AMTT 1420 – Advanced Aircraft Electronic Systems/Troubleshooting

Instructor:

Office Phone:

Email Address:

Class Room:

Consultation Hours:

Link or Instructions for Accessing Online Course Materials: MyPage website courses

Textbooks: Avionics: Systems and Troubleshooting A Practical Guide to Advanced Avionics 2nd Edition, ISBN 978-1-933189-21-5
Optional-FAA Airframe & Powerplant mechanics Airframe Handbook, 2nd ed. **volume 1 and 2** (Downloadable version on FAA website-free) ISBN 978-1-94114410-7, 978-194114411-4
FAR Handbook for Aviation Maintenance Technicians
AC-43.13-1B/2A W/Change 1

Required Equipment: Basic hand tools, safety glasses, and hearing protection

Course Description: This course will provide training, focusing on troubleshooting in lab and with Glass flight decks. Providing more information on Data Bus, integrated monitoring and warning systems, integrated test equipment, Autoflight systems, and practice with compass and air data systems.

Prerequisite: AMTT 1405 or Instructor approval

Course Goals & Learning Objectives:

Individual Counseling: Students are encouraged to visit with the instructor after class or when available by appointment.

Course Requirements

- Preparation: Study criteria is from lecture notes posted on Canvas, textbook, workbook and any handouts from the instructor.

Course Outline
- Technical Publications and Data Management
- Power Distribution, Digital and Data Bus Systems
- Electronic Instrument Systems
- Integrated Monitoring and Warning Systems
- Autopilot and Autoflight Systems (Emphasis on Air Data and Compass Systems)
- Communication and Entertainment Systems
- Global Positioning System

Grading Scale and Policy: Each area/subject must be passed with 70% or higher to meet the program requirements. Students not meeting this minimum will be required to repeat the subject area. The final grade will be influenced by a student's attitude, use of time, attendance and safety practices and grades received in class and lab environments.

Testing: If a student has to miss a scheduled test day the student must consult with the instructor either in person or by email. This test must be made up the following school day in order to receive full credit; if these requirements are not fulfilled it will result in an incomplete.

Lake Work: All work not turned in on time or completed on time will result in a minimum of 10% cut in points for that assignment, if prior arrangements not made.

Incomplete Policy: All assignments and test for class time and lab will be turned into the instructor. Any assignments not turned in will result in an incomplete.

Extra Credit: Make up credit is at the discretion of the instructor.

__Course calendar includes test days, due dates for major assignments, etc.__

Grading Scale:

100-97	A	85-82	B-	69-66	D+
96-94	A-	81-78	C+	65-62	D
93-90	B+	77-74	C	61-58	D-
89-86	B	73-70	C-	57-54	E

*Cut-off for passing is 70% (C-)

REQUIRED POLICIES FOR CLASSROM CONDUCT

- Cell phones use including 'surfing', texting and talking is prohibited during class time.
- Lap top computers off except for note taking.
- **Absolutely no sleeping**. If you find that is unavoidable, you might be asked by the instructor to leave the class for that day.
- Be on time, be ready, and be self-motivated. Be safety conscious (what are the consequences of your actions).
- If you have a question, raise your hand. Please do not challenge instructor in class, can discuss during break(s).
- If you want to know info on grade come to office after class.
- **No Swearing in class or on the premises**, it is a matter of self-control and being Professional.
- Lab requirement: Fulfill the lab tasks to an acceptable skill level (industry standard entry level), lab grade will consist of skill, group participation, work ethic, clean-up habits and completion of percentage score of lab tasks.

Airport Badging Requirements: All students must be escorted in the Airport campus lab areas by the Instructor

Student Code of Conduct

The student is expected to follow the SLCC Student Code of Conduct found at:

http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf

General Education Statement

This course fulfills the critical thinking requirement for the General Education Program at Salt Lake Community College. It is designed not only to teach the information and skills required by the discipline, but also to develop vital workplace skills and to teach strategies and skills that can be used for life-long learning. General Education courses teach basic skills as well as broaden a student's knowledge of a wide range of subjects. Education is much more than the acquisition of facts; it is being able to use information in meaningful ways in order to enrich one's life.

While the subject of each course is important and useful, we become truly educated through making connections of such varied information with the different methods of organizing human experience that are practiced by different disciplines. Therefore, this course, when combined with other General Education courses, will enable you to develop broader perspectives and deeper understandings of your community and Aviation, as well as challenge previously held assumptions about Aviation and its inhabitants.

ADA Statement   **http://www.slcc.edu/drc/index.aspx**

Students with medical, psychological, learning or other disabilities and desiring accommodations or services under ADA, must contact the Disability Resource Center (DRC). The DRC determines eligibility for and authorizes the provision of these accommodations and services for the college. Please contact the DRC at the Student Center, Suite 244, Redwood Campus, 4600 So. Redwood Rd, 84123.
Phone: (801) 957-4659, TTY: 957-4646, Fax: 957-4947 or by email: amber.jentzsch@slcc.edu

Emergency Evacuation Procedure

http://www.slcc.edu/emergency-prepare/evacuation-routes.aspx

Student Contribution: Practice a 95% work ethic in the lab and lecture arenas, participate in lectures, read lesson plans.

Other Classroom or Conduct Policies: All policies as outlined in the SLCC catalog and Student Handbook will be enforced. Additionally Cell phones must be turned off; laptop computers must be turned off except for research projects and report papers. Sleeping during class hours will not be tolerated. Please be punctual as tardiness is recorded. Safety consciousness will be rigorously encouraged and enforced.

Title IX Information:

20 U.S.C.A. Section 1681 (a): TITLE IX

"No person in the United States shall, on the basis of sex, be excluded from participation in, be denied benefit of, or be subjected to discrimination under any education program or activity receiving federal funds."

Examples of violations (but not limited to):

- Sexual advances, requests for sexual favors and sexually motivated physical conduct
- Overt or subtle pressure for sexual activity
- Sexually offensive verbalization including remarks, "teasing", slurs, and innuendo
- Repeated inappropriate jokes or comments about sex or gender specific traits
- Conduct that is demeaning or derisive and occurs substantially because of one's gender
- Sexual assault
- Sexual Violence
- Gender based disparate treatment

Violations can occur in any college environment, such as (but not limited to):

- Field Trips
- Student Clubs
- Transportation
- Classrooms
- Athletics
- On Campus Events

If you have questions or concerns regarding your rights or responsibilities, or if you would like to file a Title IX complaint please contact:

Students-
Dr. Marlin Clark, Dean of Students, 801-957-4776, STC 276 A (Redwood)

Employees or Community members-
Ken Stonebrook, Title IX & Discrimination Manager, 801-957-5027, AAB 211G (Redwood)

Online Reporting Form-
http://www.slcc.edu/eeo/title-ix/complaint.aspx

Salt Lake Community College has a strong prohibition against RETALIATION! The college does not tolerate acts of retaliation against anyone for engaging in filing a complaint or participating in an investigation.

ACKNOWLEDGMENT OF UNDERSTANDING

I, _____ have fully read and understand the
print name

requirement of the course syllabus for _____
(course and semester)

STUDENT SIGNATURE _____   *DATE* _____