## AMT 115 Aircraft Weight and Balance

**Course Description:** A course on foundation concepts and techniques related to aircraft weight and balance. Topics include: maintenance forms and records, and maintenance publications.

**Prerequisites(s):** No prerequisites

**Corequisite(s):** MAT 122

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| Lecture Hours: 3 | Lab Hours: 3 | Credit Hours: 4 |
| Lab Fee: 150 | Supplemental Fee: 0 | Purpose: |
| ☐ Transfer Assurance Guide Course (TAG) | ☐ Transfer Module Course (TM) | |
| Course Format: Lec/Lab | Grading: A/B/C/D/F/I | |
| Delivery Method: Classroom | | |
| Semesters Offered: Fall - Days, Spring - Evenings | | |

**Course Primary Text:**

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| Title: Aircraft Basic Science | Edition: 8th |
| Author(s): Kroes and Rardon | |
| Publisher: Glencoe | |

**Supplemental Materials:**

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| FAA FAR AMT Handbook, ASA Publishers |
| Advisory Circular (43.13-1B), U.S. Department of Transportation, Federal Aviation Administration |
| FAA 8083-30A, U.S. Department of Transportation, Federal Aviation Administration |

**Course Outcomes:**

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| 1 | Students will locate and interpret appropriate aircraft specifications. |
| 2 | Students will establish weight and measurements. |
| 3 | Students will solve weight and balance problems. |
| 5 | Students will write at least one formal technical report. |
| 6 | Students will write a description of a minor repair and a major repair in the aircraft records. |
| 7 | Students will fill out a sample form for a major repair or alteration. |
| 8 | Students will search the Airworthiness Directory Summary. |
| 9 | Students will locate, select and identify FAA Type Certificate Data Sheets. |
| 10 | Students will list airworthiness directives applicable to a specified make, model, and serial numbered airplane. |

**Course Topics:**

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| Course booklet with FAA approved practical projects and course lectures is located in the AMT Offices at the Cincinnati State West Campus. |

**Methods of Evaluation/Assessment**

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| Tests |
| Quizzes |
| Lab Projects |
| Lab & Class Participation |
| Attendance |

Course Keeper: Gary Goodpaster

Date Completed: April 01, 2019