

**School of Engineering and Engineering Technology**  
**ENGINEERING TECHNOLOGY, B.S.**  
**Aeronautical-Mechanical Concentration (MTAS)**  
**2018-19**  
**SUGGESTED COURSE SEQUENCE**

**First Semester - Fall**

**16 Hours**

___	AVTC	1001	1	Fndl Concepts of Aviation Studies Lab <sup>(1)</sup>
___	AVTC	1003	3	Fndl Concepts of Aviation Studies <sup>(1)</sup>
___	ENGL	1013	3	English Composition I
___	ENGR	1513	3	Intro to Engineering Practice I (Fall only)
___	LETU	1101	1	Cornerstones of Life & Learning
___	MATH	1252	2	Trigonometry <sup>(1)</sup>
___	MATH	1303	3	Precalculus <sup>(1)</sup>

**Second Semester - Spring**

**18 Hours**

___	AVTC	1401	1	Aircraft DC Electricity Lab <sup>(1)</sup>
___	AVTC	1403	3	Aircraft DC Electricity <sup>(1)</sup>
___	BIBL	1033	3	Biblical Literature
___	ENGR	1311	1	Manufacturing Processes Lab
___	ENGR	1523	3	Intro to Engineering Practice II (Spring only)
___	MATH	1603	3	Technical Calculus I (Spring only) <sup>(1)</sup>
___	PHYS	1111	1	General Physics I Lab (Spring only)
___	PHYS	1113	3	General Physics I (Spring only)

**Third Semester - Fall**

**16 Hours**

___	EETC	1041	1	AC Electricity Lab (Fall only) <sup>(1)</sup>
___	EETC	1042	2	AC Electricity (Fall only) <sup>(1)</sup>
___	ENGL	1023	3	English Composition II
___	MATH	1613	3	Technical Calculus II (Fall only)
___	METC	2013	3	Statics (Fall only) <sup>(1)</sup>
___	PHYS	1121	1	General Physics II Lab (Fall only)
___	PHYS	1123	3	General Physics II (Fall only)

**Fourth Semester - Spring**

**16 Hours**

___	AVTC	2231	1	Intro to Aircraft Systems Lab
___	AVTC	2232	2	Intro to Aircraft Systems
___	ENGR	2400	0	Sophomore Design Seminar (Spring only)
___	ENGR	2704	4	Project Mgmt, Design & Entrepreneurship
___	METC	2023	3	Dynamics (Spring only) <sup>(1)</sup>
___	THEO	2043	3	Biblical Theology for the Christian Life
___			3	Civic Engagement Elective

**Fifth Semester - Fall**

**16 Hours**

___	AVTC	3261	1	Aircraft Composites Lab (Fall only)
___	AVTC	3262	2	Aircraft Composites (Fall only)
___	AVTC	3612	2	Intro to Aircraft Gas Turbine Engines
___	CHEM	1111	1	General Chemistry I Lab
___	CHEM	1113	3	General Chemistry I
___	METC	3321	1	Strength of Materials Lab (Fall only)
___	METC	3323	3	Strength of Materials (Fall only)
___			3	Civic Engagement Elective

**Sixth Semester - Spring**

**17 Hours**

___	AVTC	2213	3	Aircraft Metal Structures
___	BIBL		3	Biblical Engagement Elective
___	EETC	3433	3	Instrumentation and Controls (Spring only)
___	METC	4412	2	Kinematics of Machines (Spring only)
___	METC	4433	3	Elements of Machine Design (Spring only)
___	METC	4513	3	Fluid Mechanics (Spring only)

**Seventh Semester - Fall**

**15 Hours**

___	EETC	3413	3	Electrical Machinery (Fall only)
___	ENGR	4813	3	Senior Design I (Fall only)
___	GETC	2313	3	Materials Technology (Fall only)
___	METC	3503	3	Thermodynamics & Heat Transfer (Fall only)
___	METC	4113	3	Engr Tech Measurements Lab (Fall only)

**Eighth Semester - Spring**

**15 Hours**

___	BUSI	3003	3	Foundations of Business for Engineers
___	COMM	1113	3	Intro to Speech Communication
___	ENGR	4823	3	Senior Design II (Spring only)
___	THEO		3	Theological Engagement Elective
___			3	Ingenuity Elective

**TOTAL HOURS 129**

1: Minimum grade of 'C' required.

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