

**REQUIREMENTS FOR THE GRADUATE CERTIFICATE**  
**GALLOGLY COLLEGE OF ENGINEERING**  
**THE UNIVERSITY OF OKLAHOMA**

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2025 through Spring 2026

General Requirements
Minimum Total Hours ..... 12

Program
Advanced Metal Additive Manufacturing  G605, G606-OL  Graduate Certificate

**CERTIFICATE REQUIREMENTS**

Manufacturing is transitioning into the "Fourth Revolution," which seeks to combine the burgeoning process of 3D printing of parts and components with a more interconnected and integrated approach to previously siloed digital data streams. This program will help engineers develop the necessary skills and knowledge to operate, oversee, and manage cutting-edge advanced manufacturing technologies that are increasingly vital in today's industries.

Code	Title	Credit Hours
<b>Core Courses</b>		
ENGR 5312	Introduction to Advanced Manufacturing for Metals	2
ENGR 5322	Digital Thread Concept	2
ENGR 5332	Digital Thread Implementation	2
ENGR 5342	Thermal Effects in Metal Additive Manufacturing	2
ENGR 5352	Post-Processing in Metal Additive Manufacturing	2
ENGR 5362	Metal Additive Manufacturing Lab	2
<b>Total Credit Hours</b>		<b>12</b>

A graduate *certificate* is not a graduate *degree*. A graduate degree represents a program of independent inquiry beyond the depth of coursework alone, while a graduate certificate represents a set of courses only.

- All courses must be taken at OU. No transfer credit will apply.
- No course substitutions are permitted for graduate certificates.
- Coursework applied to a graduate certificate cannot be more than five years old as of the semester the graduate certificate is awarded.
- Students must earn a grade point average of 3.00 or higher on all coursework applied to the graduate certificate.

More information in the catalog: (<http://ou-public.courseleaf.com/gallogly-engineering/college-engineering-administrated-programs/advanced-metal-additive-manufacturing-grad-cert/>).