

AVIATION MAINTENANCE SCIENCE DEPARTMENT

<u>FACULTY/STAFF</u>	<u>TITLE</u>	<u>EXT</u>	<u>ROOM</u>
Billette, Travis	<i>Instructor</i>	67041	EBM 211
Beckwith, Rick	<i>Instructor</i>	67969	EBM 226
Bilbao, Roxanne	<i>Business Manager</i>	66787	EBM 225
Carta, Chris	<i>Marketing Manager</i>	67617	EBM 210
Fulbright, Neill	<i>Instructor</i>	66651	EBM 218
Geraci, Mitch	<i>Associate Professor</i>	66773	EBM 214
Hammer, Kris	<i>Instructor</i>	38082	COA 137B
Hancock, Doug	<i>Associate Professor</i>	66376	EBM 213
Horning, Chuck	<i>Chairman</i>	67693	EBM 216
Kent, Tim	<i>Assistant Professor</i>	67755	COA 137C
Lacy, Jay	<i>Instructor</i>	67108	EBM 209
Lee, Chris	<i>Instructor</i>	66795	COA 137E
Malis, Jim	<i>Assistant Professor</i>	35067	EBM 227
Dr. Martinez, Isaac	<i>Program Coordinator</i>	66788	EBM 219
Mikesell, Lorrie	<i>Administrative Assistant</i>	66779	EBM 208A
Neal, George	<i>Assistant Professor</i>	66377	COA 137D
Norman, Jim	<i>Assistant Professor</i>	66769	EBM 212
Piccone, Chris	<i>Instructional Specialist</i>	66775	Q 157B
Sault, Earl	<i>Facility Supply Specialist</i>	66782	EBM 113B
Sonnenfeld, Roger	<i>Instructor</i>	64937	EBM 111B
Spahn, Chris	<i>Technician Assistant</i>	64938	EBM 111B
Tetterton, Marshall	<i>Associate Professor</i>	66833	EBM 215
Wheeler, Ian	<i>Instructor</i>	66772	COA 137F
Wickard, Walt	<i>Associate Professor</i>	66783	COA 137H
Yanus, Tom	<i>Associate Professor</i>	35079	EBM 217

AVIATION MAINTENANCE SCIENCE



STUDENT HANDBOOK

EMBRY-RIDDLE
Aeronautical University.
DAYTONA BEACH, FLORIDA

Grading Policy

- The Aviation Maintenance Science Department operates under FAA approved grading policy
- Grading under this policy is calculated on a 7-point scale:

Letter Grade	Grade Scale	Std. GPA
A	93 – 100	4
B	85 – 92	3
C	77 – 84	2
D	70 – 76	1
F	69 and below	0

- Grades at ERAU are reported throughout a semester early grades, mid-term, and final grade
- Any student not making satisfactory progress will have an interim grade of unsatisfactory reported into the system
- Unsatisfactory progress in the AMS curriculum is considered to be any grade below a 77

Avionics Line Maintenance Minor

- The Avionics Line Maintenance (ALM) addresses the industries increasing reliance on avionics and the changing technologies.
- ALM covers general aviation avionics systems, air transport avionics systems, and advanced test equipment.
- The ALM curriculum is an accredited National Center for Aerospace & Transportation Technologies (NCATT) training provider.
- ALM class schedule follows the AMS start and ending days, however, ALM classes are held every day each semester from 08:00 to 15:00, M-F.

ALM Certifications and Licenses

- Federal Communications Commission (FCC)
- General Radio Telephone Operators License (GROL)
- NCATT Aircraft Electronics Technician (AET)
 - ◊ Endorsements to the AET
 - ◆ Autonomous Navigation System
 - ◆ Dependent Navigation Systems
 - ◆ Radio Communication Systems
- Electronics Technician Association International (ETA-I)
- Associate Certified Electronic Technician (CET)
 - ◊ Avionics Journeyman CET

ALM General Tool Kit

1. Digital Multimeter
2. Small electrical flush cut pliers
3. Magnifying glass

Storage Locker Rental

- Lockers are located on the 2nd Floor of the AMS Building
- Please see Mr. Earl Sault, EBM 113B Ext: 66782, if interested in renting a locker.
- Rental Fee is \$10 per Semester for Standard size and \$15 per Semester for Large size

Dress and Safety Codes

- All Lab environments will require the student(s) to have long pants, shirt or blouse (no midriff showing) with sleeves and closed toe athletic or work shoes “NO EXCEPTIONS”
- All Labs require the use of safety glasses to be worn at ALL times.. Safety glasses must meet Z87+ specifications.
- Students not conforming to these policies will be asked to leave the Lab, making him or her responsible for the material missed.

Tool Requirement

- Every student is required to have his or her own tools
- Tools can be purchased from “any source” as long as you have the complete kit described on tool kit listing(s)
- Complete General and Advanced kits are available at the Bookstore

AMS Comprehensive Exams

- AMS Comprehensive Examinations (Comp Exam) are the means by which a student completes the schools requirements and earns a completion certificate
- There are 2 exam dates every semester
 - ◊ First Exam date – prepaid costs associated
 - ◊ Re-Test date – additional costs
- Students cannot register for a Comp Exam after the date of the “Last Day to Add Classes” in a semester
 - ◊ You must register for Comp Exams in Campus Solutions
 - ◊ NO student will be allowed to register after the last day to add classes
 - ◊ 100% refund of comp exam charges up to the last day of late registration
- You are encouraged to take the first exam after you have successfully completed the General curriculum
 - ◊ General – AMS 190
 - ◊ Airframe – AMS 290
 - ◊ Powerplant – AMS 390

Airframe & Powerplant Certification

- It is recommended that you take your testing as you progress in the program, but you have the option of taking them all at the end of the AMS curriculum
- There are 3 subject areas:
 - ◊ General
 - ◊ Airframe
 - ◊ Powerplant
- After completing each subject area
 - ◊ You will be given a Comprehensive Exam and certificate of completion
 - ◊ Written exam will be taken at the FAA testing Center located on the first floor of the COA building #341
 - ◊ Orals & Practical's (O's & P's) will be given by one of our AMS Designated Mechanic Examiner(s) (D.M.E.)



Advanced Tool Kit

1. 3/16—3/8 Combo ignition wrench set with pouch
2. 3/8" drive ratchet set w/extension
3. 3/8" drive 12-pt socket, 3/8"
4. 3/8" drive 12-pt socket, 7/16"
5. 3/8" drive 12-pt socket, 1/2"
6. 3/8" drive 12-pt socket, 9/16"
7. 3/8" drive 12-pt socket, 5/8"
8. 3/8" drive 12-pt socket, 11/16"
9. 3/8" drive 12-pt socket, 3/4"
10. Tool control for sockets
11. 1/2" drive deep-well spark plug socket, 6-pt
12. 3/8" drive flex handle
13. 3/8" drive 6-pt socket, 7/16"
14. 3/8" drive 12-pt socket, 13/16"
15. 3/8" drive 6-pt. socket, 9/16"
16. 3/8" drive 6-pt socket, 7/8"
17. 3/8" to 1/4" adapter
18. 1/4" to 3/8" adapter
19. 3/8" to 1/2" adapter
20. 1/2" to 3/8" adapter
21. Torx T-20 bit or screwdriver
22. 1/4" drive flex handle
23. 12pt 1/4" drive socket set 1/4—9/16"
24. 1/4" drive ratchet
25. 1/4" drive 6" extension
26. 1/4" drive universal joint
27. Allen wrench set: .028", .035", 3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"
28. Feeler gauge, tapered leaf .0015-.025
29. Flexible magnet pick-up tool
30. Stripper for wire, size No. 14-22
31. 1/4" drive long shank driver
32. 10" Crescent Wrench
33. 40w soldering iron
34. 5" Flush cut plier

AMS 116 Tool List

1. Digital Multimeter with 50,000 OHMS/Volt DC—10,000 OHMS/Volt AC capability
2. Electronic parts kit—must be purchased at Bookstore
3. Scientific Calculator TI-30Xa

General Tool Kit

1. Duckbill pliers, 7 3/4" long
2. Diagonal cutting pliers, 6 1/3" long
3. Needle nose Pliers, 6" long
4. 6" Slip-joint pliers
5. Center punch, 5" long
6. Pin punch 3/32" diameter
7. Pin punch 1/8" diameter
8. Pin punch 5/32" diameter
9. Pin punch 3/16" diameter
10. Pin punch 1/4" diameter
11. Chisel, 1/2" wide x 5 1/2" long
12. Ball peen hammer, 8 oz.
13. Plastic tip hammer, 16 oz.
14. Hacksaw for 10-12" blades
15. Hacksaw blades 32 teeth (2 ea.)
16. Flat file, 10"
17. Half round file, 10"
18. Round file, 10"
19. Flat file, 6"
20. 4" file set
21. Adjustable file handle
22. 6" divider
23. 6" ruler with 1/64, 1/32, 1/16, & 1/8" scales
24. 10' flexible steel tape, 3/4 blade
25. Combination square with 1/64", 1/32", 1/16", & 1/8" scales
26. Safety glasses
27. Hearing Protection, ear muffs control pouch (Must withstand a min. of 23 decibels)
28. Double point scribe
29. No. 2 Phillips screwdriver 6" long
30. 6" long, 5/16" Straight Slot Screwdriver
31. Aviation snip set (straight, right, left cut)
32. 3/32" Twist drill
33. 1/8" Twist drill (2 ea.)
34. 5/32" Twist drill
35. 3/16" Twist drill
36. 5/16" Twist drill
37. 7/16" Twist drill
38. 3/8" Twist drill
39. 1/4" Twist drill
40. No. 03 Twist drill
41. No. 10 Twist drill.
42. No. 11 Twist drill
43. No. 21 Twist drill
44. No. 22 Twist drill
45. No. 27 Twist drill
46. No. 29 Twist drill
47. No. 30 Twist drill (2 ea.)
48. No. 31 Twist drill
49. No. 40 Twist drill
50. No. 41 Twist drill
51. No. 51 Twist drill
52. Letter F twist drill
53. Letter I twist drill
54. Letter Q twist drill
55. Tool Bag
56. Flashlight
57. Inspection mirror
58. Fractional, Numbered, and Letter Drill Control Pouch
59. Respirator
60. Tool Control Pouch for Combo Wrenches
61. Combo 12-pt wrench 3/8"
62. Combo 12-pt wrench 7/16"
63. Combo 12-pt wrench 1/2"
64. Combo 12-pt wrench 9/16"
65. Combo 12-pt wrench 5/8"
66. Combo 12-pt wrench 11/16"
67. Combo 12-pt wrench 3/4"
68. Combo 12-pt wrench 7/8"
69. Combo 12-pt wrench 15/16"
70. Combo 12-pt wrench 1"
71. Combo 12-pt wrench 1/4"
72. Combo 12-pt wrench 5/16"

Use of Tobacco & Nicotine

- Embry-Riddle Aeronautical University is Tobacco Free
- Students are prohibited from using any form of tobacco products to include cigarettes, cigars, pipes, dipping/snuff, smokeless cigarettes, electronic cigarettes/vaping, hookahs and chewing tobacco.
- If you are caught with Tobacco products in or around the AMS Building, including behind AMS Hangar, Observatory on the 2nd and 3rd floors, you will be reported to the Dean of Students Office

Random Drug Testing

Safety is a primary concern for the AMS Department, the University, the FAA and the Aviation Industry. For this reason, the AMS Department has a random drug testing program. Students in AMS classes are subject to random drug testing at any time during a semester.

- Students are randomly selected for a drug test
- When selected for a drug test, you must check-in for the test in accordance with the date and time that will be on the notification you receive
- Testing is conducted by licensed independent medical personnel who adhere to state and federal testing requirements
- Refusal to test or not show up for testing, will result in "positive test" actions
- Students that test positive, will be referred to the Dean of Students Office. Sanctions for positive test can include dismissal from the University
- Additional information on the University's drug policy can be found in the Student Handbook