

GAVILAN COLLEGE
Aviation Maintenance Technology
Spring Semester

Course Syllabus

Course # / Title: AMT 111–Airframe Structures

Course Description: Aircraft wood, fiberglass construction, fabric covering, testing and repair, aircraft inspection, painting techniques and procedures. Also the study of basic hydraulic systems of anti-skid systems, pneumatic, fixed landing and retractable landing gear systems. Basic aircraft systems familiarization along with advanced laboratory projects from topics covered in AMT 110 are a part of this course.

Instructor: Fred Young Phone: (831) 637-1151

Office Hours: Monday - Friday: 9:30 - 10:30 a.m.
Wednesday: 9:30 a.m. - 3:00 p.m.

Required Books: Airframe/Powerplant Mechanics Airframe Handbook EA-AC65-15A
Department of Transportation, F.A.A.

Acceptable Methods, Techniques and Practices/Aircraft Inspection and Repair AC43.13-1A&2
Department of Transportation, F.A.A.

Class Hours: 10:30 a.m. - 3:30 p.m. daily

Required Tools: (See separate tool list.) Tools should be acquired by third week of class.

Subjects Covered: Aircraft Hydraulics, Landing Gear Systems and Pneumatic Systems, Fabric, Painting, Inspection, Ice and Rain Control Systems, Fire Protection Systems, Communications and Navigation, Assembly and Rigging

One oral report will be given each semester covering any one of the subject areas above.

Students requiring special services or arrangements because of hearing, visual, or other disability should contact their instructor, counselor, advisor, or the Disabled Student Services Office.

Occupational/Vocational Students: Limited English language skills will not be a barrier to admittance to and participation in vocational education programs.

Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism will result in disciplinary action which may include recommendation for dismissal.

Please help keep Gavilan College a litter-free campus and preserve its park-like setting.

Methods of Grading:

There will be a division between lab 60% and lecture 40%.

1. Quizzes and block test will be 50% of grade.
2. Mid-term and final exams will be 20% of grade.
3. Notebook will be 15% of grade.
4. Projects, lab work will be 15% of grade.
5. Grades are based on a percentage of total points with 1000 being the maximum possible. The plus and minus (+ and -) grading system is also used.

<u>Points</u>	<u>Percentage</u>	<u>Grade</u>
900 - 1000	90% - 100%	A
800 - 899	80% - 89%	B
700 - 799	70% - 79%	C
600 - 699	60% - 69%	D
599 or less	59% or less	F

Each hour you miss will be one point off your total point accumulation (due to lack of participation).

Required Projects:

- | | |
|-------------------------------------|------------------------------------|
| I. Hydraulics | II. Landing Gear |
| 1. Air Oil Strut | 1. (1,2,3) Tails Wheels |
| 2. (IA) O Ring Tools | 2. (4) Landing Gear Actuator |
| 3. (2) Strato Power Pump | 3. (9) PA 28-140 Landing Gear |
| 4. (3) Hand Pump | 4. (10) Beechcraft Landing Gear |
| 5. (4A) Vickers Pump | |
| 6. (5A) Actuator | III. Wood, Dope and Fabric |
| 7. (7) Master Cylinder | 1. Assigned Project |
| 8. (7B or 7C) Power Master Cylinder | IV. Aircraft Painting |
| 9. (10) Wheel and Brake | 1. Aircraft Paint Project |
| | V. Aircraft Inspection |
| | 1. Complete Aircraft or Helicopter |

Notebook - Required Contents:

Your notebook must include the following items and procedures:

1. Locking 3-clip binder
2. Name and AMT number on binder
3. Index, tabs for sections
4. Class information sheet
5. Class notes
6. Project sheets
7. Question sheets
8. Handout information
9. Review sheets
10. Special projects completed

Notebook Point Value:

Question Sheets	75 points
Class Notes	75 points
Projects	50 points

- Note: (1) **No Xerox** copies of notes or projects
(2) 10 points will be deducted for each day notebook is late

Course Requirements:

1. Attend General Aviation Technology at same time as Airframe Maintenance Technology or have completed General.
2. You must complete Airframe with a minimum of a C average and complete 750 hours before a certificate can be issued.