

MS Certificate Program in Integrated Computational Materials Engineering (ICME)

ICME MS Program

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Required Core	<u>MSc 401</u> Analytical & Statistical Thermodynamics <u>PSED 510-1</u> (0.5) ICME Seminar	<u>MSc 408</u> Phase Transformations in Materials <u>MSc 458</u> Computational Materials	<u>MSc 390</u> Materials Design <u>PSED 510-2</u> (0.5) ICME Seminar
Recommended Electives	<u>MSc 391</u> Process Design <u>MSc/ESAM 495</u> Modeling of Soft Materials <u>CEE327/ME 365</u> Introduction to FEM <u>ME 341</u> Computational Methods for Engineering Design (or <u>ME 441</u> Engineering Optimization for Product Design & Manufacturing)	<u>MSc/ESAM 495</u> Introduction to Statistical Mechanics <u>ME/CEE 426-1</u> Computational Mechanics I <u>ME 366</u> Finite Elements for Design & Optimization	<u>MSc 406</u> Mechanical Properties of Materials <u>ME/CEE 426-2</u> Computational Mechanics II <u>Phys 450</u> Advanced Computational Condensed Matter Physics