

**Aerospace Engineering and Mechanics Graduate Program
MS-AEM Coursework Degree Requirement Checklist (Plan II)**

Student: _____ CWID #: _____

Start Date: _____ End Date: _____ Advisor: _____

Credit Hour Requirement: 30 total semester hours
30 hours of coursework
Six (6) Year Time Limit

**MAJOR
CORE COURSE REQUIREMENT (12 hours)**

Aerospace Track

	Credit		
	Hours	Grade	Term
AEM 500 Intermediate Fluid Mechanics	3	_____	_____
AEM 530 Continuum Mechanics	3	_____	_____
AEM 520 CFD or AEM 635 FEM	3	_____	_____
AEM 668 Advanced Dynamics of Flight	3	_____	_____

Mechanics Track

	Credit		
	Hours	Grade	Term
AEM 500 Intermediate Fluid Mechanics	3	_____	_____
AEM 530 Continuum Mechanics	3	_____	_____
AEM 562 Intermediate Dynamics	3	_____	_____
AEM 637 Theory of Elasticity	3	_____	_____

AREA OF SPECIALIZATION COURSES (6 hours)

Two (2) additional courses beyond the core in one of the following areas

- Dynamics, Flight Dynamics, Controls
- Fluid Mechanics, Aerodynamics, Propulsion
- Solid Mechanics, Flight Vehicle Structures and Materials

Course Name	Credit	Grade	Term
	Hours		
_____	3	_____	_____
_____	3	_____	_____

MINOR

MATHEMATICS COURSE REQUIREMENT (6 hours)

One course must be GES 554 Partial Differential Equations

	Credit		
	Hours	Grade	Term
GES 554 Partial Differential Equations	3	_____	_____
Other (approved) _____	3	_____	_____

Culminating Experience

submit written report

You may receive credit for doing a culminating experience by enrolling in AEM 594. AEM 594 can also be used as one of the "OTHER APPROVED COURSES". You do not have to enroll in AEM 594 in order to do a culminating experience.

OR

Pass one (1) PHD Qualifying Exam

OTHER APPROVED COURSES (6 hours)

one (1) course has to be in AEM

	Credit		
	Hours	Grade	Term
AEM _____	3	_____	_____
_____	3	_____	_____
_____	3	_____	_____

Date _____ Pass/Fail _____

Fluid Mechanics	_____	_____
Solid Mechanics	_____	_____
Dynamics	_____	_____
Mathematics	_____	_____

Admission to Candidacy

Admission to candidacy for the Master's degree can be filed after 12 semester hours of graduate credit is earned at UA. It should be approved by the time of registration for the semester in which requirements for degree are completed.

Degree Requirements (Aerospace Track)

Earn 3.0 average for the Core courses and GES 554

- AEM 500 Intermediate Fluid Mechanics
- AEM 530 Continuum Mechanics
- AEM 520 CFD or AEM 635 FEM
- AEM 668 Advanced Dynamics of Flight
- GES 554 Partial Differential Equations

Degree Requirements (Mechanics Track)

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- AEM 562 Intermediate Dynamics
- AEM 637 Theory of Elasticity
- GES 554 Partial Differential Equations