

ADDITIVE MANUFACTURING AND DESIGN

Learning Outcomes

Master of Engineering (M.Eng.)

1. **APPLY/CREATE** - Identify, formulate, and solve a relevant or practical problem of importance that additive manufacturing and design methods can address.
2. **COMMUNICATE** - Demonstrate proficiency in oral and written communication while addressing additive manufacturing and design ideas.
3. **THINK** - Critically analyze primary scientific literature to make sound engineering decisions.
4. **PROFESSIONAL PRACTICE** - Grow as leaders in manufacturing while maintaining the highest ethical standards in applying additive manufacturing to industry-relevant problems.
5. **KNOW** - Demonstrate an understanding of advanced core additive manufacturing principles.

Master of Science (M.S.)

1. **APPLY/CREATE** - Apply additive manufacturing approaches and frameworks to address relevant engineering challenges.
2. **PROFESSIONAL PRACTICE** - Effectively function in a multidisciplinary team-based environment.
3. **THINK** - Identify, analyze, and synthesize scholarly literature relating to the field of additive manufacturing.
4. **COMMUNICATE** - Articulate the value proposition for additive manufacturing in a given industry.
5. **KNOW** - Demonstrate foundational knowledge, critical thinking, and creativity in the uses of additive manufacturing and associated design methods.