

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Cellular Automata								
Dislocation Dynamics								
Molecular Dynamics								
Phase Field								
Finite Element								
Monte Carlo								
Finite Difference								

Grades

Aspect	Percent
Homework	20%
Midterm Exam	30%
Final Project Presentations	20%
Final Exam	30%

ABET-EAC Criterion 3 Outcomes

Course Contribution	College Outcome
	a An ability to apply knowledge of mathematics, science, and engineering.
	b An ability to design and conduct experiments, as well as to analyze and interpret data.
	c An ability to design a system, component, or process to meet desired needs.
	d An ability to function on multi-disciplinary teams.
	e An ability to identify, formulate, and solve engineering problems.
	f An understanding of professional and ethical responsibility.
	g An ability to communicate effectively.
	h The broad education necessary to understand the impact of engineering solutions in a global and societal context.
	i A recognition of the need for, and an ability to engage in life-long learning.
	j A knowledge of contemporary issues.
	k An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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