



Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Precipitation from solid solutions (nucleation, growth and coarsening)								
Coherency elastic strain and coherency transformations								
Martensitic transformations and dislocation dynamics								
Massive transformations, recrystallization and grain growth								
Computational thermodynamics and kinetics of phase transformations								

## Grades

Aspect	Percent
Assignment	50%
Exam	50%

## 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.

Prepared by: Mark Cooper