REQUIREMENTS FOR THE MASTER OF SCIENCE GALLOGLY COLLEGE OF ENGINEERING THE UNIVERSITY OF OKLAHOMA

General Requirements

Academic Year For Students Entering the Oklahoma

State System for Higher Education

Summer 2024 through Spring 2025

Minimum Total Hours (Thesis) ... Minimum Total Hours (Non-Thesis)

Minimum Total Hours (Thesis): 30 Minimum Total Hours (Non-Thesis): 30

Program Code: M524 (Online M527)

Thesis Option

Code	Title	Credit	
Baguinad Courses		Hours	
Required Courses			
Statistics: Choose one of the following			
ISE 5013	Fundamentals of Engineering Statistical Analysis 1		
ISE 5553	Data-Driven Decision Making I		
ISE 5853	Data-Driven Decision Making II		
ISE 5103	Intelligent Data Analytics		
Modeling: Choose one of the following			
ISE 5023	Systems Optimization ²		
ISE 5663	Systems Analysis Using Simulation		
ISE 5113	Advanced Analytics and Metaheuristics		
Systems Engineering: Choose one of the following 3			
ISE 5033	Systems Engineering ³		
ISE 5813	Advanced Human Factors and Ergonomics		
ISE 5543	Decision Analysis		
Electives			
Choose 15 hours from a list maintained by the academic unit and			
approved by the Graduate College ⁴			
Thesis			
ISE 5980	Research for Master's Thesis	6	
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Total Credit Hours

- ¹ Students with an equivalent undergraduate statistics course: ISE 5103, ISE 5553 or ISE 5853 or alternative advanced statistics course approved by the Industrial and Systems Engineering Graduate Committee.
- ² Students with an equivalent undergraduate course in optimization: ISE 5663 or alternative advanced operations course approved by the Industrial and Systems Engineering Graduate Committee.
- 3 Students with an equivalent undergraduate course in systems engineering: ISE 5813 or another advanced course approved by the Industrial and Systems Engineering Graduate Committee.
- ⁴ The thesis option requires 15 hours of electives, from a list maintained by the department and approved by the Graduate College. At least 6 hours must be in Industrial and Systems Engineering. Up to 9 hours may be non-ISE courses.
- NOTE: No more than 6 credit hours of 4000-level graduate courses may be applied to the degree. These courses must be outside ISE and approved for graduate credit. No 3000-level or lower courses may be applied to the degree.

Non-Thesis Option	
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Code	Title	Credit Hours		
Required Courses				
Statistics: Choose one of the following				
ISE 5013	Fundamentals of Engineering Statistical Analysis 1			
ISE 5553	Data-Driven Decision Making I			
ISE 5853	Data-Driven Decision Making II			
ISE 5103	Intelligent Data Analytics			
Modeling: Choose one of the following				
ISE 5023	Systems Optimization ²			
ISE 5663	Systems Analysis Using Simulation			
ISE 5113	Advanced Analytics and Metaheuristics			
Systems Engineering: Choose one of the following				
ISE 5033	Systems Engineering ³			
ISE 5813	Advanced Human Factors and Ergonomics			
ISE 5543	Decision Analysis			
Electives				
Choose 21 hours from a list maintained by the academic unit and		21		
approved by the Graduate College ⁴				
Total Credit Hours				

30

30

- ¹ Students with an equivalent undergraduate statistics course: ISE 5103, ISE 5553 or ISE 5853 or alternative advanced statistics course approved by the Industrial and Systems Engineering Graduate Committee.
- ² Students with an equivalent undergraduate course in optimization: ISE 5663 or alternative advanced operations course approved by the Industrial and Systems Engineering Graduate Committee.
- ³ Students with an equivalent undergraduate course in systems engineering: ISE 5813 or another advanced course approved by the Industrial and Systems Engineering Graduate Committee.
- ⁴ The non-thesis option requires 21 hours of electives from a list maintained by the department and approved by the Graduate College. At least 12 hours must be in Industrial and Systems Engineering. Up to 9 hours may be non-ISE courses.
 - NOTE: No more than 6 credit hours of 4000-level graduate courses may be applied to the degree. These courses must be outside ISE and approved for graduate credit. No 3000-level or lower courses may be applied to the degree.

General Requirements for all Master's Degrees

The master's degree requires the equivalent of at least two semesters of satisfactory graduate work and additional work as may be prescribed for the degree.

All coursework applied to the master's degree must carry graduate credit.

Program Industrial and Systems Engineering M524 (Online M527)

Master of Science

Master's degree programs which require a thesis consist of *at least* 30 credit hours. All non-thesis master's degree programs require *at least* 30 credit hours.

Credit transferred from other institutions must meet specific criteria and is subject to certain limitations.

Courses completed through correspondence study may *not* be applied to the master's degree.

To qualify for a graduate degree, students must achieve an overall grade point average of 3.0 or higher in the degree program coursework and in all resident graduate coursework attempted. A student must also have at least a 3.0 in all coursework (including undergraduate coursework if any).

Additional information for master's degree students may be found in the Graduate College Bulletin.

More information in the catalog: (http://ou-public.courseleaf.com/gallogly-engineering/ industrial-systems-engineering/industrial-systems-engineering-master-science/).