TO: Undergraduate Curriculum Committee
FROM: Dr. K. E. Crooks
THROUGH: Dr. Michael K. Karim, Dean, College of Aeronautics
DATE: February 14, 2006
SUBJECT: ADDING NEW COURSES TO THE CURRICULUM

The following flight courses are proposed as individual new flight elective courses. Each has previously been offered under AVF 4090, Special Topics in Flight Training.

AVF 3005 Technically Advanced Instrument Flight Training 2 Credits
AVF 3006 High Performance Airplane Transition Training 1 Credit
AVF 3009 Intermediate Aerobatic Flight Course 1 Credit
AVF 3010 International Operations 1 Credit
AVF 3012 Conventional Gear Aircraft Training Course 1 Credit
AVF 4006 Advanced Multi-Engine Crew Operations 2 Credits

**AVF 3005 Technically Advanced Instrument Flight Training**

The syllabus for AVF 3005 is similar in structure to the two semester course AVF 3004 Complex Instrument Flight Training. AVF 3005 will allow an appropriately rated (instrument, airplane single engine land) pilot to acquire the knowledge, proficiency, and experience required to perform operations in a Technically Advanced Aircraft including instrument procedures. A Technically Advanced Aircraft is a state-of-the-art aircraft which uses computer-generated displays and advanced computer systems instead of the traditional round-dial displays. In contrast, AVF 3004 is a transition course which provides the training and experience required to perform instrument operations in a mechanically-complex aircraft.
In AVF 3005, the student will learn the aerodynamics of technically advanced aircraft, operational procedures, systems and performance considerations. The student will learn to compute weight and balance and performance factors for technically advanced airplanes. The student will learn the principles, techniques, and procedures which apply to Technically Advanced Aircraft and those not limited to the primary flight display, real time moving map, terrain avoidance, weather data, flight planning and RNAV navigation and approaches, engine monitoring systems, and electronic check lists. The student will develop the skills necessary to operate a Technically Advanced Aircraft in instrument conditions and with inoperative systems and equipment.

The course is made up of a total of fifteen lessons and includes 33.5 contact hours of one-on-one instruction. Six lessons are formal classroom sessions. Seven lessons are dual flight training, and two lessons are for evaluations. The students' performance will be evaluated based on the criteria in the current FAA Instrument Airplane Practical Test Standards.

**AVF 3006 High Performance Transition Training**

AVF 3006 will allow an appropriately rated pilot to acquire the knowledge, proficiency, and experience required to receive a high performance endorsement as specified in FAR 61.31(f). The performance criteria specified in the syllabus is based on applicable FAA Private Pilot (ASEL) or FAA Commercial Pilot (ASEL) Practical Test Standards.

AVF 3006 is made up of a total of five lessons and includes 10.0 contact hours of one-on-one instruction. Two lessons are formal classroom sessions. Three lessons are dual flights training, one of which is a cross country flight. The student’s performance will be evaluated based on the criteria in the current FAA instrument Airplane Practical Test Standards.
The aircraft expected to be done in the SR22, a technically advanced aircraft. However, this training does not require a technically advanced aircraft and is not sufficient for the pilot to be proficient flying a technically advanced aircraft.

**AVF 3009 Intermediate Aerobatic Flight Course**

The Intermediate Aerobatic Flight Training Course is designed as a continuation to the Basic Aerobatic Training Course, AVF 3008. Its design will allow a student with basic aerobatic skills to develop those skills to a higher level of proficiency and to utilize their learned skills to fly aerobatic routines.

AVF 3009 is made up of a total of ten lessons and includes 13.5 contact hours of one-on-one instruction. Three lessons are formal classroom sessions. Seven lessons are dual flights training. The performance criteria specified in the syllabus is based on the average progression of a student with limited aerobatic training.

**AVF 3010 International Operations**

AVF 3010 is designed to allow an appropriately rated pilot to acquire the knowledge, proficiency, and experience required to operate on an international level. The student will learn international flight planning relevant FAA, FCC, US Customs & Bahamas regulations, the procedures to obtain and complete forms for foreign and local governments, normal and emergency procedures for extended over water operation, and obtaining international weather briefing. The student will then apply the knowledge on a three part cross country trip, flying into the Bahamas, within the Bahamas, and then returning to the United States.
AVF 3010 is made up of a total of five lessons and includes 11.5 contact hours of one-on-one instruction. Two lessons are formal, 2-hour classroom sessions. Three lessons are dual flights training. The student’s performance will be evaluated based on the criteria in the current FAA Instrument Airplane Practical Test Standards.

**AVF 3012 Conventional Gear Aircraft Training Course**

The Conventional Gear Aircraft Training Course, flight training syllabus is designed to transition a Private Pilot Certificated (or higher) pilot from tricycle gear aircraft to conventional/tailwheel type aircraft. AVF 3012 will allow an appropriately rated pilot to acquire the knowledge, proficiency, and experience required to receive a tailwheel endorsement as specified in FAR 61.31 (i).

AVF 3102 is made up of a total of twelve lessons and includes 20.0 contact hours of one-on-one instruction. Two lessons are formal classroom sessions. Ten lessons are dual flights training. The student’s performance will be evaluated based on the criteria in the current FAA private pilot Airplane Practical Test Standards.

**AVF 4006 Advanced Multi-Engine Crew Operations**

The Advanced Multi-Engine Crew Operations Course is designed to allow two appropriately rated AMEL Commercial Pilots to acquire the knowledge, proficiency, and experience required to gain experience for their career. The lessons allow the students to execute long cross country flights in a crew environment and to gain experience with a variety of airspace, terrain and situations not available in the local area. Lessons specify minimum routes lengths of 100nm or 250nm. Lessons do not have to originate at Melbourne, so that long distance can be achieved.
Adding New Courses to the Curriculum

Each lesson includes an objective and a completion standard. The lessons are designed to alternate command responsibilities, between the two pilots, as Pilot in Command (PIC) and Second in Command (SIC) sharing the workload of the flight. Each pilot shall conduct a checkout with the supervising instructor, and one each as both PIC and SIC as follows: one VFR day flight, one VFR night flight, one IFR day flight, one IFR night flight, and one optional flight as PIC and SIC, for a total of ten flights.

The course is designed as a practicum with instructor supervision. Prior to the crew flights, the pilot must complete the lesson which is a check out in the aircraft with the supervising instructor. Each lesson is 5 hours of flight with a small amount of time for the instructor to review the planning of the pilots. The planning for these lessons will require significant time. The total time the student invests in this course will be in excess of 100hrs. This is why this is a 2 credit course with a pass/fail grade.

This course requires two pilots. The course cannot be offered unless there are at least two students enrolling in AVF 4006 at the same time. Therefore, two students who enroll in the course will be paired.

AVF 4006 meets or exceeds the requirements of 14 CFR Part 141, Appendix K (9).

KEC/sy
Florida Institute of Technology

This course is available for student registration only after the approval process has been completed.

Subject AVE
Alpha Prefix (e.g., CSE) Course No. 3006 Credit Hours 2 Term to be added to the file Summer 2006
Number Choice (e.g., 1301)

Class Hours 33.5 hr Lecture Hours 17.0 hr Lab Hours 16.5 hr Contact Hours (CEU only) 

Department College of Aeronautics Schedule Type Flight
(e.g., Computer Sciences)

College/School 
☐ College of Aeronautics—23 ☐ College of Psychology and Liberal Arts—25
☐ College of Business—24 ☐ College of Science—26
☐ College of Engineering—01 ☐ University College/SEGSD—90

Computer Title (restricted to 25 spaces, including blanks) Technically Adv Instrumem

Catalog Title Technically Advanced Instrument Flight Training

Catalog Description of Course (limited to 350 characters, including spaces)
Provides ground and flight training required for a pilot to acquire the knowledge and experience needed to proficiently conduct IFR operations in a technically advanced aircraft. The technically advanced aircraft includes primary flight display, multifunction display and GPS navigation system. (Requirement: FAA Instrument Rating.)

In addition, you may attach a course syllabus and/or more detailed description.

Restrictions ☐ Prerequisite (course number) ☐ Corequisite (course number) Grades to be issued ☐ A, B, C, D, F
☐ Prerequisite (course number) ☐ Corequisite (course number) ☐ S, U
☐ Prerequisite (course number) ☐ Corequisite (course number) ☐ P, F
☐ Other

Additional Restriction Instrument-rated FAA Pilot
(e.g., major, class level, department head approval)

If this course replaces a course currently offered in BANNER, please indicate old course information

Subject Alpha Prefix (e.g., CSE) Course No. (e.g., 1301)

APPROVALS
Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

Chair, Graduate Council Date

Chair, Undergraduate Curriculum Committee Date

CATALOG COORDINATOR
Catalog Coordinator Date

REGISTRAR’S USE ONLY
SCACRSE SCADETL SCAPREQ SCABASE
SCARRS Date
Operator Int

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8136 • Fax (321) 674-7827
RG-134-305
F.I.T. AVIATION, L.L.C.

APPROVED SCHOOL CERTIFICATE #ECQS467D

TECHNICALLY ADVANCED INSTRUMENT FLIGHT TRAINING SYLLABUS

Florida Institute of Technology
College of Aeronautics Course:

AVF- 3005
GAFS- 3005

PRINT STUDENT NAME:

____________________________
Last Name, First Name

January 2006

This publication was compiled and edited by the Flight Training Division at F.I.T. Aviation, LLC.
INTRODUCTION

The Technically Advanced Aircraft Flight Training Course- ASEL- flight training syllabus is designed to meet or exceed the requirements of 14 CFR Part 141, Appendix K (9). Its design will allow an appropriately rated ASEL Private or Commercial Pilot to acquire the knowledge, proficiency, and experience required to perform operations in a Technically Advanced Aircraft. The performance criteria specified in the syllabus is based on the current FAA Instrument Airplane Practical Test Standards.

This flight training syllabus includes a total of fifteen (15) separate lessons. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson times are not mandatory and are included at the top of each lesson for flight instructor and student guidance only. However, before graduation from the course, a student must meet the following minimum training hours:

<table>
<thead>
<tr>
<th>Total Contact Time</th>
<th>Dual Flight Training</th>
<th>Ground Training</th>
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Additional training requirements that must also be accomplished before graduation are included within the completion standards as appropriate for that lesson.

Lesson sequence may be adjusted as necessary to accommodate training continuity problems. This is permitted as long as training objectives are not compromised.

Lesson elements will be complete when the instructor assigns a check mark (✓) to that element. Any elements that need practice will be left blank until they satisfy the lesson completion standards. Dual lessons should be preceded and followed by pre and post flight briefings as appropriate. Although there are no required times for the pre and post flight briefings, they must be sufficient to ensure that the student understands the lesson objectives and completion standards for each lesson.

Every lesson contains a detailed list of elements that the student must successfully complete. Normally a lesson is expected to be satisfactorily completed within the recommended time; however, if a student is unable to master the lesson in that time, it will be necessary to repeat those elements that need practice.

The final lesson of the flight training syllabus is an hour and a half (1.5) hour stage check in which the student will show proficiency in a Technically Advanced Aircraft. This lesson is designed to simulate an actual IFR flight in which the pilot is tasked with a high workload based on instrument and weather abnormalities.
TRAINING SYLLABUS

Enrollment Prerequisites: The applicant must hold a current Private or Commercial Pilot Certificates with an Airplane Instrument rating prior to beginning the flight portion of the course.

Ground Training Requirements: The applicant must successfully complete all the required ground training lessons.

Flight Training Requirements: The applicant must successfully complete all the flight training lessons.

Requirements for Graduation: To obtain a graduation certificate for the Technically Advanced Aircraft (ASEL), the applicant must:

A. Hold a current Private or Commercial Pilot Certificate with ASEL Instrument ratings.
B. Be able to read, speak, write and understand the English language.
C. Complete all ground training requirements.
D. Complete all flight training requirements
E. Hold a valid and current FAA medical certificate.

GRADING CRITERIA

FOR THE STUDENT AND INSTRUCTOR:

The overall performance grade for each lesson completed is based on the knowledge, preparation, skill, attitude and judgment of the student.

The standards to be used on the lessons should be at least those specified in the appropriate FAA Instrument (Airplane) Practical Test Standards as appropriate.

The student should be evaluated on performance, both in academic ability as well as flying ability. A lesson is not complete until the instructor is satisfied that the student’s performance meets the completion standards in all areas. All elements on lessons must be graded with a check mark (✓) for the lesson to be complete.
Syllabus Objective

The student will learn technically advanced aircraft aerodynamics, operational procedures, systems and performance considerations. The student will learn to compute weight and balance and performance factors for technically advanced airplanes. The student will also learn the principles, techniques, and procedures which apply to Technically Advanced Aircraft and those installed with an airframe parachute system. The student will further develop the skills necessary to operate a Technically Advanced Aircraft in instrument conditions with inoperative systems and equipment.

Syllabus Completion Standards

At the completion of this syllabus, the student shall perform each of the listed areas of operation and tasks at a proficiency level that meets the criteria outlined in the current FAA Instrument Practical Test Standards.
## RECOMMENDED TOTALS

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This course is available for student registration only after the approval process has been completed.

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| Class Hours | 10.0 hr | Lecture Hours | 4.0 hr | Lab Hours | 6.0 hr | Contact Hours (CEU only) |

| Department | College of Aeronautics | (e.g., Computer Sciences) | Schedule Type | Flight | (e.g., lecture, lab or special project) |

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<th>Catalog Description of Course</th>
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<td>Includes ground and flight training designed to qualify pilots in a high-performance aircraft. Provides pilots with the proficiency and experience needed to safely operate a high-performance aircraft and obtain a high-performance endorsement. (Requirement: FAA Private Pilot Certificate.)</td>
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In addition, you may attach a course syllabus and/or more detailed description.

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<td>(e.g., major, class level, department head approval)</td>
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If this course replaces a course currently offered in BANNER, please indicate old course information.

<table>
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<th>Subject</th>
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**APPROVALS**

Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

Chair, Graduate Council

Date

OR

Chair, Undergraduate Curriculum Committee

Date

**CATALOG COORDINATOR**

Catalog Coordinator

Date

**REGISTRAR’S USE ONLY**

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Operator Init

Date
F.I.T. AVIATION, L.L.C.

APPROVED SCHOOL CERTIFICATE #ECQS467D

HIGH PERFORMANCE AIRPLANE COURSE
AIRPLANE SINGLE ENGINE LAND (ASEL)
FLIGHT TRAINING SYLLABUS

Florida Institute of Technology
College of Aeronautics Course:

AVF - 3006
GAFS - 3006

PRINT STUDENT NAME:

____________________________________
Last Name, First Name

January 2006

This publication was compiled and edited by the Flight Training Division at F.I.T. Aviation, LLC.
INTRODUCTION

The High Performance Operations Course – ASEL - flight training syllabus is designed to meet or exceed the requirements of 14 CFR Part 141, Appendix K (9). Its design will allow an appropriately rated pilot to acquire the knowledge, proficiency, and experience required to receive a high performance signoff. The performance criteria specified in the syllabus is based on applicable FAA Private Pilot (ASEL) or FAA Commercial Pilot (ASEL) Practical Test Standards.

This flight training syllabus includes a total of five (5) separate lessons. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson times are not mandatory and are included at the top of each lesson for flight instructor and students guidance only. However, before graduation from the course, the student’s must meet the following minimum training hours:

<table>
<thead>
<tr>
<th>Total Contact Hours</th>
<th>Ground Training</th>
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Additional training requirements that must also be accomplished before graduation are included within the completion standards as appropriate for that lesson.

Lesson sequence may be adjusted as necessary to accommodate training continuity problems. This is permitted as long as training objectives are not compromised.

Lesson elements will be complete when the instructor assigns a check mark (✓) to that element. Any elements that need practice will be left blank until the lesson completion standards are satisfied.

Every lesson contains a detailed list of elements that the student must successfully complete. Normally a lesson is expected to be satisfactorily completed within the recommended time; however, if the student is unable to master the lesson in that time, it will be necessary to repeat those elements that need practice.
TRAINING SYLLABUS

Enrollment Prerequisites: The applicant must hold current Private Pilot or Commercial Pilot Certificate with Airplane Single-Engine Land category and class ratings.

Ground Training Requirements: The student must successfully complete all the required ground training lessons.

Flight Training Requirements: The applicant must successfully complete all the flight training lessons.

Requirements for Graduation: To obtain a graduation certificate for the High Performance Course (ASEL), the applicants must:
   A. Hold current Private Pilot Certificate or Commercial Pilot Certificates with ASEL category and class ratings.
   B. Be able to read, speak, write and understand the English language.
   C. Complete all ground training requirements.
   D. Complete all flight training requirements
   E. Hold a valid and current FAA medical certificate.

GRADING CRITERIA

FOR THE STUDENT'S AND INSTRUCTOR:

The standards to be used on the lessons should be at least those specified in the appropriate FAA Private or Commercial (ASEL) Practical Test Standards as appropriate.

A lesson is not complete until the applicants have satisfied the completion standards in all areas of a lesson. All elements on lessons must be graded with a check mark (✓) for the lesson to be complete.
## FLIGHT TRAINING WORKSHEET

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* Any Aircraft may be substituted that meets the requirements of this course.
Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

This course is available for student registration only after the approval process has been completed.

Subject AVF Course No. 3009 Credit Hours 1 Term to be added to the file Summer 2006
Alpha Prefix (e.g., CSE) Number Choice (e.g., 1301) (e.g., Fall 2005)

Class Hours 13.5 hr Lecture Hours 6.5 hr Lab Hours 7.0 hr Contact Hours (CEU only)

Department College of Aeronautics Schedule Type Flight
(e.g., Computer Sciences) (e.g., lecture, lab or special project)

College/School
☑ College of Aeronautics—23 ☐ College of Psychology and Liberal Arts—25
☐ College of Business—24 ☐ College of Science—26
☐ College of Engineering—01 ☐ University College/SEG—90

Computer Title (restricted to 25 spaces, including blanks) Intermediate Aerobatic

Catalog Title Intermediate Aerobatic Flight

Catalog Description of Course (limited to 350 characters, including spaces)
Continues the basic aerobatic training course. Allows a student with basic aerobatic skills to develop those skills to a higher level of proficiency in order to fly aerobatic routines. (Requirement: Prerequisite course or program chair approval.)

In addition, you may attach a course syllabus and/or more detailed description.

Restrictions ☑ Prerequisite AVF 3008 ☐ Corequisite (course number)
☐ Prerequisite (course number) ☐ Corequisite (course number)
☐ Prerequisite (course number) ☐ Corequisite (course number)

Grades to be issued ☑ A, B, C, D, F ☐ S, U
☐ P, F ☐ Other

Additional Restriction or Program Chair Approval
(e.g., major, class level, department head approval)

If this course replaces a course currently offered in BANNER, please indicate old course information

Subject Alpha Prefix (e.g., CSE) Course No. (e.g., 1301)

APPROVALS

Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

Chair, Graduate Council Date OR
Chair, Undergraduate Curriculum Committee Date

Dean of Associate Dean Date

CATALOG COORDINATOR

Catalog Coordinator Date

REGISTRAR’S USE ONLY

SCACRSE SCADETL SCAPREQ SCABASE
Operator Init Date

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RG-134-3051
F.I.T. AVIATION, L.L.C.

INTERMEDIATE AEROBATIC
FLIGHT TRAINING SYLLABUS

Florida Institute of Technology
College of Aeronautics Course:

AVF-3009
GAFS-3009

PRINT STUDENT NAME:

_______________________________________
Last Name, First Name

January 2006

This publication was compiled and edited by the Flight Training Division at
F.I.T. Aviation, L.L.C.
INTRODUCTION

The Intermediate Aerobatic Flight Training Course is designed as a continuation to the Basic Aerobatic Training Course. Its design will allow a student with basic aerobatic skills to develop those skills to a higher level of proficiency and to utilize their learned skills to fly aerobatic routines. The performance criteria specified in the syllabus is based on the average progression of a student with limited aerobatic training.

This flight training syllabus includes a total of ten (10) separate lessons. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson times are not mandatory and are included at the top of each lesson for flight instructor and student guidance only.

<table>
<thead>
<tr>
<th>Total Contact Hours</th>
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<th>Ground Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.5</td>
<td>7.0</td>
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</tr>
</tbody>
</table>

Lesson elements will be complete when the instructor assigns a check mark (✓) to that element. Any elements that need practice will be left blank until they satisfy the lesson completion standards. Dual lessons should be preceded and followed by pre and post flight briefings as appropriate. Although there are no required times for the pre and post flight briefings, they must be sufficient to ensure that the student understands the lesson objectives and completion standards for each lesson.

Every lesson contains a detailed list of elements that the student must successfully complete. Normally a lesson is expected to be satisfactorily completed within the recommended time; however, if a student is unable to master the lesson in that time, it will be necessary to repeat those elements that need practice.
F.I.T. AVIATION, LLC                     INTERMEDIATE AEROBATIC TRAINING COURSE

TRAINING SYLLABUS

Enrollment Prerequisites: The applicant must hold a current Private Pilot Certificate or Commercial Pilot Certificate with an Airplane Single Engine Land category and class rating and must have successfully completed the Basic Aerobatic Training Course prior to beginning the course.

Ground Training Requirements: The applicant must successfully complete all the required ground training lessons.

Flight Training Requirements: The applicant must successfully complete all the flight training lessons.

Requirements for Course Completion: To successfully complete the Intermediate Aerobatic Training Course, the applicant must:
   A. Hold a current Private or Commercial Pilot Certificate with ASEL category and class ratings.
   B. Be able to read, speak, write and understand the English language.
   C. Complete all ground training requirements.
   D. Complete all flight training requirements
   E. Hold a valid and current FAA medical certificate.

GRADING CRITERIA

FOR THE STUDENT AND INSTRUCTOR:

The overall performance grade for each lesson completed is based on the knowledge, preparation, skill, attitude and judgment of the student.

The standards to be used on the lessons should be at least those specified in that particular lesson outline in this syllabus.

The student should be evaluated on performance, both in academic ability as well as flying ability. A lesson is not complete until the instructor is satisfied that the student’s performance meets the completion standards in all areas. All elements on lessons must be graded with a check mark (✓) for the lesson to be complete.

REFERENCE MATERIAL

Citabria (7ECA) Pilot’s Operating Handbook

Intermediate Aerobatics Syllabus
January 2006

FAA Approved:

Date:

Orlando FSDO-15
# RECOMMENDED TOTALS

## FLIGHT TRAINING WORKSHEET

<table>
<thead>
<tr>
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<td></td>
<td></td>
<td>7.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>
This course is available for student registration only after the approval process has been completed.

Subject AVF  
Alpha Prefix (e.g., CSE)  
Course No. 3010  
Number Choice (e.g., 1301)  
Credit Hours 1  
Term to be added to the file Summer 2006  
(e.g., Fall 2005)  
Class Hours 11.5 hr  
Lecture Hours 5.5 hr  
Lab Hours 6.0 hr  
Contact Hours (CEU only)  
Department College of Aeronautics  
(e.g., Computer Sciences)  
Schedule Type Flight  
(e.g., lecture, lab or special project)  
College/School  
☑ College of Aeronautics–23  
☐ College of Business–24  
☐ College of Science–26  
☐ University College/SEGS–90  
Computer Title (restricted to 25 spaces, including blanks) International Operations  
Catalog Title International Flight Operations Training  
Catalog Description of Course (limited to 350 characters, including spaces) Includes ground and flight training needed to fly outside the United States. Covers relevant regulations of FAA, FCC, U.S. Customs and the Bahamas government; overwater operations; obtaining international weather; and international flight planning. (Requirement: FAA Instrument Rating.)  
In addition, you may attach a course syllabus and/or more detailed description.  
Restrictions  
☐ Prerequisite (course number)  
☐ Corequisite (course number)  
☐ Prerequisite (course number)  
☐ Corequisite (course number)  
☐ Prerequisite (course number)  
☐ Corequisite (course number)  
Grades to be issued  
☐ A, B, C, D, F  
☐ S, U  
☐ P, F  
☐ Other  
Additional Restriction Instrument-rated FAA Pilot  
(e.g., major, class level, department head approval)  
If this course replaces a course currently offered in BANNER, please indicate old course information  
Subject AVF (e.g., CSE)  
Course No. (e.g., 1301)  
 Grades to be issued  
☐ A, B, C, D, F  
☐ S, U  
☐ P, F  
☐ Other  
In addition, you may attach a course syllabus and/or more detailed description.

APPROVALS
Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

Chair, Graduate Council  
Date  
Chair, Undergraduate Curriculum Committee  
Date

CATHOLIC COORDINATOR  
Catalog Coordinator  
Date

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SCARRES  
Operator Init  
Date

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Fax (321) 674-7827
F.I.T. AVIATION, L.L.C.

APPROVED SCHOOL CERTIFICATE #ECQS467D

INTERNATIONAL OPERATIONS COURSE

FLIGHT TRAINING SYLLABUS

Florida Institute of Technology
College of Aeronautics Course:

AVF - 3010
GAFS - 3010

PRINT STUDENT NAME:

________________________________________
Last Name, First Name

January 2006

This publication was compiled and edited by the Flight Training Division at F.I.T. Aviation, LLC.
INTRODUCTION

The International Operations Course – ASEL - flight training syllabus is designed to meet or exceed the requirements of 14 CFR Part 141, Appendix K (9). Its design will allow an appropriately rated pilot to acquire the knowledge, proficiency, and experience required to operate on an international level. The flight training will be based on flying into and within the Bahamas and returning to the United States. The performance criteria specified in the syllabus is based on applicable FAA Private Pilot (ASEL) or FAA Commercial Pilot (ASEL) Airplane Practical Test Standards.

This flight training syllabus includes a total of five (5) separate lessons. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson times are not mandatory and are included at the top of each lesson for flight instructor and students guidance only. However, before graduation from the course, the student’s must meet the following minimum training hours:

<table>
<thead>
<tr>
<th>Total Contact Hours</th>
<th>Dual Flight Hours</th>
<th>Ground training Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.5</td>
<td>6.0</td>
<td>5.5</td>
</tr>
</tbody>
</table>

Additional training requirements that must also be accomplished before graduation are included within the completion standards as appropriate for that lesson.

Lesson sequence may be adjusted as necessary to accommodate training continuity problems. This is permitted as long as training objectives are not compromised.

Every lesson contains a detailed list of elements that the student must successfully complete. Normally a lesson is expected to be satisfactorily completed within the recommended time; however, if the student is unable to master the lesson in that time, it will be necessary to repeat those elements that need practice.

* Any aircraft can be substituted to complete course requirements.
TRAINING SYLLABUS

Enrollment Prerequisites: The applicant must hold a current Private Pilot or Commercial Pilot Certificate with Airplane Single-Engine Land category and class ratings.

Ground Training Requirements: The applicant must successfully complete all the required ground training lessons.

Flight Training Requirements: The applicant must successfully complete all the flight training lessons.

Requirements for Graduation: To obtain a graduation certificate for the International Operations Course (ASEL), the applicants must:
   A. Hold a current Private Pilot Certificate or Commercial Pilot Certificate with ASEL category and class ratings.
   B. Be able to read, speak, write and understand the English language.
   C. Complete all ground training requirements.
   D. Complete all flight training requirements.
   E. Hold a valid and current FAA medical certificate.

GRADING CRITERIA

The overall performance grade for each lesson completed is based on the knowledge, preparation, skill, attitude and judgment of the student.

The standards to be used on the lessons should be at least those specified in that particular lesson outline in this syllabus.

The student should be evaluated on performance, both in academic ability as well as flying ability. A lesson is not complete until the instructor is satisfied that the student's performance meets the completion standards in all areas. All elements on lessons must be graded with a check mark (✓) for the lesson to be complete.
## Recommended Totals

<table>
<thead>
<tr>
<th>Lesson</th>
<th>Date</th>
<th>Time</th>
<th>A/C</th>
<th>Dual</th>
<th>GRD</th>
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</thead>
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<tr>
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<td>.5</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>6.0</td>
<td>5.5</td>
</tr>
</tbody>
</table>

* Any aircraft can be substituted to complete course.
This course is available for student registration only after the approval process has been completed.

Subject: AVF  
Course No.: 3012  
Credit Hours: 1  
Term to be added to the file: Summer 2006

Class Hours: 20.0 hr.  
Lecture Hours: 8.0 hr.  
Lab Hours: 12.0 hr.  
Contact Hours (CEU only)

Department: College of Aeronautics  
(e.g., Computer Sciences)

Schedule Type: Flight  
(e.g., lecture, lab or special project)

College/School:  
School: College of Aeronautics—23  
College of Psychology and Liberal Arts—25

(Please check appropriate box)

College of Business—24  
College of Science—26

College of Engineering—01  
University College/SEGS—90

Computer Title: Conventional Gear

Catalog Title: Conventional Gear Transition Training

Catalog Description of Course: (limited to 350 characters, including spaces)
Includes ground and flight training designed to qualify pilots in conventional/tailwheel-type aircraft. Provides pilots with the proficiency and experience needed to safely operate a conventional gear aircraft and obtain a tailwheel endorsement. (Requirement: FAA Private Pilot Certificate.)

In addition, you may attach a course syllabus and/or more detailed description.

Restrictions:  
□ Prerequisite ____________________________  
□ Corequisite ____________________________

□ Prerequisite ____________________________  
□ Corequisite ____________________________

□ Prerequisite ____________________________  
□ Corequisite ____________________________

Grades to be issued:  
□ A, B, C, D, F  
□ S, U  
□ P, F  
□ Other ____________________________

Additional Restrictions:  
FAA Pilot, Single engine  
(e.g., major, class level, department head approval)

If this course replaces a course currently offered in BANNER, please indicate old course information

Subject: AVF  
Course No.: 3012  
Course No. (e.g., 1301)

APPROVALS
Upon completion of appropriate department approvals, submit form to Chair, Graduate Council,  
or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

Chair, Graduate Council  
Date  
1/11/06

OR

Chair, Undergraduate Curriculum Committee  
Date  
1/11/06

Florida Institute of Technology  
Office of the Registrar

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CONVENTIONAL GEAR AIRCRAFT
FLIGHT TRAINING SYLLABUS

Florida Institute of Technology
College of Aeronautics Course:
AVF-3012
GAFS-3012

PRINT STUDENT NAME:

________________________________________
Last Name, First Name

February 2006

This publication was compiled and edited by the Flight Training Division at
F.I.T. Aviation, LLC.
INTRODUCTION

The Conventional Gear Aircraft Training Course, flight training syllabus is designed to transition Private Pilot Certificated (or higher) pilots from tricycle gear aircraft to conventional/tailwheel type aircraft and meets the requirements of 14 CFR 61.31 (i). Its design will allow an enrolled pilot to acquire the proficiency and experience needed to safely operate a conventional gear aircraft and obtain a tailwheel endorsement.

This syllabus and the amount of flight time in it, meets most insurance requirements. The syllabus consists of 10 dual flight lessons and 2 ground lessons, with total recommended training times shown in the table below. In reality, experience has shown that it takes between 12 to 15 hours to check most pilots out in conventional gear aircraft. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson times are not mandatory and are included at the top of each lesson for flight instructor and student guidance only.

<table>
<thead>
<tr>
<th>Total Contact Time</th>
<th>Dual Flight Training</th>
<th>Ground Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.0</td>
<td>12.0</td>
<td>8.0</td>
</tr>
</tbody>
</table>

Lesson elements will be complete when the instructor assigns a check mark (√) to that element. Any elements that need practice will be left blank until they satisfy the lesson completion standards. All lessons should be preceded and followed by pre and post flight briefings as appropriate. Although there are no required times for the pre and post flight briefings, they must be sufficient to ensure that the student understands the lesson objectives and completion standards for each lesson.

Every lesson contains a detailed list of elements that the student must successfully complete. It is not the intent of this syllabus that each item has to be accomplished in the exact order listed; rather, the flight instructor should use this as a guide to assure proper coverage of all maneuvers. Normally a lesson is expected to be satisfactorily completed within the recommended time; however, if a student is unable to master the lesson in that time, it will be necessary to repeat those elements that need practice.
TRAINING SYLLABUS

Enrollment Prerequisites: The applicant must hold a current Private Pilot certificate or higher and a valid Third Class medical certificate prior to beginning the flight course. Prior to completing the Conventional Gear Aircraft Training Course, the student must meet the completion standard of each lesson and the flight instructor must be satisfied that the student possess the knowledge and skill necessary to safely and competently operate a conventional gear aircraft.

Ground Training Requirements: The applicant must successfully complete all the required ground training lessons in this syllabus.

Flight Training Requirements: The applicant must successfully complete all the flight training lessons in this syllabus.

Requirements for Course Completion: To successfully complete the Conventional Gear Aircraft Training Course, the applicant must:

A. Hold a current Private or Commercial Pilot Certificate with ASEL category and class ratings.
B. Be able to read, speak, write and understand the English language.
C. Complete all ground training requirements.
D. Complete all flight training requirements
E. Hold a valid and current FAA medical certificate.

GRADING CRITERIA

FOR THE STUDENT AND INSTRUCTOR:

The overall performance grade for each lesson completed is based on the knowledge, preparation, skill, attitude and judgment of the student.

The student should be evaluated on performance, both in academic ability as well as flying ability. Each element on a lesson must be graded with a check mark (✓) when that element is satisfactorily completed. A lesson is not complete until the instructor is satisfied that the student’s performance meets the completion standards in all areas and each element is graded with a check mark (✓).

At the completion of this course the instructor will endorse the students logbook per 14 CFR 61.31 (i). The endorsement should read:

I certify that (First name, MI, Last name), (pilot certificate), (certificate number), has received the required training of §61.31(i) in a (make and model of tailwheel airplane). I have determined that he/she is proficient in the operation of a tailwheel airplane.

Signature, date, print name, CFI number, expiration date
# Recommended Totals

## Flight Training Worksheet

<table>
<thead>
<tr>
<th>Lesson</th>
<th>Date</th>
<th>Time</th>
<th>Aircraft Type</th>
<th>Dual</th>
<th>Ground</th>
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This course is available for student registration only after the approval process has been completed.

Subject AVF
Course No. 4006
Credit Hours 2
Term to be added to the file Summer 2006

Class Hours 53.8 hr
Lecture Hours 3.8 hr
Lab Hours 50.0 hr
Contact Hours (CEU only) ______________________________________

Department College of Aeronautics
(e.g., Computer Sciences)
Schedule Type Flight
(e.g., lecture, lab or special project)

College/School
☐ College of Aeronautics–23
☐ College of Business–24
☐ College of Engineering–01
☐ College of Psychology and Liberal Arts–25
☐ College of Science–26
☐ University College/SEG–90

Computer Title (restricted to 25 spaces, including blanks) Adv Multiengine Crew Ops

Catalog Title Advanced Multiengine Crew Operations

Catalog Description of Course (limited to 350 characters, including spaces)
Applies previous training under supervision to plan and execute extended cross-country flights to busy air terminals within the U.S. Uses pilot-in-command and second-in-command crew structure. Provides experience with a variety of airspace, terrain, weather and situations. (Requirement: Program chair approval.)

In addition, you may attach a course syllabus and/or more detailed description.

Restrictions ☐ Prerequisite AVF 4003 (course number)
☐ Prerequisite ____________________________
☐ Prerequisite ____________________________
☐ Prerequisite ____________________________

☐ Corequisite ____________________________
☐ Corequisite ____________________________
☐ Corequisite ____________________________

Grades to be issued ☐ A, B, C, D, F
☐ S, U
☐ P, F
☐ Other ____________________________

Additional Restriction Program Chair approval (e.g., major, class level, department head approval)

If this course replaces a course currently offered in BANNER, please indicate old course information

Subject Alpha Prefix (e.g., CSE) ____________ Course No. (e.g., 1301) ____________

APPROVALS

Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Coordinator.

Chair, Graduate Council Date

Chair, Undergraduate Curriculum Committee Date

CATALOG COORDINATOR

Catalog Coordinator ____________________________ Date ____________________________

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SCARRES ____________________________ Operator Init ____________________________ Date ____________________________

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ADVANCED MULTI-ENGINE CREW OPERATIONS

AIRPLANE MULTIENGINE LAND (AMEL)

FLIGHT TRAINING SYLLABUS

Florida Institute of Technology
College of Aeronautics Course:

AVF- 4006
GAFS- 4006

PRINT STUDENT NAME:

Last Name, First Name (Pilot 1)

Last Name, First Name (Pilot 2)

January 2006

This publication was compiled and edited by the Flight Training Division at
F.I.T. Aviation, LLC.
INTRODUCTION

The Advanced Multi-Engine Crew Operations Course – AMEL - flight training syllabus is designed to meet or exceed the requirements of 14 CFR Part 141, Appendix K (9). Its design will allow two appropriately rated AMEL Commercial Pilots to acquire the knowledge, proficiency, and experience required to further promote their career. The performance criteria specified in the syllabus is based on the current FAA Commercial Pilot (AMEL) and Instrument Airplane Practical Test Standards.

This flight training syllabus includes a total of eleven (11) separate lessons. Each lesson includes an objective and a completion standard. Each completion standard must be met in its entirety before that lesson may be considered complete. The individual lesson times are not mandatory and are included at the top of each lesson for flight instructor and students guidance only. However, before graduation from the course, the student’s must meet the following minimum training hours:

<table>
<thead>
<tr>
<th>Total Hours</th>
<th>Ground Instruction</th>
<th>Dual Flight Instruction, per pilot</th>
<th>Crew Hours Airplane Multi-Engine</th>
</tr>
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Every lesson contains a detailed list of elements that the student’s must successfully complete. Normally a lesson is expected to be satisfactorily completed within the recommended time; however, if the student’s are unable to master the lesson in that time, it will be necessary to repeat those elements that need practice.

The lessons are designed to alternate command responsibilities, between the two pilots, as Pilot In Command (PIC) and Second In Command (SIC) sharing the workload of the flight. Each pilot shall conduct a checkout with the supervising instructor, and one each as both PIC and SIC as follows: one VFR day flight, one VFR night flight, one IFR day flight, one IFR night flight, and one optional flight as PIC and SIC, for a total of ten flights.
TRAINING SYLLABUS

Enrollment Prerequisites: The applicants must hold a current Commercial Pilot Certificate with Airplane Multi-Engine Land category and class rating prior to beginning the flight portion of the course.

Ground Training Requirements: The applicants must successfully complete all the required ground training lessons.

Flight Training Requirements: The applicants must successfully complete all the flight training lessons.

Requirements for Graduation: To graduate from the Advanced Multi-Engine Crew Operations Course (AMEL), the applicants must:
A. Hold a current Commercial Pilot Certificate with AMEL category and class rating.
B. Be able to read, speak, write and understand the English language.
C. Complete all ground training requirements.
D. Complete all flight training requirements
E. Hold a valid and current FAA medical certificate.

GRADING CRITERIA

FOR THE STUDENT AND INSTRUCTOR:

The standards to be used on the lessons should be at least those specified in the appropriate FAA Commercial (AMEL) and Instrument (Airplane) Practical Test Standards as appropriate.

A lesson is not complete until the applicants have satisfied the completion standards in all areas of a lesson. All elements on lessons must be graded by the supervising CFI with a check mark (✓) for the lesson to be complete.
### RECOMMENDED TOTALS

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<th>Pilot 2 PIC</th>
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<th>VFR Night</th>
<th>IFR Day</th>
<th>IFR Night</th>
<th>Ground</th>
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### ACTUAL TOTALS

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