

School of Engineering and Engineering Technology
ENGINEERING TECHNOLOGY, B.S.
Aeronautical-Mechanical Concentration (MTAS)
2023-24
SUGGESTED COURSE SEQUENCE

First Semester - Fall

14 Hours

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|-----|------|------|---|--|
| ___ | AVTC | 1001 | 1 | FndI Concepts of Aviation Studies Lab ⁽¹⁾ |
| ___ | AVTC | 1003 | 3 | FndI Concepts of Aviation Studies ⁽¹⁾ |
| ___ | ENGL | 1013 | 3 | English Composition I |
| ___ | ENGR | 1513 | 3 | Intro to Engineering Practice I (Fall only) |
| ___ | LETU | 1101 | 1 | Cornerstones of Life & Learning |
| ___ | MATH | 1303 | 3 | Precalculus ⁽¹⁾ |

Second Semester - Spring

18 Hours

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|-----|------|------|---|--|
| ___ | AVTC | 1401 | 1 | Aircraft DC Electricity Lab ⁽¹⁾ |
| ___ | AVTC | 1403 | 3 | Aircraft DC Electricity ⁽¹⁾ |
| ___ | BIBL | 1033 | 3 | Biblical Literature |
| ___ | ENGR | 1311 | 1 | Manufacturing Processes Lab |
| ___ | ENGR | 1523 | 3 | Intro to Engineering Practice II (Spring only) |
| ___ | MATH | 1253 | 3 | Trigonometry ⁽¹⁾ |
| ___ | PHYS | 1111 | 1 | General Physics I Lab (Spring only) |
| ___ | PHYS | 1113 | 3 | General Physics I (Spring only) |

Third Semester - Fall

17 Hours

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|-----|------|------|---|---|
| ___ | EETC | 1041 | 1 | AC Electricity Lab (Fall only) ⁽¹⁾ |
| ___ | EETC | 1042 | 2 | AC Electricity (Fall only) ⁽¹⁾ |
| ___ | ENGL | 1023 | 3 | English Composition II |
| ___ | MATH | 1604 | 4 | Technical Calculus (Fall only) ⁽¹⁾ |
| ___ | METC | 2013 | 3 | Statics (Fall only) ⁽¹⁾ |
| ___ | PHYS | 1121 | 1 | General Physics II Lab (Fall only) |
| ___ | PHYS | 1123 | 3 | General Physics II (Fall only) |

Fourth Semester - Spring

16 Hours

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|-----|------|------|---|--|
| ___ | 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) ⁽¹⁾ |
| ___ | THEO | 2043 | 3 | Biblical Theology for the Christian Life |
| ___ | | | 3 | Civic Engagement Elective |

Fifth Semester - Fall

17 Hours

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|-----|------|------|---|--|
| ___ | AVTC | 3261 | 1 | Aircraft Composites Lab (Fall only) |
| ___ | AVTC | 3262 | 2 | Aircraft Composites (Fall only) |
| ___ | BIBL | | 3 | Biblical Engagement Elective |
| ___ | 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) |
| ___ | METC | 3503 | 3 | Thermodynamics & Heat Transfer (Fall only) |

Sixth Semester - Spring

16 Hours

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|-----|------|------|---|---|
| ___ | AVTC | 2213 | 3 | Aircraft Metal Structures |
| ___ | AVTC | 2612 | 2 | Intro to Aircraft Gas Turbine Engines (Spring only) |
| ___ | EETC | 3433 | 3 | Instrumentation and Controls (Spring only) |
| ___ | METC | 4412 | 2 | Kinematics of Machines (Spring only) |
| ___ | METC | 4513 | 3 | Fluid Mechanics (Spring only) |
| ___ | | | 3 | Ingenuity Elective |

Seventh Semester - Fall

15 Hours

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|-----|------|------|---|--|
| ___ | EETC | 3413 | 3 | Electrical Machinery (Fall only) |
| ___ | ENGR | 4813 | 3 | Senior Design I (Fall only) |
| ___ | ENGR | 2313 | 3 | Materials Engineering |
| ___ | METC | 4113 | 3 | Engr Tech Measurements Lab (Fall only) |
| ___ | | | 3 | Civic Engagement Elective |

Eighth Semester - Spring

15 Hours

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|-----|------|------|---|--|
| ___ | BUSI | 3023 | 3 | Entrepreneurship for Engineers |
| ___ | COMM | 1113 | 3 | Intro to Speech Communication |
| ___ | ENGR | 4823 | 3 | Senior Design II (Spring only) |
| ___ | THEO | | 3 | Theological Engagement Elective |
| ___ | METC | 4433 | 3 | Elements of Machine Design (Spring only) |

TOTAL HOURS 128

1: Minimum grade of 'C' required.

rev 5/10/2023

