SYLLABUS SAN JOSE STATE UNIVERSITY DEPARTMENT OF AVIATION & TECHNOLOGY

Aviation 178 – Airport Planning and Management

Fall Semester, 2013 Wednesday, 1500-1745

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Classroom: Industrial Studies 216

Office Hours: Wednesday 1255-1455

THE INSTRUCTOR RESERVES THE RIGHT TO AMEND THIS SYLLABUS AS APPROPRIATE WITH COURSE PROGRESSION

Course Catalog Description

Design, planning, and management of airports in the US including airport development and airport design. Legal responsibilities as an airport manager. Issues and regulations applicable to airport planning and management.

General Course Description

This course will provide the students with an understanding of the major elements in the process of airport planning and management from a system perspective. The course will cover such topics as airport financing and privatization, site selection and environment impact, airport capacity and delays, terminal plan and design, ground access plan, daily operations and security, international difference, multiple-airport system and airport's relationship with airlines.

Course Objectives

At the end of this class, students will be able to obtain the basic knowledge of airport planning and management; develop technical skills for managing airport; understand the airport business from a system perspective; and be able to carry out the majority of tasks for airport planning and management.

Prerequisite

Aviation 78

Required Textbooks

1. *Airport Systems: Planning, Design and Management*, 2nd edition, by Richard de Neufville and Amedeo Odoni, 2013, ISBN 978-0-07-177058-3.

Class Format

- a. Instructor's lectures and presentations
- b. Group discussions and student presentations

Course Schedule (subject to change with fair notice)

Course	W	Date	Lecture Topics	Reading	Reminder
Module	e			Assignment	
	e				
	k				
I: Airport	1	Aug. 21	Syllabus, course introduction, airline and	Ch.1	
Planning and			airport industry		
System	2	Aug. 28	Airport system planning; environment		
Analysis			impact	Ch.4, 6	
	3	Sep. 4	Organization and financing; user charges	Ch. 7, 8	HW1 Due
II: Airfield	4	Sep. 11	Airport layout and land use plan; airfield	Ch. 9	Proposal
Plan, Design			plan and design		Due
and	5	Sep. 18	Airfield capacity	Ch. 10	HW2 Due
Management	6	Sep. 25	Airfield delay; demand management	Ch. 11, 12	
	7	Oct. 2	Air traffic control and management;	Ch. 13	HW3 Due
			course review		
Exam	8	Oct. 9	Midterm		Midterm
III: Terminal	9	Oct. 16	Plan and configuration of passenger	Ch. 14	
and Ground			buildings		
Access	10	Oct. 23	Design of passenger buildings	Ch. 15, 16	
	11	Oct. 30	Ground access and distribution	Ch. 17	HW4 Due
IV: Airport	12	Nov. 6	Airline's impact on airport; international	Ch. 2, 3, 5	
Management			differences; multi-airport system		
and Student	13	Nov. 13	Airport daily operations and security		HW5 Due
Presentations	14	Nov. 20	Case studies, course summary and review		
	15	Nov. 27	Student presentations		
	16	Dec. 4	Student presentations		Project
					Due

Final Examination: Friday, Dec 13, 2013, 1215 – 1430

Class Grading

Class Participation (class conversation and discussion) 10% Homework 20%

Midterm 20%

Final 30%

Case study and presentation 20%

The typical final grade distribution is: 93-100 A; 90-92 A-; 88-89 B+; 83-87 B; 80-82 B-; 78-79 C+; 73-77 C; 70-72 C-; 69 D+; 65-68 D; below 65 F. And the final grade might be adjusted due to the degree of difficulty of the exams and other assignments.

Reading Assignment

Students are required to complete the advance reading assignment for each lecture. The lecture will be difficult for those who don't make this preparation.

Homework

Homework is due on the day of class, before class starts. No late homework will be accepted, unless prior approval is granted. Students are required to use Microsoft Word or any other document editor software to write the text part of their homework.

Exams

Exams will cover materials in lectures, homework, class discussions and required readings. Make-up tests will not be allowed unless prior approval is obtained from the instructor and will be given in the case of evidenced extreme circumstances.

Term paper

The term paper is expected to be completed by a team consisting of 3 to 5 students.

Students are encouraged to discuss with the instructor on the topics, resources and writing of this project.

There are two options for the topic of this term paper: 1) "master plan" option – a case study of an airport master plan; and 2) "article analysis" option – to review and analyze "related" research articles available in the published journals in library or in other published reports.

Students are required to submit a one-page proposal for the selection of topic for this term paper at the beginning of the fourth class of the semester. This will include team members, the title, objectives and preliminary outline of the paper, and initial references as well as data and information sources.

The final paper should be less than 20 pages. All the reviewed/referred articles should be attached to the paper. The final paper is due on the last class of instruction for this semester.

For the "master plan" option, you can choose any major airport in the US or in other countries.

For the "article analysis" option, the topic can be chosen from, but not limited to, the following topics:

- * Airport privatization, current airport finance issues/problems, or innovative airport financing approaches
- * Airport ground access development and management

- * Airport security and safety
- * Airport delays
- * Airport site selection; and relationship between airport and the community over such issues as environment concerns
- * Relationship between airlines and airport
- * Multi-airport system development
- * International issues
- * Airport capacity expansion or new airport construction projects
 Grading of the term paper is based on the following criteria:
- a. Use of resources: your final paper should indicate a thorough search of information and in-depth investigation of the chosen subject.
- b. Organization and style of writing: the final paper should include introduction, literature review, analysis details, and a summary or conclusion. It should have clear transitions.
- c. Contents and analysis: focused and relevant discussion of subject, in-depth analysis, and clear summarization of main points.
- d. 15 20 minutes presentation: effectiveness of presentation and clear answers to questions on the presentation.

Academic integrity statement (from the Office of Student Conduct and Ethical Development):

"Your own commitment to learning, as evidenced by your enrollment at San Jose State University, and the university's Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The policy on academic integrity can be found at http://sa.sjsu.edu/student conduct."

Campus policy in compliance with the Americans with Disabilities Act:

"If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with DRC to establish a record of their disability."