

**GAVILAN COLLEGE**  
**Aviation Maintenance Technology**

**Course Syllabus - Spring Semester**

**Course # / Title:** AMT 121 – Aviation Powerplant Systems Technology

**Class Days / Time:** Monday, Tuesday, Thursday, Friday 8:30 a.m. - 3:00 p.m.

**Instructor:** L. Travis Flippen

**Office Hours:** Monday 9:00 to 10:00 AM Tue Wed Th Fr ½ before and ½ hour after class.

**Telephone:** (831) 637-1151

**Course Content:**

This course is designed to familiarize the student with theory of operation, maintenance, repair and troubleshooting of powerplant systems. Subject areas to be covered are Lubrication, Instrumentation, Fuel Metering, Fire Protection, Starting, Propellers and Governors.

**Prerequisite:** Successful completion of AMT 101 and AMT 111, or equivalent course, and/or instructor consent.

**Required Textbooks:**

1. Department of Transportation Federal Aviation Administration:  
Airframe and Powerplant Mechanics Powerplant Handbook AC 65-12A
2. Department of Transportation Federal Aviation Administration:  
Airframe and Powerplant Mechanics General Handbook AC 65-9A
3. Department of Transportation Federal Aviation Administration:  
Acceptable Methods, Techniques and Practices Aircraft Inspection and Repair AC43.13-1A&2
4. Aviation Maintenance Foundation: Aircraft Gas Turbine Powerplants EA-ITP

**Suggested Tool List Attached (see course requirements web page)**

**Course Requirements:** (See attached Grading Systems sheet)

The course requirements and grading will be in the following areas as listed on the Grading Systems sheet. The course grade is based on a 1,000 point system.

1. Notebook  
You will be required to keep a notebook of all hand-out materials and work assigned.
2. Assignment Quizzes  
There will be a quiz following each assignment. If you are absent and miss a quiz, you will receive a zero grade for the quiz--it cannot be taken at another time.
3. Phase Exams  
There will be a major test following each phase or subject area covered.
4. Mid-Term Exam  
There will be one major exam at mid-semester covering the entire half-semester.
5. Final Exam  
This is an important exam! The final will cover the entire semester's work. This test also carries the highest point total of the grading system; your score can easily change your grade one letter grade either way.
6. Shop/Lab  
This is based on the work you do in the shop. Following is a list of things to be considered in the shop grade:
  - a. Quality of work done
  - b. Cleanliness of work area
  - c. Number of projects completed consistent with equipment availability and quality. (In other words, time spent constructively working while in the lab.)
  - d. Respect shown for college tools and equipment
  - e. Shop attendance (being present during the time you are supposed to be in the lab and being on time)
7. Class Participation  
Class attendance is a requirement of Gavilan College and of AMT 121. There are 60 points in this area. You will lose one point for each one hour or any part of one hour you are absent. If your point total reaches zero, you will receive a course grade of F regardless of your number of points in the other six areas. This means that if you miss any time over 60 hours, you are out. This is for grading purposes; you cannot miss 60 hours per semester and meet the 1900 hour FAA requirement.

**Grading Time Line:**

If you withdraw from the class you will receive one of the three grades as listed below depending upon which week in the semester that you withdraw:

<u>Weeks</u>	<u>Symbol</u>
1-6	NRS (No Record Shown)
7-15	W (Withdrawal)
16 - end of term	F (Failure)

**Grading System Description**

	<u>Total Number of Points</u>	=	<u>Grade</u>
Phase Exams 18%	1000 - 900	=	A
Quizzes 17.5%	899 - 800	=	B
Midterm 11.5%	799 - 700	=	C
Homework 3%	699 - 600	=	D
	599 - 0	=	F
Notebook 9%			
Shop 19%			
Final 19 %			
Total 100% = 1000 Points			

**ADA Accommodation Statement:**

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

**Occupational / Vocational Statement:**

Occupational / Vocational Students -- Limited English language skills will not be a barrier to admittance to and participation in Vocational Education Programs.

**Student Honesty Policy Reference Statement:**

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.

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