

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

Student: _____ CWID #: _____

Start Date: _____ End Date: _____ Advisor: _____

Credit Hour Requirement: 30 total semester hours
24 hours of coursework and 6 hours of thesis
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 (check one)

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

Course Name	Credit Hours	Grade	Term
_____	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	_____	_____

THESIS COURSE REQUIREMENT (6 hours)

AEM 599 Thesis Research

Credit Hours	Grade	Term
_____	_____	_____
_____	_____	_____
_____	_____	_____

A thesis and abstract must be made available for departmental review two weeks prior to the thesis defense.

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)

Earn 3.0 average for the Core courses and GES 554

- AEM 500 Intermediate Fluid Mechanics
 AEM 530 Continuum Mechanics
 AEM 562 Intermediate Dynamics
 AEM 637 Theory of Elasticity
 GES 554 Partial Differential Equations