

## College of Basic and Applied Sciences

### Upper Division Form 2020-2021 Catalog

**\*\*THIS CONCENTRATION REQUIRES A MINIMUM OF 133 CREDIT HOURS, AND  
ACHIEVE AT LEAST 70 PERCENT ON ALL PROJECTS, FINAL EXAMS, AND FINAL COURSE GRADES\*\***

Student name \_\_\_\_\_ Student # \_\_\_\_\_  
 Major   **AEROSPACE**   Minor \_\_\_\_\_  
 Concentration   **MAINTENANCE MANAGEMENT**   E-mail \_\_\_\_\_

Instructions: For students graduating in Summer 2020 or later. One (1) copy signed by major and minor advisors should be filed in DSB 120 three semesters before anticipated graduation. An Intent to Graduate form must also be filed in DSB 120 at the time of Upper Division Form submission.

General Education Area	Course	Semester	Grade	Notes	Credit Hours
<b>COMMUNICATION</b> (9 hours)	ENGL 1010				3
	ENGL 1020			Preq ENGL 1010 with a C- or better	3
	COMM 2200				3
<b>HISTORY</b> (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030					3
					3
<b>HUMANITIES AND/OR FINE ARTS</b> (9 hours) Choose one: ENGL 2020, 2030 or HUM 2610. Choose two different subjects: ANTH 2210, ART 1030, ART 1920, DANC 1000, HIST 1010, 1020, 1110, or 1120, MUS 1030, PHIL 1030, THEA 1030				Preq ENGL 1010 & 1020	3
					3
<b>MATHEMATICS</b> (3 hours) Choose one: <b>MATH 1010, 1530, 1630, 1710,1720, 1730, 1810, 1910</b>				<b>Program Requires MATH 1710</b> Must be completed with a C (2.0) or better	3
<b>NATURAL SCIENCES</b> (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111, BIOL 2010/2011, BIOL 2020/2021, <b>CHEM 1010/1011</b> , CHEM 1030/1031, CHEM 1110/1111, GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, <b>PHYS 2010/2011</b> , PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131				<b>Program requires one of the following - CHEM 1010/1011 or 1110/1111</b> Must be completed with a C (2.0) or better	4
				<b>Program requires PHYS 2010/2011</b> Must be completed with a C (2.0) or better Preq MATH 1710 with a C or better	4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours) Choose two different subjects: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, G.S 2010, HLTH 1530 / 1531, JOUR / EMC / RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100					3
					3
<b>Hours Required</b>					<b>41</b>

Major Courses - Grade of C (2.0) or better required in each major course	Course	Semester	Grade	Notes	Credit Hours
Introduction to Aerospace	<b>AERO 1010</b>				3
Theory of Flight	<b>AERO 1020</b>			Lab fee	3
Introduction to Aerospace Maintenance	<b>AERO 1340</b>			Fall only	3
Aerospace Maintenance Shop Practices	<b>AERO 1380</b>			Spring only	3
Airframe Inspection	<b>AERO 2331</b>			Spring only Preq or Coreq AERO 1340 & 1380	3
Powerplant Inspection	<b>AERO 2342</b>			Fall only, Preq or Coreq AERO 1340 & 1380	3
Aircraft Welding	<b>AERO 2371</b>			Fall only Preq AERO 1380	3
Non-Metallic Structures: Dope, Fabric, and Finishing	<b>AERO 2381</b>			Fall only Preq AERO 1380	3
Aerospace Materials	<b>AERO 3020</b>			Preq AERO 1010 & 1020; MATH 1810, 1530 or 1910	3
Propulsion Fundamentals	<b>AERO 3030</b>			Preq AERO 1010 & 1020	3
Sheet Metal Repair	<b>AERO 3301</b>			Spring only Preq AERO 1340, 1380 & 3020 ( or 3020 can be a Coreq)	3
Aerospace Reciprocating Engine Overhaul	<b>AERO 3322</b>			Fall only Preq AERO 1380 & 3030	3
Advanced Aerospace Engine Systems Maintenance and Repair	<b>AERO 3362</b>			Spring only Preq AERO 1380 & 3030	3
Aircraft Finishing and Non-Destructive Inspection	<b>AERO 3371</b>			Fall only Preq AERO 1380	3
Reciprocating Engine Maintenance Repair	<b>AERO 3392</b>			Preq AERO 1340, 1380, 3322	3

**Major requirements continued from previous page**

Aerospace Senior Capstone lab	<b>AERO 4040</b>			Preq AERO 1010, 1020 Pr/Creq: AERO 3020, 3030	1
Advanced Aerospace Vehicle Structural Repair	<b>AERO 4301</b>			Spring only Preq AERO 1340, 1380 & 3020 ( or 3020 can be a Coreq)	3
Aerospace Vehicle Systems	<b>AERO 4310</b>			Spring only Preq AERO 1010 & 1020	3
Aerospace Accessory Systems Maintenance and Repair	<b>AERO 4311</b>			Spring only Preq AERO 2331 & ET 3610	3
Turbine Engine System	<b>AERO 4312</b>			Fall only Preq AERO 1340, 1380 & 3030	3
Reciprocating Engine Troubleshooting	<b>AERO 4332</b>			Spring only Preq AERO 1340, 1380, 2342 & 3030	3
Turbine Engine Inspection and Troubleshooting	<b>AERO 4342</b>			Spring only Preq AERO 1340, 1380, 3030, 4312	3
Advanced Aerospace Vehicle Systems Overhaul	<b>AERO 4371</b>			Spring only Preq 1340, 1380, 4310 & ET 3610	3
Advanced Aerospace Accessory Systems Maintenance and Repair	<b>AERO 4381</b>			Fall only Preq AERO 1340, 1380, 4310 & ET 3610	3
Aerospace Turbine Engine Maintenance and Overhaul	<b>AERO 4392</b>			Fall only Coreq AERO 4312	3
Maintenance Management Capstone	<b>AERO 4340</b>			Last Semester of Senior Year	3
<b>Hours Required</b>					<b>76</b>

**Supporting Courses**

<b>Course</b>	<b>Semester</b>	<b>Grade</b>	<b>Notes</b>	<b>Credit Hours</b>
ET 2310			Must be completed with a C (2.0) or better	3
ET 3610			Preq MATH 1710 or 1730; Must be completed with a C (2.0) or better	4
MATH 1710			Credits can count in general education; Must be completed with a C (2.0) or better	0-3
MATH 1810			Preq MATH 1710 or 19 ACT; Must be completed with a C (2.0) or better	3
MGMT 3610 or E T 3910			Preq 60 or more credit hours; ET 3910 must be completed with a C (2.0) or better	3
MGMT 3810 or MGMT 4490 or MGMT 4510 or ENTR 4920			Preq MGMT 3610 for 4920	3
CHEM 1010 / 1011			Credits can count in general education; Must be completed with a C (2.0) or better	0-4
PHYS 2010 / 2011			Credits can count in general education; Preq MATH 1710 with a "C" or better; Must be completed with a C (2.0) or better	0-4
<b>Hours Required</b>				<b>16-27</b>

**Minor (Optional)**

<b>Course</b>	<b>Semester</b>	<b>Grade</b>	<b>Notes</b>	<b>Credit Hours</b>
<b>Hours Required</b>				

1. Degrees require a minimum of 120 semester hours completed with a cumulative and major GPA of 2.0 or higher. Minimum of 36 upper-division hours (3000/4000 level) and a minimum of 50 senior college hours (earned at four-year University) also required.
2. A minimum of 12 credits must be earned at the 3000/4000 level in each major

<b>Signed:</b>		
	<b>Major Advisor</b>	<b>Date</b>