

**AFT 122 Instrument Flight Technology**

**Units:** 3.0 **Hours:** 3.0 Lecture  
**Transferable:** CSU

Flight instrument usage, regulations, meteorology, chart reading and flight planning to prepare the student to begin flight training in flight solely by reference to flight instruments. **ADVISORY:** AFT 121 or 131, or have passed the FAA Private Pilot written exam

**AFT 133 Commercial Flight Operations**

**Units:** 3.0 **Hours:** 3.0 Lecture  
**Transferable:** CSU

Air traffic control procedures, meteorology, regulations, aircraft performance, and aerodynamics for students preparing for their Federal Aviation Administration (FAA) commercial pilot's license. **ADVISORY:** Hold private pilot certificate or AFT 121 with a grade of "C" or better. Eligible for English 250 and 260.

**AFT 134 Aviation Flight Technology**

**Units:** 3.0 **Hours:** 3.0 Lecture  
**Transferable:** CSU

This course includes all aerodynamics, navigation, regulations, airport and airspace requirements, meteorology, and emergency procedures necessary to qualify for a private pilot certificate. **ADVISORY:** Completion of English 250 and English 260.

## AVIATION MAINTENANCE TECHNOLOGY

**AMT 100 General Aircraft Technology**

**Units:** 7.5 **Hours:** 5.0 lecture 7.5 Laboratory  
**Transferable:** CSU

This course will provide the student with a thorough understanding of the use of basic hand tools and measuring devices, aircraft hardware, materials, and processes, mathematics and physical science for aircraft, aircraft weight and balance, aircraft drawing and blueprint reading. Both theory and practical application to aircraft systems is taught. **ADVISORY:** Mathematics 205 Meets at Gavilan College Aviation Department, 490 Skylane Drive, Hollister Airport, Hollister. Basic hand tools required. Details at the first class meeting.

**AMT 101 General Aircraft Technology**

**Units:** 7.5 **Hours:** 5.0 lecture 7.5 Laboratory  
**Transferable:** CSU

This course will provide the student with a thorough understanding of the use of maintenance publications, maintenance forms and records with emphasis on A & P mechanic privileges and limitations. Basic electricity for aircraft from Ohm's Law through transistor theory will be taught as well as ground operation and servicing of aircraft. **ADVISORY:** Mathematics 205 Meets at Gavilan College Aviation Department, 490 Skylane Drive, Hollister Airport, Hollister. Basic hand tools required. Details at the first class meeting.

**AMT 110 Airframe Maintenance Technology**

**Units:** 13.5 **Hours:** 9.0 lecture 13.5 Laboratory  
**Transferable:** CSU

Study of aircraft aerodynamics, rigging and assembly, aircraft sheet metal structures and welding technology. Also the study of cabin atmosphere systems, fuel systems, and line maintenance, level information on aircraft instruments. Each of these areas will be accompanied with appropriate laboratory time. Meets at Gavilan College Aviation Department, 490 Skylane Drive, Hollister Airport, Hollister. Basic hand tools required. Details at the first class meeting.

**AMT 111 Airframe Structures**

**Units:** 13.5 **Hours:** 9.0 lecture 13.5 Laboratory  
**Transferable:** CSU

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. Meets at Gavilan College Aviation Department, 490 Skylane Drive, Hollister Airport, Hollister. Basic hand tools required. Details at the first class meeting.

**AMT 120 Aviation Powerplant Technology**

**Units:** 14.0 **Hours:** 9.0 lecture 15.0 Laboratory  
**Transferable:** CSU

This course is part of the curriculum required by the Federal Aviation Administration to obtain certification as an aircraft powerplant maintenance technician. This certificate allows the rated technician to perform maintenance, preventive maintenance repairs and alterations to USA FAA certificated aircraft powerplants. This Section covers the theory and practical application of operation, overhaul practices, inspection, installation, testing and troubleshooting techniques covering the subject areas of reciprocating and turbine engines, ignition, induction, supercharging, cooling and exhaust systems. **ADVISORY:** Successful completion of AMT 101 and AMT 111. Basic hand tools required. Details at the first class meeting.

**AMT 121 Aviation Powerplant Systems Technology**

**Units:** 14.0 **Hours:** 9.0 lecture 15.0 Laboratory  
**Transferable:** CSU

The theory of operation, maintenance, repair, and trouble-shooting procedures of powerplant systems and their relationship to the total powerplant package. To include lubrication, electrical, instrument, fuel metering, fire protection, starting, control systems, and the aerodynamics, theory and maintenance of propellers and their control systems. **ADVISORY:** Successful completion of AMT 120. Meets at Gavilan College Aviation Department, 490 Skylane Drive, Hollister Airport, Hollister. Basic hand tools required. Details at the first class meeting.

**AMT 190 Occupational Work Experience/Aviation**

**Units:** 1.0 TO 4.0 **Hours:** 5.0 TO 20.0 Laboratory  
**Transferable:** CSU

College credit for learning experience obtained on the job in accordance with a training plan developed cooperatively between the employer, college and student. 75 hours per semester per unit or 60 hours per semester for unpaid experience. This is a pass/no pass course. May be taken for a maximum of 16 units of work experience units. **REQUIRED:** Declared vocational major. Concurrent in seven or more units (including CWE units, except for summer school. For summer school, enrollment in one other class is required). Minimum 2.00 G.P.A. Meets at Gavilan College Aviation Department, 490 Skylane Drive, Hollister Airport, Hollister.

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**Beauty School: see Cosmetology**

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## BIOLOGICAL SCIENCE

**BIO 1 General Biology**

**Units:** 4.0 **Hours:** 3.0 lecture 3.0 Laboratory

**Transferable:** CSU, UC; CSU-GE:B2, B3, IGETC:5B; GAV-GE:B2, B3; CAN:BIOL2, BIOL SEQ A

A general biology course with an emphasis on the structure and function of cells, cell respiration, photosynthesis, cell cycle, Mendelian and non-classical genetics, evolution and diversity of life. The course is required for students majoring in biology and/or its subcategories (e.g., plant or animal sciences). **PREREQUISITE:** Biological Science 10 with a grade of 'C' or better and Mathematics 233 with a grade of 'C' or better. **ADVISORY:** Chemistry 30A; eligible for English 250 and English 260.

All courses listed here are part of Gavilan College's approved curriculum.  
 All courses are not offered every semester. Check the Class Schedule for current offerings.

