

# The University of Western Ontario

## Management and Organizational Studies Program

### MOS 4405F Airport Planning and Management

#### Course Outline - 2009

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**Instructor:** Mike Seabrook

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**Lectures:** Mondays: 4:30 pm to 7:30 pm SSC 3024

A three-hour session, one evening each week, will comprise the classroom sessions. The standard format for the classroom sessions will be two hours of lecture followed by a discussion period. Students will be expected to complete the required readings prior to the classroom session to facilitate informed discussion of the material.

**Course Overview:** Airports are an integral part of the aviation industry in Canada and throughout the world. Airports are economic engines to the communities that they serve, and are essential instruments of a nation's air transportation system. The Airport Planning and Management Course will focus on the management, operations and planning issues facing airports in this era of rapid change and technological development.

In this course, the major components of planning and managing airports will be taught with the objective of providing the student with a broad understanding of airports and their role in aviation transportation.

**Required Text:** Airport Planning and Management – Fifth Edition, Alexander T. Wells & Seth Young

**Grading:** Course grades will be determined on the basis of class participation, one Case Study/Essay and two exams as follows:

|                                    |     |
|------------------------------------|-----|
| Essay/Case Study                   | 25% |
| First Exam                         | 30% |
| Final Exam (Christmas Exam Period) | 45% |

**Exams:** There will be one “mid-term” test and one final exam given in this course. The first test will be multiple choice and short answer questions and will be worth 30% of the course mark. The test will be one hour in duration.

The final exam will be multiple choice and short answer questions and will be worth 45% of the course mark. The test will be two hours in duration, and will cover all course material

**Essay/Case Study:** Students will be required to write a written report based on a Case Study Analysis. The students will work in small groups and will be given two weeks to complete the analysis and submit a written report. The groups will then be required to make a short presentation on the findings to the class. The written report will be a minimum of 10 typed pages. The students will be evaluated on their analysis of the problems and opportunities in the case, the strategies and tactics that they have developed to address the issues, and their effectiveness in presenting the material.

## **Course Outline: (Sessions are Tentative)**

The course is divided into 12 sessions and an outline for each of the sessions is developed below:

### **September 21st:**

- **Introduction to Airport Planning and Management**
  - Overview of aviation and airport development in Canada
  - Airport Commercialization and the National Airport Policy
  - Airport Authorities...intent, results, future
  - Airport Ownership and Operations
  
- **The Airport System**
  - Canadian classification of airports
  - Current issues in airport development
  - Role of the FAA in the United States

Required Reading: Wells and Young – Chapter 1, 2 & 3

### **September 28th:**

- **The Impact of Airports on the Community**
  - The economic role of airports
  
- **Airport Planning**
  - Airport Master Planning
  - The Airport Layout plan
  - Forecasting demand
  
- **Airport Capacity and Delay**

Required Reading: Wells and Young – Chapter 10, 11 and 12

**October 5th:**

- **The Components of the Airport**
  - The airfield
  - Airspace and Air Traffic Control

Required Reading: Wells and Young – Chapter 4 & 5

**October 12th:** Thanksgiving – no class

**October 19th:**

- **The Components of the Airport (...continued)**
  - Airport terminals
  - Security Considerations
  - ground access and services

Required Reading: Wells and Young – Chapter 6

**October 26<sup>th</sup>:**

- **Airport Operations**
  - Operational Priorities and Tasks
  - Summer and Winter Operations
  - Environmental Considerations and Planning
  - Bird and wildlife hazard management

Required Reading: Wells and Young – Chapter 7

**November 2nd:** Midterm Exam

**November 9th:**

- **Emergency Planning**
  - Aircraft rescue and firefighting
  - Airport Safety and Security Plans
  - Canadian Air Transport Security Authority
  
- **Airport Tenants and Operations**
  - Who they are and what they do
  - Canadian Border Services Agency

Required Reading: Wells and Young – Chapter 8

**November 16th:**

**Airport Financial Management**

- Airport Fees and Charges
- Financial planning
- Financial accounting
- Capital Investment

Required Reading: Wells and Young – Chapter 9

**November 23rd:      **Field Trip to London International Airport and Distribution of Case Study****

**November 30th:**

- **Airport Commercial Development**
  - Airlines and Airservice Development
  - Cargo Development
  - Land Development

Required Reading: Wells and Young – Chapter 13

**December 7th:      Case Study Presentations and Discussion**