

AVIATION 209

INTERNATIONAL FLIGHT PLANNING AND EXTENDED RANGE OPERATIONS

WINTER 2010

5.0 CREDITS

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Section: A

Course Description:

This class includes navigation, weather, communications, regulations, international flight planning, two engine extended range operations and other subjects required for international dispatch.

Materials for Course:

1. International Flight Planning & Information Manual (IFIM) handouts (provided).
2. Various handouts and charts.

Learning Objective:

The student will obtain the necessary aeronautical knowledge in international flight planning to perform complex flight planning and predict aircraft performance. The student will become familiar with FAA regulations concerning twin-engine operations over extended over water flights. This class is taught using the lecture and discussion method. Stage tests are given following each stage and a final comprehensive examination is given.

Instructional Method:

Lecture, PowerPoint presentations, computer data projection and discussion. Study assignments may be done on in-class computer or at home.

Basic Course Outline:

- Stage I
 - Introduction and International Regulations
 - Earth Reference Systems
 - Maps and Charts
 - ETOPS
 - Performance

- Stage II
 - International Trip Planning and Preparation
 - Trans-Oceanic Flights
 - Flight Planning
 - Flight Performance

- Stage III
 - International Flight Operations

- Stage IV
 - Computerized Flight Planning

- Stage V
 - Flying in Europe
 - International Weather
 - Navigation
 - Navigation
 - Inertial Navigation
 - Loran – C
 - GPS
 - LAAS/WAAS
 - RNP

Campus-wide Outcomes: Green River Community College has identified ability areas that we believe encompass knowledge and are the most important skills, behaviors, attitudes, and values that students will need in order to be successful after leaving the college. Among these ability areas, this class will address Responsibility, Quantitative/Symbolic Reasoning, Critical Thinking, and Written & Oral Communications. Outcomes in these ability areas and where they will be demonstrated in your work are listed below.

Responsibility:

1. Student demonstrates a knowledge of and a willingness to accept stated/agreed upon expectations, policies, behavior, and procedures.
2. Student demonstrates accountability (punctual and ready to learn), integrity (does own work and pulls own weight in collaborative tasks), initiative (seeks help when needed), and tolerance (develops awareness of own biases).
3. Student actively and appropriately interacts with others respecting everyone's opinion.

Demonstrated by preparedness for lectures and discussions, handing assignments in on time, and group accountability.

Quantitative/Symbolic Reasoning:

1. Student evaluates and interprets information / data.
2. Student recognizes which processes or methods are appropriate for solving a given problem, and correctly implements those processes.
3. Student demonstrates the ability to estimate a solution to a presented problem
4. Student translates data into various formats such as graphs, tables, formulas, and sentences.

Demonstrated through your answers in class, on projects, homework, and tests.

Critical Thinking:

1. Student provides reasons for the conclusions they reach and assess the relevance and adequacy of those reasons.
2. Student connects past learning with current topics.

Demonstrated through your explanations in class, on projects, assignments, and tests.

Written & Oral Communications:

1. Student demonstrates involvement with the material by expressing a clear sense of purpose, unity, and focus in their writing or speaking.
2. Student demonstrates clear organization of their thoughts in written and oral communications.
3. Student demonstrates well-organized and logical writing with correct grammar and spelling.

Demonstrated in projects, test answers, and class and group participation.

Special Needs:

If you need course adaptations or special accommodations because of a disability, if you have emergency medical information, or if you have special accommodations that need to be shared with me in the event that the building needs to be evacuated, please contact me. If you use an alternate medium for communicating please let me know as soon as possible so that appropriate accommodations can be made. Disability support services is located in LSC 277 and may be contacted at: 253-833-9111, ext. 2631 or TDD at 253-288-3359.

Attendance/Tests:

5 Tests	100 points each	500
Flight Plan Test/Final	200 points	200
Attendance		200 points for 85 to 100%
		100 points for 75 to 84%
		0 points for less than 75% and one less letter grade
Total		700+ points

Class Notes:

- Cell phones will not be allowed to be “ON” in class.
- Chatting or laughing about subjects other than those pertaining to class will not be tolerated. Please respect your fellow students.
- If you are late, please come in quietly and sit at your station.
- Browsing the internet while a lecture or other instructional activity is in progress will not be permitted.
- No food will be allowed in the classroom.
- Avoid surfing the internet while lecture is in progress
- There will no use of computers while the class is in session unless it is required for class assignments

Grading Policy:

99-100	4.0	79	2.4
97-98	3.9	78	2.3
95-96	3.8	77	2.2
93-94	3.7	76	2.1
91-92	3.6	75	2.0
90	3.5	74	1.9
89	3.4	73	1.8
88	3.3	72	1.7
87	3.2	71	1.6
86	3.1	70	1.5
85	3.0	69	1.4
84	2.9	68	1.3
83	2.8	67	1.2
82	2.6	66	1.1
81	2.6	65	1.0
80	2.5	64	0.9
		63	0.8
		62	0.7

