Course Number: AM1023

Course Title: Fundamentals of Math, Physics, & Drawing

Course Description: This is a course in the principles of Mathematics, Physics, and Drawing, as related to the aviation maintenance field. This course is mirrored after the FAA approved course (AM 1003), and may be credited as prior education towards education requirements of an approved program by successful completion of this course and completion of a competency test at an approved school such as SAU Tech Aviation Maintenance Training School. Such a competency test would be administered by appointment with approved instructors (me or whoever I assign) and would involve no additional charges. To my knowledge the FAA has not approved any forms of internet instruction for approved aviation maintenance training schools. Title 14 Code of Federal Regulations (CFR) Part 147.31 does however provide for this method to be used as "prior instruction" and details the requirements to follow. It could possibly help if you're trying to get a signoff from the FAA to take the Airframe and Powerplant tests based on experience requirements as well.

Instructor Name: Bill Archer

Instructor Bio: AAS Aviation Maintenance Technology, SAU Tech 2001, BSIT SAU Magnolia 2005, FAA Airframe and Powerplant Certification, FAA Private Pilot Single Engine Land, SAU Tech Technology Chair, SAU Tech Aviation Program Coordinator

Prerequisite: None

Textbook Title: Aviation Maintenance Technician Handbook General FAA-H-8083-30 available free online.

Learning Outcomes: The student will achieve a minimum of 70% proficiency on the following course outcomes:

A. Complete each practical project for each FAA required task: MATHEMATICS.
B. Complete each practical project for each FAA required task: BASIC PHYSICS.
C. Complete each practical project for each FAA required task: AIRCRAFT DRAWINGS.
D. Complete a final test comprehensive to the subject matter covered through objectives.

On-Campus Requirement:
The final exam must be taken at an approved proctor site.

Modes of Interaction: This course is delivered via distance learning. All projects with the possible exception of one will be able to be sent electronically to the instructor for evaluation. There is a drawing project that should be done by hand and it may be submitted by scan and send electronically, or it may be mailed or delivered to the instructor at Bill Archer, SAU Tech Aviation, PO Box 3499, Camden, AR 71711-1599. Students are required to interact with the class and the instructor through discussion assignments.

Methods of Assessment: End of course testing must be completed at a proctored location, as specified in the syllabus. This is required in order to make certain that the person who has completed the projects and preliminary assignments privately is indeed the person who successfully completes the end of course test where a proctor will monitor the test and confirm identity with a photo id.

Enrollment Procedures:
SAU Tech is an open admissions college; however, we have several items that you must provide in order to be admitted:
- Submit application for admission.
- Submit a high school transcript or GED, and official college transcripts from all previously attended colleges (if applicable).
- Provide proof of two immunizations against measles, mumps and rubella.
- Take a placement test. Students enrolling must submit ACT, SAT, ASSET or COMPASS scores. Students can take the ASSET or COMPASS test at SAU Tech.

Students are responsible for all tuition and fees at the time of registration. Students must officially drop by written notice or in person in order to reduce their balance owed. If students never attend class, he/she will still be assessed partial tuition and full student processing fees, unless he/she completely withdraws during the 100% refund period.

In order for a student to drop a class, he/she must complete a drop form or send written request to his/her advisor. A $10 drop fee is assessed for drops that take place after the registration period ends.

Admissions Office Website: http://www.sautech.edu/studentResources/admissions.aspx

Course Registration Website: http://www.sautech.edu/studentResources/advising.aspx

Technical Requirements and Resources: Students will need Internet access and have the ability to send and receive e-mail attachments using the e-mail within Blackboard.

Library Website: http://www.sautech.edu/lrc/index.aspx

Bookstore Website: http://sautech.textbooktech.com

Adult Learner Resources: Online library and bookstore services can be obtained at the library and bookstore websites. Advising services can be obtained at http://www.sautech.edu/studentResources/advising.aspx.

Student Support and Learning Resources: Online library and bookstore services can be obtained at the library and bookstore websites. Advising services can be obtained at http://www.sautech.edu/studentResources/advising.aspx.

Other Considerations
Students will need Internet access and have the ability to send and receive e-mail attachments using the e-mail within Blackboard. All first time online students are required to complete Learning Strategies before they will be allowed to take their online course(s). The purpose of Learning Strategies is to teach students how to use Blackboard and provide information about other systems that students will use while a student at SAU Tech.

There are computer programs and other things that you will need if you are taking an online course from SAU Tech. To make it easier for you, we have compiled a list of these things. Before beginning your online course, you should go ahead and make sure each of these programs listed below are loaded on every computer that you will use while taking your online course(s).
- Microsoft Word – used to complete assignments and submit to instructor
    - Can be accessed via SkyDrive inside your student email account. **FREE**
    - Can be purchased from Wal Mart or other software vendor and will need to be loaded on to your computer
    - There is also a **free** product that works just as good as the Microsoft Office Suite. You can download it at http://download.openoffice.fm/free/?pk=26976
- Adobe Reader 7.0 or higher – used to read files in pdf format
    - Cost: Free
    - Can be downloaded to your computer from http://www.adobe.com/products/acrobat/readstep2.html
- Adobe Flash Player (7 or higher) – used to view study activities and demonstrations in Learning Strategies course
    - Cost: Free
    - Can be downloaded to your computer from http://www.adobe.com/shockwave/download/download.cgi?P1_Prod_Version=ShockwaveFlash

- Macromedia Shockwave Player 8.5.1 – used for interactive quizzes, animations and activities
    - Cost: Free
    - Can be downloaded to your computer from
      http://www.macromedia.com/shockwave/download/download.cgi?
- Windows Media Player – used to listen play audio files
    - Cost: Free
    - Comes as part of your Windows operating system
- Java – a technology that is required in order for Blackboard to function properly as well as some other programs that SAU Tech uses with its online classes (**Note: Only one version of Java can be running on your computer at a time.)**
    - Cost: Free
    - Can be downloaded to your computer from
      http://javashoplm.sun.com/ECom/docs/Welcome.jsp?StoreId=22&PartDetailId=jre-1.5.0_05-oth-JPR&SiteId=JSC&TransactionId=noreg