SCIENCE

AMD/ESC 545: Scientific and engineering principles of additive manufacturing (AM), including modeling and simulation, process monitoring, and sensing technologies.

LAB EXPERIENCE

ME 566: Laboratory experience in metal-based AM with unique option to visit campus for immersive demonstrations and hands-on activities.

PROCESS

AMD/IE 527: Characterization of all 7 AM processes, AM economics, design workflow, and reverse engineering.

DESIGN

AMD/EDSGN 562: Design for AM, part consolidation, customization, topology optimization, and lattice structures.

MATERIALS

AMD/MATSE 567: Processing, structure, and property relationships in materials fabricated using additive AM, including characterization methods.

Additive Manufacturing and Design (AMD) Graduate Degrees

Resident and Online
MS | MENG
Graduate Certificate

PAPER OR THESIS

RESEARCH SEMINAR

ELECTIVE

ELECTIVE

ELECTIVE

Graduate Certificate is earned by completing 3 of the following courses: AMD/ESC 545, AMD/EDSGN 562, AMD/MATSE 567, or AMD/IE 527