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2008 Spring Semester (IHP)
400020110 section 01 Airport Planning and Design
Kainan University

Course Description:

Theory and principles of airport planning & design, include both general aviation and major commercial airports. Design projects required.

Course Objectives:

To teach fundamentals and latest design practices of airport planning and design.

General Information:

Instructor: J.J. Hsu, Ph.D., P.E.
Class Location: A211
Class Hours: Monday (M) 8:10 – 10:00am & Thursday (Th) 9:10 – 10:00pm
Office: N505 (Office of Research and Development)
Office Hours: M 1:00pm – 4:00pm & W 8:00am – 12:00pm; other hours by **appointment** only
Fax: 03-341-4429
Phone: 03-341-2500x1721
E-Mail Address: jhsu@mail.knu.edu.tw

Textbook (not-required):

Planning and Design of Airports, Horonjeff & McKelvey, 4th Edition, McGraw-Hill.

Recommended Web Sites:

FAA: www.faa.gov
ATAG: www.atag.org
IATA: www.iata.org
ICAO: www.icao.int
ACI: www.airports.org

Class Policy:

- Students are required to attend and participate in the lectures and exams, and are responsible for submitting assignments on time.
- If the student can not attend a class or submit an assignment, the instructor must be notified in advance (via email) or as soon as possible.
- Students who miss class are still responsible for the material covered in class.
- A student with more than **three absences** is in danger of not receiving a passing grade and **no curve will be given.**
- The instructor's office hours are only for students who show up to class and attempt the assignments. Office hours are not a substitute for class time.

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- Office hours are an excellent opportunity to review problems you are having with homework or to receive individual help.
- No assignment, no class, no degree is worth cheating for. **All students caught cheating on homework assignments or exams will automatically receive a failing grade (0 points) for the course and are subject to disciplinary actions.**

Exams:

- There will be two 2-hr exams.
- **There are no makeup exams.**
- Exam material will come from what is covered in class and your handouts.
- The exams are timed. After time has been called, you must turn in the exam. Exams that are not turned in immediately will automatically get a 10-point deduction. If the student exceeds a respectable amount of time, the instructor has the right not to accept the exam and assign a zero grade.

Special Project

Every student in this class is required to join a team and do a Project. Your team will be assigned one of the following topics:

1. Planning and Design of HKIA Airport. (Roy, Nhesty)
 2. Planning and Design of SFO Airport. (Elaine, Viviene)
 3. Planning and Design of LAX Airport. (Clarizza, Mariel)
 4. Planning and Design of TPE Airport. (Nadya, Muugii)
 5. Planning and Design of MIA Airport. (Alexander)
- The order of the presentation will follow the order of these topics.

Presentation

A special requirement of the project is that every team project must be accompanied with a set of 20 **Microsoft PowerPoint color slides**. This set of PowerPoint slides must be used in your team's presentation in the class. All PowerPoint color slides must be of good quality. Each team is required to do a **15 min. presentation** with these slides. **The digital files of the presentation and final report must be turned in on June 12, 2008.** Remember, together they account for 30% of your grade, please make sure they are of professional quality and properly done. Teamwork and the ability to express your view clearly in writing and speech are very important.

Report format

1. The report must be typed (Times new Roman, 12pt), of letter quality, double-spaced and should be at least 10 pages long (about 6 pages of text and 4 pages of figures and tables). Please refer to the International Journal of Information Systems for Logistics and Management (IJISLM) <http://www.knu.edu.tw/ijislm> or in the Library on how to write a paper.
2. Figures, if any, should be produced by printer/plotter.

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Student Evaluation Criteria and Grading:

Students are expected to comply with all requirements for the class. Grades are not given; they are earned. You are expected to accept all responsibility for your performance in the class. This is a three credit hour course, so expect to work at least three hours outside of class for every one-hour in class. Below is a breakdown of the points that can be earned this semester.

Grading Policy	
First Exam	25%
Second Exam	30%
Pop Quizzes, Attendance, Classroom Performance & Assignments	15%
Presentation	10%
Project Report	20%
TOTAL	100%

GRADES

A = 95 =< Grade	B- = 80 =< Grade < 84
A- = 90 =< Grade < 95	C+ = 77 =< Grade < 80
B+ = 87 =< Grade < 90	C = 74 =< Grade < 77
B = 84 =< Grade < 87	C- = 70 =< Grade < 74
	D+ = 67 =< Grade < 70
	D = 64 =< Grade < 67



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TENTATIVE CLASS SCHEDULE

No.	DATE	TOPIC (Reading Assignment in Chapters)	Note
1	2-25,28		First class, 228 holiday (no Class)
2	3-3,6	Introduction (1) and	
3	3-10,13	Airport Financing (2)	
4	3-17,20	Aircraft Characteristics (3) and	
5	3-24,27	Air Traffic Control (4)	
6	3-31, 4-3	Airport Planning (5)	
7	4-7,10	Environmental Impact Assessment (15)	University Accreditation period
8	4-14,17	Review	University Accreditation period
9	4-21,24	FIRST EXAM - closed book exam (Chapters 1-5, 15)	Midterm week (4-21)
10	4-28, 5-1	Forecasting in Aviation (6) &	
11	5-5,8	Airport Configuration (7)	
12	5-12,15	Airport Capacity (8)	
13	5-19,22	Geometric Design (9)	
14	5-26,29	Planning & Design of Terminal (10)	
15	6-2,5	Review	
16	6-9,12	SECOND EXAM - open book exam (Chapters 1-10, 15)	
17	6-16,19	Presentation I	
18	6-23,26	Presentation II	Final Exam week

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