INSTRUCTOR:  David Buser  
LOCATION:  Classroom: F1-110  
             Office: F1-103B  
TELEPHONE:  Office: (619) 388-7663 or Tool-Crib: (619) 388-7305  
OFFICE HOURS:  Mon.-Wed. 1:30pm to 2:30pm; Thu. 10:15am to 11:15am  
E-MAIL:  dbuser@sdccd.edu  
WEB SITE:  http://faculty.sdmiramar.edu/faculty/sdcd/dbuser/index.asp  

COURSE TITLE:  AVIM 101G General Aviation Technology Theory I  

* Material will be covered in a block format.  

BLOCK A: Aerodynamics Theory, Flight Controls, and Aircraft Structures  

BLOCK B: Forms, Publications, and Weight and Balance Theory.  

SUBJECT AREA AND COURSE NUMBER:  
Aviation Maintenance Technology (AVIM) 101G.  
Course CRN # 08786  

CLASS MEETS:  Mon. - Tue.  7:00 am to 10:10am  

CATALOG COURSE DESCRIPTION:  
Block A.  
The study of aircraft nomenclature and structure, basic aerodynamic theory, stability,  
primary and secondary flight controls, fixed and rotor wing principles of operation.  

Block B.  
The study of FAA and aircraft specifications, type certificate data sheets, manuals,  
publications, and related Federal Aviation Regulations, forms and records.  The study  
of weight and balance theory, ground operation and servicing.  

This course is not open to students with credit for AVIM 100, 101A, or 101B  

COURSE STUDENT LEARNING OUTCOMES:  

Block A.  Upon completion of this block the student will have a working knowledge of:  
1. Basic aerodynamics.  
2. Theory of flight, control, and stability of fixed-wing and rotor-wing aircraft.  
3. Nomenclature, components, and structures of fixed-wing and rotor wing-aircraft.  

Block B.  Upon completion of this block the student will be able to:  
1. Understand FAA Type Certificates, Data Sheets, Airworthiness Directives, and  
   Federal Aviation Regulations to acceptable standards.  
2. Understand FAA forms and record entries to acceptable standards.  
3. Research and prepare aircraft weight & balance records to acceptable standards.
EVALUATION:
A. Block A and Block B grades will be determined on the following criteria:
   1. Quizzes = 50%
   2. Written assignments = 10%
   3. Final Exam = 40%
B. Quizzes will be given through each block of instruction with a minimum notice of one
   class period. Written assignment due dates will be announced in class when they are
   assigned. **Minimum passing grade for each block of instruction is 70%**.
C. Course grade will be the average of the Block A and Block B grades.
D. A maximum grade of 70% will be given for all make-up tests and/or projects as a result of
   unexcused absence. (See College Catalog, Academic Policies)
E. For further information regarding grading standards see “Attachment A” (Grading Policy)
F. **If a student fails to complete all required Quizzes, Projects, or Federal Time
   Requirements, an unsatisfactory grade will be issued.**
G. Federal Aviation Regulations require that all grades and attendance be recorded and
   maintained on file subject to Federal Audit. A copy of the Course Record Sheet used to
   fulfill this regulation is attached. A student may review this document upon request.

METHOD OF INSTRUCTION:
Lecture, demonstration, and class discussion, supported by various forms of audio-visual
aids.

TEXT AND SUPPLIES: Texts and supplies listed in **Bold** are required

- FAA Advisory Circular AC 43.13-1B/2B  *Acceptable Methods, Techniques, and
  Practices*
- Federal Aviation Regulations for Mechanics (FAR/AMT)
- Standard Aircraft Handbook; Larry Reithmair
- Dictionary of Aeronautical Terms, 5th edition, Dale Crane
- Aircraft Basic Science; GLENCOE Series; Kroes & Rardon
- Aircraft Maintenance & Repair; GLENCOE Series; Kroes, Watkins & Delp
- General Test Guide: ASA
- Scientific calculator
- Scantron Test Answer Sheets
- Three-ring loose leaf binder
- Pen and #2 pencil
### Reading Assignments

<table>
<thead>
<tr>
<th>Chapter References</th>
<th>Atmosphere and Physical Dynamics</th>
<th>Terminology and Flight Theory</th>
<th>Stability and Flight Controls</th>
<th>Structures</th>
<th>Regulations and Documentation</th>
<th>Weight and Balance / Ground Handling</th>
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<td>Basic Science (Glencoe)</td>
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<td>3, 4</td>
<td>4, 5</td>
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<td>13, 14</td>
<td>7, 15</td>
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<tr>
<td>Maintenance and Repair (Glencoe)</td>
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</tbody>
</table>

This reading assignment is parallel to AVIM 102G

**NOTES:**
1. Cell Phones, Pagers, and any other Electronic Devices must be turned off during class hours. Cell phones may not be used as calculators when taking quizzes or tests.
2. No eating, chewing gum, smoking or chewing tobacco (including snuff) is allowed in the classroom.
3. The shop computers are for instructional purposes only. Viewing of inappropriate web-sites is forbidden.
4. Students are allowed in faculty areas by invitation only.
5. The instructor reserves the right to change the above Syllabus and schedule with prior notice.
6. Mandatory attendance is established by Chapter 14 Combined Federal Regulations Part 147 (14 CFR Part 147), as well as District Policy. Each block of instruction will be eight (8) weeks minimum to meet the FAA time requirements (48 hours for each block of instruction). Any additional days will be used for continued instruction or review. For detailed information see “Attachment A” (Attendance Policy)

**Attachment A**

**Grading Policy**
The following uniform grading criteria have been adopted by the instructional staff, conform to district policy, and are approved by the Federal Aviation Administration (FAA).

The minimum passing grade for **Blocks A and B** shall be satisfactory (70%). **A less than satisfactory grade in either block will require the student to repeat the entire course.**
The FAA requires a satisfactory grade for each block within a course. Therefore, a passing academic grade does not necessarily constitute an FAA certification grade. If make-up time, projects or tests are not completed, an unsatisfactory grade will be issued. (See College Catalog)

Academic letter grades and their equivalent will be assigned in the following manner:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Equivalent</th>
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<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
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<td>B</td>
<td>Good</td>
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<td>C</td>
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<tr>
<td>D</td>
<td>Unsatisfactory</td>
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<tr>
<td>F</td>
<td>Failing</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
</tbody>
</table>

(See College Catalog)

**Attendance Policy.**
The following uniform attendance policy has been adopted by the instructional staff, conforms to district policy, and is approved by the Federal Aviation Administration (FAA).

**Instructional Hours:** Curriculum hours required for issuance of the certificate(s) of completion shall meet or exceed the standards established in 14 CFR Part 147.

**Minimum Attendance:** Students are required to comply with the district attendance standards as identified in the school catalog. These standards state in part:

1. The student is expected to attend each scheduled class meeting for which he/she is registered. The student is expected to be on the premises, actively involved in project work, except for scheduled breaks, for the duration of each class.
2. The instructor may excuse absences when the absence results from illness, accidents, circumstances beyond the student’s control, or participation in authorized professional or college activities.
3. All missed work and time must be made up, regardless of the reason work or time was missed.
4. Any student accumulating absences which exceed 6% of the total hours that a class is scheduled to meet during its full term, may be dropped by the instructor.
5. Time loss resulting from absences and/or tardiness equaling 12% shall be cause for the cancellation of the student’s enrollment in the course.
6. Tardiness and leaving class early may be treated in the same manner as are absences within the discretionary authority of the instructor as spelled out in the course syllabus.
7. Students must notify the instructor, either by telephone or by e-mail, when they expect to be absent.
8. It is the student’s responsibility to drop all classes in which he/she is no longer attending.
9. Failure to attend class can result in either a lower grade or, as stated above and with due warning, cancellation of enrollment.

The curriculum hours may exceed the minimum hours required by 14 CFR Part 147. Students attendance must meet FAA minimums as identified in the Course Record Sheet. Any scheduled time above the FAA minimums may be used as make up time at the end of the semester. Satisfaction of the time responsibility is required for issuance of a certificate(s) of completion.
Provisions for attendance Make-up: Student absence shall be made up when the number of hours missed prevents meeting the minimum hours required in each course of the approved curriculum.

Make up for lecture classes will be obtained through coordination with the course instructor, who will provide a list of topics covered, work assigned, and materials required. The instructor will provide guidance and access to information, but the responsibility for collating and learning the assigned materials is primarily the student’s.

Makeup times shall be restricted to time periods when a General Instructor is in attendance. For this class the available time periods shall be as follows:

Monday through Thursday:

• 6:00am to 7:00am
• 1:30pm to 2:30pm
• 7:30pm to 11:00pm.

Friday: as determined by the Instructor

Time cards will be used to record start and stop times and a General Instructor’s initials will be required to validate these entries. Recorded times without the Instructor’s initials will not be accepted as valid and will not count toward accumulated makeup time.

Subject: Students with Disabilities
Students with disabilities who may need academic accommodations should contact the instructor as soon as possible. Appropriate accommodations can be identified through coordination with the Disability Support Programs and Services (DSPS) Department. DSPS is located in Bldg. K-204 and can be reached at (858) 536-7212 or (619) 388-7312.
**AVIM 101G**

**SAN DIEGO COMMUNITY COLLEGE DISTRICT**

**MIRAMAR COLLEGE**

**AVIATION MAINTENANCE TECHNOLOGY**

FAA School Number CM9T065R

Course Record Sheet

<table>
<thead>
<tr>
<th>Course Number: AVIM 101G</th>
<th>Final Grade: __________</th>
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<tbody>
<tr>
<td><strong>Student Name:</strong></td>
<td><strong>Student No.:</strong></td>
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</table>

Min. Req. Hr.:  48 per block

Course Hours:  48 per block

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<tr>
<th>Attended Hr.</th>
<th>Make-up Hr.</th>
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<td>-B-</td>
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<table>
<thead>
<tr>
<th>-A-</th>
<th>-B-</th>
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<tbody>
<tr>
<td>Quizzes:</td>
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</table>

Quiz Avg.:  

Written Assignment

Final Exam: 

Course Grade:  

NOTE: Course Grade = (QZ AVG. X 0.5) + (WRITTEN ASINMT X 0.1) + (FN XM X 0.4)

Semester  

Fall 2017  

D. Buser
Conduct and Academic Honesty

All students are expected to act with civility and personal integrity and to respect other students’ dignity, rights and property, in order to help create and maintain an environment in which all can succeed through the fruits of their own efforts. An environment of academic integrity is requisite to respect for self, others, and a civil community.

Academic integrity includes a commitment to refrain from engaging in or tolerating acts of falsification, misrepresentation, or deception. Such acts of dishonesty include cheating or copying, plagiarizing, submitting another person’s work as your own, tampering with the work of another student, facilitating other students’ acts of dishonesty, etc.

Sanctions for breaches in academic integrity may range, depending on the severity of offense, from an award of an “F” or “0” on an assignment to an award of an “F” for the course. Severe cases and/or repeat offenses of academic dishonesty may also result in more severe disciplinary sanctions up to and including suspension or expulsion.

All students have the right to a campus learning environment free from interference or disruption as per the Student Code of Conduct, Policy 3100, which may be found online at http://www.sdccd.edu/docs/policies/Student%20Services/BP%203100.pdf. As such, any disruptive behavior which interferes with the legitimate instructional, administrative, or service functions of the college may subject the responsible individual to disciplinary action. Some examples of unacceptable behavior may include

- Use of profanity
- Verbal disruption
- Verbal or physical intimidation
- Harassment of others
- Blatant disregard for classroom or shop rules
- Physical threats or violence

Actions against such behavior may range from verbal or written warnings up through formal disciplinary hearings. In the event of severe cases of disruptive behavior, the instructor has the right to remove the individual from class on the day of the offense and for the following class period.