

SYLLABUS

COURSE # AND TITLE:

AVIA 240 Multi-Engine Ground School

OF CREDITS

3 Credits

CATALOG DESCRIPTION:

This course covers the aerodynamics and the systems of the light twin engine aircraft. Emphasis is placed on the BE-58 Baron, its performance and systems. The class will study the general operating policies and procedures of a regional/domestic airline. In preparation for training in the CRJ flight training device, the class will study the maneuvers, profiles and checklists for the CRJ. The CRJ Flight Management System will also be introduced. Additionally, the course will look at some topics covered in the FAA ATP exam.

LEARNING OBJECTIVES:

1. Students will understand the factors that determine the critical engine of a light twin aircraft.
2. Students will understand the factors that affect V_{mc} and the performance of a light twin aircraft.
3. Students will show proficiency in the major systems and components of a BE-58 aircraft.
4. Students will show functional knowledge of the performance characteristics and the limitations of the BE-58 aircraft.
5. Students will show functional knowledge of the FAA Part 61, 91, and 121 regulations as they pertain to flying for a regional/domestic air carrier.
6. Students will show functional knowledge of the general operating procedures and policies of a regional/domestic air carrier.
7. Students will have a working knowledge of the Flight Management System of a CRJ.
8. Students will show functional knowledge of the checklists, maneuvers and profiles of a CRJ.

EXPECTED LEARNING OUTCOMES:

Upon successful completion of this course the student will possess the ability to:

1. Pass the FAA Multi-Engine rating flight test.
2. Operate safely as a Multi-Engine rated pilot within the federal airway system.
3. Operate competently as a flight crew member on the CRJ Flight Training Device.

This syllabus developed by: David Walsh date: 03/15/04 .

This syllabus reviewed by: _____ date: _____ .