scheduling classes. If you choose to be late or absent (you do have a choice) you will be penalized as outlined in this syllabus.

5. Make-up Exams/Group Presentations are not conducted. Exams are administered at the beginning of a class session. If you are less than 30 minutes late to class on the day an exam is conducted, you will be allowed to take the exam, but you will forfeit 10 points of the exam.
If you are more than 30 minutes late for the exam, you will forfeit 25 points of the exam score. If you are not in attendance for an exam or group presentation, you will receive a grade of zero. If you believe you will not be present, or late for an exam or group presentation, it is your responsibility to advise/coordinate with me immediately.

6. Cell phones must be placed in silent/vibrate mode during class. If your cell-phone rings/chimes during class you will forfeit 5 points. Cell phones shall not be accessed for ANY purpose during class. If you are caught texting, checking your e-mail, surfing the internet, etc. 10 points will be deducted from your final exam score. Laptops, Tablets, or similar devices may be used for note taking or other class-related activities. However, if they are used for playing games, performing homework related to other classes, surfing the internet or other purposes the professor considers inappropriate, the student shall be penalized 10 points and banned from using his or her tablet/laptop/similar device during class the rest of the semester. If you even appear to be violating any of the abovementioned mandates - I will bring it to your attention. Both transgressions are rude and disrespectful – I am intolerant of both!

7. The professor maintains the right to penalize a student whatever number of points he believes is warranted for not following direction, or behaving in a manner that the professor believes is rude, disrespectful, disruptive or inappropriate.

8. Notify me immediately of any circumstances that may affect your ability to meet course requirements. I will not make concessions for you if you choose to discuss your problems with me at the end of the semester. It is your responsibility to coordinate any difficulties/problems with me immediately, not at your convenience, e.g., group assignment, exams, absences, etc.

9. I do not “round up” final class scores, however if a student is never late or absent from class, I will award that student 5 points extra credit (to be applied to their mid-term score). If you are late or absent for one or more classes (unexcused) you will no longer qualify for the award. I will determine if your circumstance warrants a deviation from this policy on a case-by-case basis.

10. I strive to facilitate a classroom environment that is informative, interesting, and relaxed - but I do not tolerate nonsense! This entire section can be summarized in several statements:

   a. Come to class.
   
   b. Come to class on time.
   
   c. Be courteous to me and your classmates.
   
   d. Be responsible.
IMPORTANT DATES *
Semester Class Begins…………………………………………………………01/19/2016
Last day to add a class (without instructor permission):………………01/24/2016
Last day to withdraw completely and receive a 100% refund: …….01/31/2016
Last day to drop a course using SalukiNet:…………………………….04/03/2016
Last day to file diploma application (for name to appear in Commencement program): ………………………………………………………………02/12/2016
Final examinations: ……………………………………………………………05/09-05/13/2016
Note: For outreach, internet, and short course drop/add dates, visit Registrar’s Academic webpage http://registrar.siu.edu/

SPRING SEMESTER HOLIDAYS
Martin Luther King, Jr.’s Birthday Holiday 01/18/2016
Spring Break 03/12—03/20/2016

WITHDRAWAL POLICY ~ Undergraduate only
Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit http://registrar.siu.edu/catalog/undergraduatetcatalog.html

INCOMPLETE POLICY ~ Undergraduate only
An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student’s grade point average. For more information please visit: http://registrar.siu.edu/grades/incomplete.html

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A,B,C,D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at http://registrar.siu.edu/catalog/undergraduatetcatalog.html

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit http://gradschool.siu.edu/about-us/grad-catalog/index.html

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM
Student Conduct Code http://srr.siu.edu/student_conduct_code/
MORRIS LIBRARY HOURS
http://www.lib.siu.edu/about

SAFETY AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES
The purpose of Saluki Care is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Care: (618) 453-5714, or siucares@siu.edu, http://salukicares.siu.edu/index.html

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INCLUSIVE EXCELLENCE
SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well an essential preparation for any career. For more information please visit: http://www.inclusiveexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:
Tutoring: http://tutoring.siu.edu/
Math Labs http://math.siu.edu/courses/course-help.php

WRITING CENTER
The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our office's main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

Additional Resources Available:
SALUKINET: https://salukinet.siu.edu/cp/home/displaylogin

ADVICEMENT: http://advisement.siu.edu/

PROVOST & VICE CHANCELLOR: http://pvcaa.siu.edu/

SIU ONLINE: http://online.siu.edu/