SIUC AVT 203 AERO.  
Spring 2016

Tentative information. This info may change with notice.

Lecture: T-TH 9:00 to 9:50 in room TEC 182  
Instructor: Don Morris  
Office: 226C, TEC  
Office Phone: 618-453-9262  
Email: d morris@siu.edu  
Office Hours: T 10:00-2:00  
TH 12:00-2:00  
Text for attendance issues: 618-303-5898. Please include your name in your text.

Lab: M or F 1:00-2:50 in room AT 134  
Instructor: Daniel Mattingly  
Office: 101, HELI  
Office Phone: 618-453-9284  
Email: dmatting@siu.edu  
Office Hours: MF 12:00-12:50, 3:00-3:50  
W 12:00-1:50  
Text for attendance issues: 240-538-6278. Please include your name in your text.

Lab: W 3:00-4:50 in room AT 134  
Instructor: Tom Roy  
Office: 226E, TEC  
Office Phone: 618-453-9213  
Email: troy@siu.edu  
Office Hours: MWF 10:00 to 12:00  
Please email with attendance issues.

Required Items:

Lecture:
- Jeppesen A&P General,  
- Jeppesen A&P Airframe,  
- AC 43.13-1B  
- iClicker  
- Prepware (highly recommended)

Lab:
- Safety Glasses  
- AC 43.13-1B

Tools, to include AT LEAST
- Screwdrivers, assorted  
- Pliers, various inc. diagonal cutters  
- Wrenches - standard sizes  
- Socket Set, including 1/4 drive  

Inspection Equipment
- Mirror  
- Flashlight  
- Magnifying Glass

Course Description:

Students will have knowledge of flight theory and factors affecting aircraft in flight. They will explain and compare aircraft design features in subsonic, transonic, and supersonic aircraft. They will be able to assemble and rig various aircraft control systems, analyzing and correcting faulty flight characteristics.

Prerequisite: None

Digital Devices:

Digital devices such as tablets, laptops, and phones have the potential to enhance our lives and to workplaces. They also have the potential to cause problems in an educational setting. These devices will be allowed only with specific permission form the instructor. In particular, there will be no use of headphones or earbuds permitted without specific permission.
Department Attendance Policy:

Attendance is mandatory. Students are expected to be in class and lab on time. Three late arrivals will be counted against the student as one unexcused absence. Unexcused absences or habitual tardiness will result in a cumulative reduction of the student's final grade point average: First unexcused absence results in a one-point reduction of the final grade (0-100 scale). Second absence results in a two-point reduction. Third absence results in a four-point reduction. Fourth absence results in an eight-point reduction. Fifth absence results in a sixteen-point reduction. After the fifth unexcused absence the cumulative grade reduction would be 31 points, making it impossible to receive a passing grade for the course.

Make up time may be granted at the discretion of the instructor. Final determination as to whether or not an absence is "excused" rests with the instructor. Performance of make-up time does not reinstate points lost due to unexcused absences. **Makeup instruction will only be provided if approved, coordinated and completed within two weeks of an absence. Failure to make up lost time will reduce grades per occurrence.**

Class Attendance Policy

Since excused absences are left to the instructor’s discretion, we (Morris and Mattingly) have discussed this subject in order to be consistent.

Unless you can provide medical documentation that you are unconscious, any no-show will be unexcused. If you are experiencing an emergency, you may notify us (Morris for Lecture, Mattingly or Roy for lab) via email, text, or voice mail. Unscheduled medical will be excused with a copy of a doctor’s excuse (a walk out statement is not an excuse).

In order to be excused, you must speak with the appropriate instructor (lab vrs lecture). You will need to provide excuse documentation and makeup work within 2 weeks. Otherwise the time can not be made up.

Online Classroom:

This class will use the Desire 2 Learn online classroom management system (online.siu.edu) for communication. Your grades and attendance will be posted online. You may view and review them at any time. Monitoring your grades and your attendance is YOUR responsibility.

Attendance will be noted:

- **P:** Student was Present. Grade reduction unless Excused w/in 2 weeks.
- **-1:** Student missed an hour. Grade reduction unless Excused w/in 2 weeks.
- **-2:** Student missed two hours. Grade reduction unless Excused w/in 2 weeks.
- **-3:** Student missed three hours. Grade reduction unless Excused w/in 2 weeks.
- **T:** Tardy. Three T’s count for one AU. Cannot be made up.

Your instructor will often use emails to communicate with you. Make sure that your registered email is up to date, and that you monitor it regularly.

iClicker Info:

iClickers are required for the lecture portion of this class. You may purchase them new or used
from the bookstore. You will need to register your clicker online. Most days, iClickers will be used to take a short graded review quiz at the beginning of class. Failure to bring an iClicker to class will be treated as a tardy. If you are absent or tardy for any reason, you will not have the opportunity to make up the iClicker quiz.

**Tools:**

You are expected to provide your own tools, and to use them. Failure to provide your own tools will result in loss of grade. See “required items” on page 1. You do not need to limit yourself to the required tools. A good mechanic purchases good tools - and learns to use them. As you work on aircraft, you will find that tools such as magnetic and mechanical retrieval tools, ratcheting wrenches, universal joints, alligator forceps, and assorted extensions make a tremendous difference in your ability to complete a job successfully, on time, and without damaging the parts.

**Lab Grades:**

Daily Points: Each day in the lab, students will receive a 10 point daily score. This score will be based on participation, attitude, technique, and clean up. If you don't bring your tools, you will loose points, also. Lab daily will count toward 33% or your lab grade.

In addition to daily points, the following projects will be completed and graded:

<table>
<thead>
<tr>
<th>#</th>
<th>Group</th>
<th>Lab Name and Level</th>
<th>Pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro</td>
<td>Background Info (Level 2)</td>
<td>50</td>
</tr>
<tr>
<td>2</td>
<td>General Skills</td>
<td>Safety Turnbuckles (Level 3)</td>
<td>25+5</td>
</tr>
<tr>
<td>3</td>
<td>General Skills</td>
<td>Fabricate Cables (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>General Skills</td>
<td>Inspect Cables and Pulleys (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>5</td>
<td>General Skills</td>
<td>Measure Control Surface Travel + Balance Control Surface (Level 3)</td>
<td>50</td>
</tr>
<tr>
<td>6</td>
<td>Check Align</td>
<td>Measure Landing Gear Alignment (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>7</td>
<td>Check Align</td>
<td>Measure Wing Alignment (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>8</td>
<td>R&amp;I</td>
<td>Remove Aircraft Primary Flight Control Surface per MMM (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>9</td>
<td>R&amp;I</td>
<td>Install Aircraft Primary Flight Control Surface per MMM (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>10</td>
<td>R&amp;I</td>
<td>Rig and Inspect Primary Flight Control Surface per MMM (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>11</td>
<td>R&amp;I</td>
<td>Rig and Inspect Secondary Control Surface per MMM (Level 3)</td>
<td>25</td>
</tr>
<tr>
<td>12</td>
<td>Heli</td>
<td>Demonstrate and Explain Helicopter Aerodynamics (Level 2)</td>
<td>50</td>
</tr>
<tr>
<td>13</td>
<td>Aero</td>
<td>Locate, Interpret, and Apply Heli Tracking Info (Level 2)</td>
<td>25</td>
</tr>
<tr>
<td>14</td>
<td>Aero</td>
<td>Using Wind Tunnels and Models (Level 2)</td>
<td>25</td>
</tr>
</tbody>
</table>

Note that for equipment scheduling purposes, labs will not necessarily be done in the same order or at the same time by all members of the class. Project grades will count as 67% of your lab grade.
Equipment:

You will be working on actual aircraft. These aircraft are to be respected and cared for. Sloppy work may permanently damage them. Use only approved techniques and tools on the aircraft. Nuts should be tightened with torque wrenches, and never ever with pliers. The use of unapproved techniques will result in grade reduction.

Classroom Conduct:

Appropriate classroom conduct at the college level includes being on time and prepared for class. It includes behaving respectfully towards other students and instructors. Disrespectful behaviors are beneath the standards of college level students, and may result in your being excused from this class. This would be counted as an unexcused absence per the attendance policy. Cell phones and electronic devices should be turned off during class, except for when they are specifically allowed by the instructor. No phone calls or text messages may be received or sent during class, unless prior approval has been received from the instructor. Receiving a call or text in class may be counted as a “late” attendance grade.

Grading:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 100</td>
<td>80 - 89</td>
<td>70 - 79</td>
<td>60 - 69</td>
<td>&lt; 60</td>
</tr>
</tbody>
</table>

Lecture grades, lab grades, and the final exam will count for 1/3 each in the final grade. You must have at least a 70% to receive FAA credit for the course. The lecture grade may be based on tests, quizzes, homework, and class participation. The lab grade is based on participation and completion of ALL lab projects. The final exam is comprehensive.

Two separate sets of grades are maintained: SIU grades and FAA grades. Our FAA accreditation requires posting a separate grade for lecture, final exam and lab on the FAA student record card. The FAA requires a grade of 70 in order to pass. Failure to complete all of the labs will result in an grade of INC.

Incomplete Grades:

Per University policy, a grade of “Incomplete” or “INC” is assigned only when, for reasons beyond their control, a student engaged in passing work is unable to complete all class assignments and/or laboratory projects. The “INC” will be changed to a completed grade within the time period specified by the instructor, but will not exceed one year from the close of the term in which the course was taken. Should a student fail to complete all course requirements within the time period designated, the “INC” will be converted to a letter grade of “F.”

Safety:

This class involves dangerous tools and sharp edges. There is a very real threat of injury. No horse play will be tolerated in the lab. Appropriate shoes are required to be worn while in the labs. Eye protection will be required at all times in the shop area. Dress to get dirty during lab hours.
IMPORTANT DATES *
Semester Class Begins: ...........................................01/19/2016
Last day to add a class (without instructor permission): .........01/24/2016
Last day to withdraw completely and receive a 100% refund: ....01/31/2016
Last day to drop a course using SalukiNet: .................04/03/2016
Last day to file diploma application (for name to appear in Commencement program): .................02/12/2016
Final examinations: ..............................................05/09–05/13/2016

Note: For outreach, internships, and short course drop/add dates, visit Registrar’s Academic webpage: http://registrar.siu.edu/

SPRING SEMESTER HOLIDAYS
Martin Luther King, Jr.’s Birthday Holiday 01/18/2016
Spring Break 03/12–03/20/2016

WITHDRAWAL POLICY ~ Undergraduate only
Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit http://registrar.siu.edu/catalog/undergraduatecatalog.html

INCOMPLETE POLICY ~ Undergraduate only
An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student’s grade point average. For more information please visit: http://registrar.siu.edu/grades/incomplete.html

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A, B, C, D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at http://registrar.siu.edu/catalog/undergraduatecatalog.html

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit http://gradschool.siu.edu/about-us/grad-catalog/index.html

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM
Student Conduct Code: http://sr.siu.edu/student_conduct_code/

MORRIS LIBRARY HOURS
http://www.lib.siu.edu/about

SAFETY AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: (618) 453-5714, or siukicas@s3iu.edu, http://salukicares.siu.edu/index.html

EMERGENCY PROCEDURES
Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. We ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) programs. Emergency response information is available on posters in buildings on campus, available on BERT’s website at www.bert.siu.edu, Department of Safety’s website at www.dps.siu.edu (disaster drop down) and the Emergency Response Guideline pamphlet. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow the instructions and stay with your instructor during an evacuation or sheltering emergency.

INCLUSIVE EXCELLENCE
SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well an essential preparation for any career. For more information please visit: http://www.inclusivexcelence.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning Support Services website:

Tutoring: http://tutoring.siu.edu/
Math Labs http://math.siu.edu/courses/course-help.php

WRITING CENTER
The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit http://write.siu.edu

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our office’s main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

Additional Resources Available:

SALUKINET: https://salukinet.siu.edu/cp/home/displaylogin
ADVICE: http://advisement.siu.edu/
PROVOST & VICE CHANCELLOR: http://pvcaa.siu.edu/
SIU ONLINE: http://online.siu.edu/

Spring 2016 R.O’Rourke