

AVIATION MAINTENANCE (AVMX)

AVMX 339 UAS Airframe 2 Credit Hour(s)

Prerequisite: (AVMT 100 and AVMT 102 and AVMT 104 and AVMT 106 and AVMT 200 and AVMT 202 and AVMT 204 and AVMT 206 and AVMT 208 and AVMT 210 and AVMT 214 and AVMT 216 and AVMT 218 and AVMT 312 and AVMT 320) or (AVMT 101 and AVMT 102 and AVMT 103 and AVMT 104 and AVMT 105 and AVMT 106 and AVMT 201 and AVMT 202 and AVMT 203 and AVMT 204 and AVMT 205 and AVMT 206 and AVMT 207 and AVMT 208 and AVMT 209 and AVMT 213 and AVMT 214 and AVMT 215 and AVMT 217 and AVMT 219 and AVMT 221 and AVMT 312 and AVMT 320)

Offered: Resident

AVMX 349 UAS Powerplant 2 Credit Hour(s)

Prerequisite: (AVMT 100 and AVMT 102 and AVMT 104 and AVMT 106 and AVMT 200 and AVMT 202 and AVMT 204 and AVMT 206 and AVMT 208 and AVMT 210 and AVMT 214 and AVMT 216 and AVMT 218 and AVMT 312 and AVMT 320) or (AVMT 101 and AVMT 102 and AVMT 103 and AVMT 104 and AVMT 105 and AVMT 106 and AVMT 201 and AVMT 202 and AVMT 203 and AVMT 204 and AVMT 205 and AVMT 206 and AVMT 207 and AVMT 208 and AVMT 209 and AVMT 213 and AVMT 214 and AVMT 215 and AVMT 217 and AVMT 219 and AVMT 221 and AVMT 312 and AVMT 320)

Offered: Resident

AVMX 359 UAS Ground Systems 2 Credit Hour(s)

Prerequisite: (AVMT 100 and AVMT 102 and AVMT 104 and AVMT 106 and AVMT 200 and AVMT 202 and AVMT 204 and AVMT 206 and AVMT 208 and AVMT 210 and AVMT 214 and AVMT 216 and AVMT 218 and AVMT 312 and AVMT 320) or (AVMT 101 and AVMT 102 and AVMT 104 and AVMT 105 and AVMT 106 and AVMT 201 and AVMT 202 and AVMT 203 and AVMT 204 and AVMT 205 and AVMT 206 and AVMT 207 and AVMT 208 and AVMT 209 and AVMT 213 and AVMT 214 and AVMT 215 and AVMT 217 and AVMT 219 and AVMT 221 and AVMT 312 and AVMT 320)

Offered: Resident

AVMX 418 Principles of Troubleshooting 3 Credit Hour(s)

Online Prerequisite: (((pre2016) SAT Writing with a score of 480 or SAT Test Writing/Language with a score of 28 or ACT English with a score of 19 or Placement Score-English with a score of 70 or ENGL 101 or ENGL 102 or ENGL 201 or ENGL 202 or ENGL 215 or ENGL 216 or ENGL 221 or ENGL 222) and (Placement Score-Math with a score of 75 or MATH 114 or MATH 115 or MATH 116 or MATH 117 or MATH 121 or MATH 122 or MATH 125 or MATH 126 or MATH 128 or MATH 130 or MATH 131 or MATH 201 or MATH 217) and AVMT 312)

This course will provide the students with a logical and systematic process for troubleshooting aircraft systems. The student will learn and understand processes of troubleshooting and then apply them to realistic aviation problems to refine their troubleshooting skills.

Offered: Online

AVMX 428 Advanced Electronics 3 Credit Hour(s)

Online Prerequisite: (((pre2016) SAT Writing with a score of 480 or SAT Test Writing/Language with a score of 28 or ACT English with a score of 19 or Placement Score-English with a score of 70 or ENGL 101 or ENGL 102 or ENGL 201 or ENGL 202 or ENGL 215 or ENGL 216 or ENGL 221 or ENGL 222) and (Placement Score-Math with a score of 75 or MATH 114 or MATH 115 or MATH 116 or MATH 117 or MATH 121 or MATH 122 or MATH 125 or MATH 126 or MATH 128 or MATH 130 or MATH 131 or MATH 201 or MATH 217) and AVMT 202)

This course will review basic electrical theory, including DC and AC and then expand on this knowledge by introducing advanced electrical concepts including digital electronics, solid state electrical control devices, and radio theory with an emphasis on their application in modern aircraft.

Offered: Online

AVMX 445 Medium UAS Maintenance I 3 Credit Hour(s)

Prerequisite: AVIA 225 or AVIA 236 or AVIA 301 or AVMT 350

This course will provide the student with maintenance and crew chief training on a specific UAS platform. This training will include structural repair, avionics, power plant and systems training on the UAS platform.

Offered: Resident

AVMX 446 Medium UAS Maintenance II 3 Credit Hour(s)

Prerequisite: AVMX 445 (may be taken concurrently)

This course will provide the student with maintenance and crew chief training on a specific UAS platform. This training will include structural repair, avionics, power plant and systems training on the UAS platform.

Offered: Resident

AVMX 447 Medium UAS Maintenance III 3 Credit Hour(s)

Prerequisite: AVMX 445 and AVMX 446

This course will provide the student with maintenance and crew chief training on a specific UAS platform. This training will include structural repair, avionics, power plant and systems training on the UAS platform.

Offered: Resident

AVMX 451 Aviation Maintenance Operations 3 Credit Hour(s)

Resident Prerequisite: (AVMT 100 or AVMT 101 and AVMT 103 and AVMT 105) and AVMT 102 and AVMT 104 and AVMT 106 and (AVMT 200 or AVMT 201 and AVMT 203 and AVMT 205) and AVMT 202 or AVMT 204 and AVMT 206 and AVMT 208 and (AVMT 210 or AVMT 207 and AVMT 209)

Online Prerequisite: (((pre2016) SAT Writing with a score of 480 or SAT Test Writing/Language with a score of 28 or ACT English with a score of 19 or Placement Score-English with a score of 70 or ENGL 101 or ENGL 102 or ENGL 201 or ENGL 202 or ENGL 215 or ENGL 216 or ENGL 221 or ENGL 222) and (Placement Score-Math with a score of 75 or MATH 114 or MATH 115 or MATH 116 or MATH 117 or MATH 121 or MATH 122 or MATH 125 or MATH 126 or MATH 128 or MATH 130 or MATH 131 or MATH 201 or MATH 217) and AVMT 104)

A study of aviation maintenance-specific topics which face those in maintenance leadership positions. These topics include, but are not limited to, the need for maintenance; development of maintenance programs; technical planning, control, and training; and differing types of maintenance operations.

Offered: Resident and Online