

**College of Basic and Applied Sciences  
Upper Division Form 2017-2018 Catalog**

Student name _____	Student # _____
Major <b>AEROSPACE</b>	Minors <b>Mathematics &amp; Engineering Technology</b>
Concentration <b>TECHNOLOGY</b>	E-mail _____

**Instructions:** For students graduating in Fall 2017 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	Course	Semester	Grade	Notes	Credit Hours
<b>COMMUNICATION</b> (9 hours)	COMM 2200				3
	ENGL 1010				3
	ENGL 1020			Preq ENGL 1010	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 2 with different rubrics: 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> (4 hours) *(Also counts as part of the Math Minor)	<b>MATH 1910*</b>			Preq MATH 1730 or ACT 26	3 of 4
<b>NATURAL SCIENCES</b> (8 hours)	CHEM 1010 / 1011				4
	PHYS 2110 / 2111			Preq MATH 1910 with C or better	4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 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 (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
Introduction to Aerospace	<b>AERO 1010</b>				3
Theory of Flight	<b>AERO 1020</b>				3
Aerospace Materials	<b>AERO 3020</b>			Preq AERO 1010, 1020 and MATH 1810	3
Propulsions Fundamentals	<b>AERO 3030</b>			Preq AERO 1010, 1020	3
Flight Safety	<b>AERO 3170</b>			Preq AERO 1020	3
Fundamentals of Aerodynamics	<b>AERO 3440</b>			Preq MATH 1910; PHYS 2110/2111	3
Aerospace Senior Capstone lab	<b>AERO 4040</b>			Preq 90 or more credit hours	1
Problems in Aerospace	<b>AERO 4071</b>				3
Airport Planning and Design	<b>AERO 4170</b>				3
Aerospace Vehicle Systems	<b>AERO 4310</b>			Spring only	3
Aircraft Performance	<b>AERO 4440</b>			Preq AERO 3440	3
<b>Hours Required</b>					<b>31</b>

Supporting and Elective Courses					
Supporting and Elective Courses	Course	Semester	Grade	Notes	Credit Hours
Calculus-Based Physics II and University Physics Laboratory II	PHYS 2120/2121			Preq PHYS 2111; MATH 1920 with a C or better	4
Computer Science I	CSCI 1170			Preq MATH 1730 with a "C" or better or 26 ACT	4
Computer Science II	CSCI 2170			Preq CSCI 1170 & MATH 1730 with a "C" or better or 26 ACT	4
<b>Hours Required</b>					12

Mathematics Minor – All courses must be completed with a 'C' or better.					
Minor Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
Calculus I*	MATH 1910*			(*3 credits counted in Gen. Ed.)	1 (4)
Calculus II	MATH 1920			Preq MATH 1910 with a "C" or better or ACT	4
Linear Algebra	MATH 2010			Preq MATH 1910 with a "C" or better	3
Calculus III	MATH 3110			Preq MATH 1920 with a "C" or better	4
Differential Equations I	MATH 3120			Preq MATH 1920 with a "C" or better	3
<b>Hours Required</b>					15* (18)
<b>Signed:</b>					
	<b>Minor Advisor</b>				<b>Date</b>

Engineering Technology Minor					
Minor Courses (2.0 GPA required)	Course	Semester	Grade	Notes	Credit Hours
Engineering Fundamentals	ENGR 1100			Preq MATH 1730 or Math ACT subscore 26	3
Engineering Thermodynamics	ET 3810			Preq ENGR 1100, MATH 1910 and PHYS 2110/2111	3
Statics	ENGR 2110			Preq ENGR 1100 & MATH 1910; Coreq PHYS 2110/2111	3
Dynamics	ENGR 2120			Preq ENGR 2110, MATH 1920	3
Strength of Materials	ET 3860			Can take ENGR 3560, Preq ENGR 2110	3
Vibration	ET 4830			Can take ENGR 3590 Preq ENGR 2120	3
Fluid Power	ET 4850			Can take ENGR 3550, Preq ENGR 1100, ET 3810	3
<b>Hours Required</b>					21
<b>Signed:</b>					
	<b>Minor Advisor</b>				<b>Date</b>

1. Degrees require a minimum of 120 semester hours with a 2.0 GPA, a minimum of 42 upper-division hours (30 at MTSU) with a 2.0 GPA, and a minimum of 60 senior college hours.
2. Learning Support courses do not count toward the 120-hour requirement or cumulative degree GPA.

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