

**Master of Science Mechanical Engineering Degree
Program of Study and Final Defense Application**

Core courses

All graduate students in the MS program are required to complete:

Quarter	Grade	Number	Cr	Name
_____	_____	0304-870	4	Mathematics for Engineers I
_____	_____	0304-871	4	Mathematics for Engineers II

8 Total Core Credits

Focus Group Courses

Choose one Focus group:

Quarter	Grade	Number	Cr	Name
Group A—Mechanics/Design				
_____	_____	0304-758	4	Engineering Vibrations
_____	_____	0304-816	4	Finite Elements
_____	_____	0304-885	4	Advanced Mechanics of Solids

Group B—Systems/Controls				
_____	_____	0304-743	4	Control Systems
_____	_____	0304-840	4	Systems Modeling
_____	_____	0304-823	4	Signal Processing

Group C—Thermo/Fluids				
_____	_____	0304-830	4	Introduction to CFD Analysis
_____	_____	0304-838	4	Ideal Flows
_____	_____	0304-851	4	Convective Phenomena

12 Total Focus Group Credits

Required Elective courses**

Quarter	Grade	Number	Cr	Course Name
_____	_____	0304-7__	4	Graduate Elective 1 (700 or higher)
_____	_____	0304-7__	4	Graduate Elective 2 (700 or higher)
_____	_____	0304-__	4	Graduate or Technical Elective 3 (600 or higher)
_____	_____	0304-__	4	Graduate or Technical Elective 4 (600 or higher)

16 Total Elective Course Credits

Thesis

Advisor Approval

Quarter	Comp.	Number	Cr	
_____	_____	0304-890	_____	Thesis Research _____
_____	_____	0304-890	_____	Thesis Research _____
_____	_____	0304-890	_____	Thesis Research _____

9 Total Thesis Credits

45 Total Credits for Degree Completion

** For students that are in the BS/MS Program, no more than 12 credits can be double counted towards both degrees.

