SIUC AVT 206 - Spring 2016

Basic Info: Lecture T-TH 2-3 pm, Lab M,W,or F 8-12 AM
Instructor: Don Morris
Room: Lecture 145, Lab 129A (Hangar)
Office: TEC Building, Room 226C
Office Phone: 618-453-9262
Email: dmorris@siu.edu
Text (for attendance) 618-303-5898
Office Hours: T 10:00-2:00 and TH 12:00 to 2:00 or by appointment
Virtual office hours by email
Textbooks: Jep. A&P Airframe, AC 43.131B
Required Items: Eye Protection, Calculator, Tools as per list
Recommended - Jeppesen Airframe Test Guide, ASA Prepware - Airframe

Course Description:

Students will make appropriate sheet metal repairs using correct repair procedures, tools, and materials. They will be required to demonstrate correct use of and interpretation of structural repair diagrams and correct interpretation of charts and tables from AC 43, 13-1B pertaining to materials and methods.

Prerequisite: AVT 101, 111, 113, MATH 108 or 125.

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.
My Attendance Policy

In my experience, attendance is the single biggest predictor of failure or success. I will be much stricter on attendance this year.

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 me 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 me personally. 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.

Precision:

Sheet metal work requires precision calculation, layout, and work. Grades will be based upon precision. Generally, I expect you to work to the nearest ±1/32 of an inch. This will require sharp pencils and fine tip Sharpies.
Tools:

You are expected to provide your own tools, and to learn how to read them. Failure to provide your own tools will result in loss of grade. If you have trouble with the tools on the list, you may purchase alternate tools to do the job. For example, if you have trouble reading a ruler to the nearest 100th of an inch, buy and bring a digital caliper.

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, and clean up. There will be a total of 150 daily points available. If you don't bring your tools, you will loose points, also.

Project Points: There are 5 major projects in this class. They are as follows:

- Rivet Plate: 50 points. Due date: Week 3
- Spar Splice: 100 points. Due Date: Week 7
- Airfoil Shape: 100 points. Due Date: Week 11
- Curved Ribs (2): 50 points. Due Date: Week 13
- Curved Section: 100 points. Due Date: Week 16

These must be individually completed in the lab environment. You may work ahead. Note that for many students, this will require additional time for you to come in and work. I will arrange additional times later during class.

In addition to the major projects, there will be five layout projects. These projects will be worth 25 points each. Some time will be provided in class to work on them, but much of the work will likely have to be completed on your own time. These will be paper based, and need not be completed in the lab. Due dates will be provided later in the class.

Late Work: Lab projects that are not handed in at the specified times will be penalized at the rate of 10% per week. Absences will not necessarily change these due dates.

Lab Summary: 150 daily + 400 major + 125 layout = 675 points total

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:

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

University Standard of Academic Honesty:

All courses offered by the college will be conducted in concert with the ethical standards of the aviation profession and the SILTC policy on academic honesty. This policy may be found in the Undergraduate Catalog. Each student is responsible for being aware of and understanding the policies and procedures in the Undergraduate catalog that pertain to Academic Integrity. These policies include cheating, fabrication, falsification and forgery, multiple submissions, plagiarism, complicity and computer misuse.

Cheating or fraud with an iClicker is included in this definition.

Emergency Procedures:

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. 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 www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each of emergency.

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 these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

**ADA Statement:**

Students with disabilities who may need accommodations, or who have any emergency medical information the instructor should know of, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the first week of the term. Students also need to contact the SIUC Disabilities Support Services Office in Woody Hall B-150. Call 453-5738
<table>
<thead>
<tr>
<th>Lab</th>
<th>Description</th>
<th>Tools Required*</th>
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<tbody>
<tr>
<td>1</td>
<td>Familiarization with lab. Practice Drilling, Riveting, and removal. Goal - Prepare Project 1 plate so that you can center punch holes before lab 2.</td>
<td>Safety Goggles Center Punch</td>
</tr>
<tr>
<td>3</td>
<td><strong>Project 1 Due.</strong> Begin Project 2. Goal. Fold spar, so that you can lay out and center punch holes before lab 4.</td>
<td>Above, plus 100ths ruler, Sharpies.</td>
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<tr>
<td>4</td>
<td>Project 2. Fly cut spar and press flanges. Form and drill angle reinforcements. Remove damaged material. Form doubler plate. Goal - Complete doubler plates so that you can lay out rivet pattern on doublers at home.</td>
<td>Above</td>
</tr>
<tr>
<td>5</td>
<td>Project 2. Joggle inside doubler plate. Cleco, drill, and debur doubler plate. Form patch material.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Project 2. Rivet assembly together. Goal - Begin project 3, so that you can measure and lay out sides and spar at home before week 7.</td>
<td></td>
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<tr>
<td>7</td>
<td><strong>Project 2 Due.</strong> Form project 3 shape, and rivet together. Form custom wood dies, and bend triangles.</td>
<td></td>
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<tr>
<td>10</td>
<td>Project 3. Flange access hole if time allows. Close access pane. Begin project 4 if possible.</td>
<td>Above, plus Screwdrivers</td>
</tr>
<tr>
<td>11</td>
<td><strong>Project 3 Due.</strong> Project 4 - bend flange over dies. Cut and flange lightening holes. Prepare reinforcement strips.</td>
<td>Above</td>
</tr>
<tr>
<td>12</td>
<td>Project 4 - Heat treat. Install Subcountersunk flush rivets. Begin Project 5 if possible. Goal - cut out wide and narrow skin plate so you can lay out and center punch transverse pitch rivet joint at home.</td>
<td></td>
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<tr>
<td>15</td>
<td>Project 5. Install nutplates. Rivet entire project together.</td>
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<tr>
<td>16</td>
<td>Install cam-loc fastener. <strong>Project 5 Due.</strong></td>
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*in addition to common hand tools, and tools that you find you need in order to get the job done.
Syllabus Attachment
Spring 2016
http://pvcaa.siu.edu/

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, internet, 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/undergraduateregistrar.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 graduating, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, no later than the end of the semester following the term in which the course was taken, or graduating, 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/grad/rule/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/undergraduteregistrar.html

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit http://gradschool.siu.edu/gradcat/gradreg.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://vcs.siu.edu/studentconductcode
MORRIS LIBRARY HOURS http://www.morrislib.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 salukicares@siu.edu, http://salukicares.siu.edu/index.html

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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.inclusiveexcelleece.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 and Support Services website;
Tutoring: http://tutorial.siu.edu/
Math Labs: http://math.siu.edu/courses/courseshelp.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
ADVISEMENT: http://advisement.siu.edu/
PROVOST & VICE CHANCELLOR: http://pvcaa.siu.edu/
SIU ONLINE: http://online.siu.edu/

Spring 2016 R.O’Toole