

Graduate Courses:

Concentration	Course	Title	Fall	Spring	Latest Syllabus
Common	MEC 507	Mathematical Methods in Engineering Analysis I	V	-	(Syllabus)
Thermal Science and Fluid Mechanics (TSFM)	MEC 501	Convective Heat Transfer and Heat Exchange	V	-	(Syllabus)
	MEC 502	Conduction and Radiation Heat Transfer	-	V	(Syllabus)
	MEC 511	Mechanics of Perfect Fluids	-	V	(Syllabus)
	MEC 521	Thermodynamics	-	-	(Syllabus)
	MEC 524	Computational Methods for Fluid Mechanics and Heat Transfer	-	-	(Syllabus)
Design and Manufacturing (DM)	MEC 500	Modeling and Control of Manufacturing Systems	-	-	(Syllabus)
	MEC 525	Product Design, Concept Development and Optimization	-	V	(Syllabus)
	MEC 529	Introduction to Robotics: Theory and Application	-	V	(Syllabus)
	MEC 532	Vibration and Control	-	-	(Syllabus)
	MEC 568	Advanced Dynamics	V	-	(Syllabus)
Solid Mechanics (SM): Structure	MEC 530	Applied Stress Analysis	V	-	(Syllabus)
	MEC 536	Mechanics of Solids	-	V	(Syllabus)
	MEC 539	Introduction to Finite Element Methods	-	-	(Syllabus)
	MEC 541	Elasticity	V		(Syllabus)
	MEC 543	Plasticity	-	-	:
	MEC 641	Fracture Mechanics	-	-	:
Common	MEC 599	Research (1~12 credits)	V	V	:
	MEC 691	Mechanical Engineering Seminar (0 credit)	V	V	:
	MEC 696	Special Problems in Mechanical Engineering	-	-	(Syllabus)