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

Student:_____ CWID #:_____

Start Date:_____ End Date:_____ Advisor:_____

Credit Hour Requirement: 30 total semester hours of coursework
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)

		Course Name	Credit Hours	Grade	Term
[ ]	Aerodynamics and Propulsion				
[ ]	Flight Dynamics, Simulation & Controls	_____	3	_____	_____
[ ]	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	_____	_____

OTHER APPROVED COURSES (9 hours)

one (1) course has to be in AEM

	Credit Hours	Grade	Term
AEM_____	3	_____	_____
_____	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.

Degree Requirements

earn 3.0 average for the core courses

[ ] AEM 500 Intermediate Fluid Mechanics
[ ] AEM 635 Finite Element Methods
[ ] AEM 668 Advanced Dynamics of Flight
[ ] GES 554 Partial Differential Equations

Culminating Experience

Culminating Project – AEM 594
submit written project report

_____

or

Pass one (1) PhD Qualifying Exam

	Date	Pass/Fail
Fluid Mechanics	_____	_____
Solid Mechanics	_____	_____
Dynamics	_____	_____
Mathematics	_____	_____