

**Southern Arkansas University Tech**  
P.O. Box 3499 ~ Camden, AR 71711 ~ 870-574-4453  
[www.sautech.edu](http://www.sautech.edu)

## Online Course Information Sheet

**Course Number:** AM 1023

**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.

**Teaching Methodology, including description of interaction between student and instructor:** 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 @ 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 Testing:** 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:**

Non-degree seeking students applying for admission to SAU Tech must submit an application for admission, appropriate placement test scores or, if applicable, official college transcript(s) with proof of Composition I and Intermediate Algebra (having earned a letter grade of "C" or better).

Full-time degree seeking students and part-time degree seeking students applying for financial aid applying for admission to SAU Tech must submit an application for admission, appropriate placement test scores, immunization

record (if born after 01/01/1957), high school transcript or GED scores, and official college transcript(s), if applicable. (Note: Part-time students not applying for financial aid do not have to submit immunization record.)

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 completely 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 add/drop fee is assessed for adds/drops that take place after classes start.

**Special Enrollment Issues (specialized software or equipment, access to a particular network, or similar requirements):**

**Special Attendance Requirements (student contact with instructor, proctored examinations, etc.):**

The final exam must be taken at an approved proctor site.

**Access to Learning Resources:**

Students will receive all required discussion materials through the Internet, links to texts, and the electronic mail with Blackboard. Students will be required to purchase the course textbook, if applicable, and Learning Resource Center access is encouraged but not required to be successful. Textbooks can be ordered online. The Bookstore number is (870) 574-4510. The Library number is (870) 574-4518.

**Other Considerations (writing ability, assignments/projects, time considerations, etc.):**

Students will need Internet access, Microsoft Word, Adobe Acrobat Reader, and the ability to send and receive e-mail attachments using the e-mail within Blackboard.