

# Aviation Maintenance Technology

## *Engineering & Information Technologies*

### 2024-2025 Curriculum

| Course     | Title                          | Pre-Reqs | Lec | Lab | Credit Hours |
|------------|--------------------------------|----------|-----|-----|--------------|
| Semester 1 |                                |          |     |     |              |
| AMT-100    | Aviation Standard Practices    |          | 4   | 6   | 6            |
| AMT-105    | Aircraft Orientation           |          | 2   | 5   | 4            |
| AMT-110    | Aircraft Electricity           |          | 3   | 3   | 4            |
| AMT-115    | Aircraft Weight and Balance    |          | 3   | 3   | 4            |
| FYE-1XX    | First Year Experience Elective |          | 1   | 0   | 1            |
| MAT-122    | Aviation Mathematics           |          | 2   | 2   | 3            |
|            |                                |          |     |     | 22           |

|            |                               |                     |   |   |    |
|------------|-------------------------------|---------------------|---|---|----|
| Semester 2 |                               |                     |   |   |    |
| AMT-120    | Aircraft Non-Metal Structures | AMT 105             | 3 | 4 | 5  |
| AMT-135    | Aircraft Landing Gear Systems | AMT 105 and MAT 122 | 3 | 5 | 5  |
| AMT-140    | Airframe Electrical Systems   | AMT 105 and AMT 110 | 4 | 4 | 6  |
| ENG-101    | English Composition 1         |                     | 3 | 0 | 3  |
| PHY-115    | Aviation Maintenance Physics  | MAT 122             | 3 | 3 | 4  |
|            |                               |                     |   |   | 23 |

|            |                               |                           |   |   |    |
|------------|-------------------------------|---------------------------|---|---|----|
| Semester 3 |                               |                           |   |   |    |
| AMT-125    | Aircraft Metal Structures     | AMT 100 and AMT 105       | 3 | 5 | 5  |
| AMT-145    | Airframe Electronic Systems   | AMT 105 and AMT 110       | 3 | 3 | 4  |
| AMT-150    | Airframe Systems              | AMT 100, 105, and 110     | 3 | 4 | 5  |
| AMT-155    | Airframe Assembly and Rigging | AMT 100, 105, and MAT 122 | 3 | 3 | 4  |
| AMT-160    | Airframe Inspection           | AMT 105 and AMT 115       | 1 | 2 | 2  |
| AMT-190    | Career Preparation: AMT       |                           | 1 | 0 | 1  |
|            |                               |                           |   |   | 21 |

|            |                                        |                     |   |    |    |
|------------|----------------------------------------|---------------------|---|----|----|
| Semester 4 |                                        |                     |   |    |    |
| AMT-191    | Part-time Cooperative Education 1: AMT | AMT 100             | 1 | 20 | 1  |
| AMT-201    | Powerplant Maintenance 1               | AMT 100 and AMT 105 | 4 | 6  | 6  |
| AMT-215    | Aircraft Propellers                    | AMT 105 and AMT 115 | 2 | 2  | 3  |
| ENG-104    | Technical Communication                | ENG 101             | 3 | 0  | 3  |
|            |                                        |                     |   |    | 13 |

|            |                                        |                     |   |    |    |
|------------|----------------------------------------|---------------------|---|----|----|
| Semester 5 |                                        |                     |   |    |    |
| AMT-192    | Part-Time Cooperative Education 2: AMT | AMT 191             | 1 | 20 | 1  |
| AMT-202    | Powerplant Maintenance 2               | AMT 201             | 4 | 6  | 6  |
| AMT-205    | Starting and Ignition Systems          | AMT 105 and AMT 110 | 3 | 4  | 5  |
|            |                                        |                     |   |    | 12 |

|            |                                        |                     |   |    |    |
|------------|----------------------------------------|---------------------|---|----|----|
| Semester 6 |                                        |                     |   |    |    |
| AMT-193    | Part-time Cooperative Education 3: AMT | AMT 192             | 1 | 20 | 1  |
| AMT-203    | Powerplant Maintenance 3               | AMT 202             | 4 | 6  | 6  |
| AMT-210    | Engine Fuel and Lubrication Systems    | AMT 100 and AMT 105 | 4 | 6  | 6  |
| PSY-110    | Introduction to Psychology             | ENG 101             | 3 | 0  | 3  |
|            |                                        |                     |   |    | 16 |

Total 107

First Year Experience Elective: FYE 100, FYE 105, FYE 110