

Mechanical Engineering MS – Modeling and Simulation in M. E. Curriculum Approval and Warrant Request Form

Student Name: _____ Wisc ID: _____

Wisc Email: _____ Admit Term: _____

Advisor: _____ Graduation Term: _____

*Degree Requirements include 30 credits minimum with at least 24 credits formal coursework, 15 formal ME credits taken at UW-Madison, 3 credits formal coursework at the 700+ level (ME 759), and 15 credits satisfying the Graduate School 50% Minimum Coursework Requirement. Review the ME Grad Handbook for additional information. Place * after term if course is from UW-Madison undergrad & attach required advisor approval form.*

Example of how to complete form tables:

Course Number	Course Title	Term & Year Taken	Grade	50%	Credits
ME 567	Solar Energy Technology	Spring 2020	A		3
ME 964	Adv Topics in ME: Nonlinear Elasticity	Fall 2020	IP	3	3

1. ME 903 (2 terms required)				Credits
ME 903 Graduate Seminar	Term 1 Grade:	Term 2 Grade:		0

2. Required Computing/Applications Courses (6 credits required)		Term Taken	Grade	50%	Credits
ME 459	Computing Concepts for Apps in Mechanical Engineering (50%)				
ME 759	High Performance Computing for Apps in Engineering (50%)				

3. Required Core Courses (12 credits required)		Term Taken	Grade	50%	Credits
ME 440	Intermediate Vibrations				
ME 451	Kinematic and Dynamics of Machine Systems				
ME 460	Applied Thermal/Structural Finite Element Analysis (50%)				
ME 531	Digital Design and Manufacturing (50%)				
ME 535	Computer-Aided Geometric Design (50%)				
ME 548	Introduction to Design Optimization (50%)				
ME 558	Introduction to Computational Geometry (50%)				
ME 564	Heat Transfer (50%)				
ME 573	Computational Fluids Dynamics (50%)				
ME 601	Topics: Medical Image Based Modeling (50%)				
ME 601	Topics: Applied & Computational Math w/Engr Apps (50%)				
ME 603	Topics: Finite Element Methods for Biomechanics				
ME 739	Advanced Robotics (50%)				
ME 748	Optimum Design of Mechanical Elements and Systems (50%)				
ME 751	Advanced Computational Dynamics (50%)				
ME 764	Advanced Heat Transfer I – Conduction (50%)				
ME 964	Topics: Two Phase Flow Theory and Computation (50%)				

4. All Additional Courses not listed above (No more than 6 credits ME 699 or non-formal coursework permitted)					
Course Number	Course Title	Term Taken	Grade	50%	Credits

Totals:				
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Faculty Advisor Signature: _____

Date: _____