

**Aerospace Engineering and Mechanics Graduate Program
MS-AE Thesis 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

AEM COURSE REQUIREMENT (9 hours)

	Credit Hours	Grade	Term
AEM 500 Intermediate Fluid Mechanics	3	_____	_____
AEM 635 Finite Element Methods	3	_____	_____
AEM 668 Advanced Dynamics of Flight	3	_____	_____

AREA OF SPECIALIZATION COURSES (6 hours)

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

<input type="checkbox"/>	Course Name	Credit Hours	Grade	Term
<input type="checkbox"/>	Aerodynamics and Propulsion	3	_____	_____
<input type="checkbox"/>	Flight Dynamics, Simulation & Controls	3	_____	_____
<input type="checkbox"/>	Flight Vehicle Structures & Materials	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 (REQUIRED)	3	_____	_____
AEM 585 Genetic Algorithms	3	_____	_____
AEM 587 Neural Networks	3	_____	_____
GES 551 Matrix and Vector Analysis	3	_____	_____
GES 658 Numerical Methods	3	_____	_____
Other (approved) _____	3	_____	_____

APPROVED ELECTIVE (3 hours)

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

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 time of registration for the semester in which requirements for degree are completed.

THESIS COURSE REQUIREMENT (6 hours)

	Credit Hours	Grade	Term
AEM 599 Thesis Research	—	_____	_____
	—	_____	_____
	—	_____	_____

Degree Requirements

earn 3.0 average for the core courses

- AEM 500 Intermediate Fluid Mechanics
- AEM 635 Finite Element Methods
- AEM 668 Adv Dynamics of Flight
- GES 554 Partial Differential Equations

A thesis and abstract must be made available for departmental review two weeks prior to the thesis defense. See Graduate Program Director before scheduling a Defense.