ARIZONA WESTERN COLLEGE
SYLLABUS

AVN 150 NAVIGATION & FLIGHT PLANNING

Credit Hours: 3 Lecture: 3

PREREQUISITE: None

Course Description
Develops VFR (Visual Flight Rules) navigation and flight-planning skills using aeronautical charts, pilotage, dead reckoning, navigation systems, airport information, aircraft performance data, fuel requirements, and current flight information. Students prepare complete cross-country plans and evaluate alternatives for changing flight conditions.

1. COURSE GOALS
   1.1 Develop practical VFR navigation and cross-country planning skills.
   1.2 Integrate charts, navigation calculations, aircraft performance, fuel, and flight information.
   1.3 Apply planning and diversion concepts to realistic VFR cross-country scenarios.

2. OUTCOMES
   Upon successful completion, students will be able to:
   2.1. Interpret sectional charts and aeronautical chart symbols.
   2.2. Apply pilotage and dead reckoning to VFR navigation.
   2.3. Calculate headings, groundspeed, time, distance, and fuel requirements.
   2.4. Explain the fundamentals and limitations of GPS, VOR, and other applicable navigation systems.
   2.5. Use Chart Supplements, NOTAMs, airport information, and current flight-planning resources.
   2.6. Prepare and interpret a navigation log.
   2.7. Develop lost-procedure and diversion strategies.
   2.8. Prepare and present a complete VFR cross-country flight plan incorporating route, fuel, performance, airports, alternatives, and risk considerations.
3. METHODS OF INSTRUCTION
   3.1 Lecture
   3.2 Multi-media Presentations
   3.3 Group Discussions

4. LEARNING ACTIVITIES
   4.1 Sectional Chart and Navigation Exercises

4.2 Navigation and Flight Planning Calculations
4.3 VFR Cross-Country Planning Assignments

5. EVALUATIONS
   5.1 Quizzes/Exams
   5.2 Assignments
   5.3 Participation

6. STUDENT RESPONSIBILITIES
   6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
   6.2 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
   6.3 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through Accessibility Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
   6.4 Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
   6.5 Texts and Notebooks: Students are required to obtain the class materials for the course.
   6.6 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester. Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid. For online classes, student attendance in an online class is defined as the following (FSA Handbook, 2012, 5-90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computer-assisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course