



***Masters of Science in Engineering***  
*The University of Alabama in Huntsville*  
*Department of Industrial & Systems Engineering*  
*and Engineering Management*  
Technology Hall, Room N138, Huntsville, AL 35899  
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**Engineering Management Option**

The Engineering Management Option has been developed to meet the needs of practicing engineers who find themselves performing engineering management functions without the benefit of a formal education in these areas:

**Required Core Courses:** EM 660 Engineering Management Theory  
EM 666 Engineering Project Management  
EM 760 Organization Structure for the  
Technical Enterprise

**Select one of the following:** EM 662 Foundations of Quality Systems Management  
EM 762 Productivity and Quality Engineering  
EM 766 Implementation of Technology

**1<sup>st</sup> Minor:** Select from the following areas:  
Manufacturing Systems      Operations Research  
Quality Engineering      Reliability Engineering  
Systems Engineering      Systems Simulation  
(Others on approval of committee)

**2<sup>nd</sup> Minor:** ISE 690 Statistical Methods for Engineers  
ISE 526 Design & Analysis of Experiments  
These classes fulfill the math/stat 2<sup>nd</sup> minor requirements

**Electives:** Approval of Committee – 9 hours

**Final Project:** EM 697 Engineering Management Project I

**Distance Learning:**

The Engineering Management Option is supported by the Distance Learning (DL) Program at The University of Alabama in Huntsville. For more information, please contact the DL Office at 256-824-6976.

**Further Information:**

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## **PROGRAM OF STUDY**

### Plan I-Thesis Option (generally only for ISE MSE majors)

A minimum of 24 semester hours of coursework and a thesis (6 to 9 hours) must be completed.

### Plan II-Non-Thesis (Capstone) Option

A minimum of 33 hours of coursework and a final project paper (3 to 6 hours) must be completed. Exit Exam is over the Capstone paper.

### Plan II-Non-Thesis (Coursework) Option

A minimum of 36 hours of coursework must be completed. Exit Exam is over coursework.

## **DEGREE REQUIREMENTS**

1. Average grade on courses numbered 600 or above cannot be less than “B”.
2. Courses numbered between 500 and 599 may be taken for graduate credit; however, a minimum grade of “B” must be attained in each course. All courses on the Program of Study are selected by the student with the counsel of an advisor and are subject to the usual approvals at the Department, College and Graduate School levels. Additional coursework may be required to correct any deficiencies in undergraduate studies. Refer to the UAH catalog for details.

## **ADMISSION REQUIREMENTS**

### Unconditional Admission

1) ABET-accredited B.S. degree in engineering; 2) GPA of 3.0 or better\*; 3) GRE score of 400 or better on the Verbal, 500 or better on the Quantitative, and a combined score of 1000 or better; 4) GRE Analytical Writing score of 4.0 or better; 5) an undergraduate probability and statistics course or equivalent; and 6) an undergraduate engineering economy course or equivalent.

The GRE can be waived for students who have practiced engineering for five years past the BS degree, whose resume shows significant career progression, and who meet the first two requirements stated above.

Additional requirements for students seeking the Engineering Management or Systems Engineering options include two years of work experience in an engineering position past the BS degree or current full-time employment as an engineer in a U.S.-based organization.

### Conditional Admission

Conditional admission may be granted to students meeting all requirements above except 5) and 6). However, students must successfully complete the undergraduate equivalent of these courses within the first year of admission.

\* MSE-seeking students who do not meet the GPA requirement stated above have an opportunity to begin graduate coursework as a Non-Degreed student in order to establish a record of successful performance in graduate coursework in the first 12 hours. Only 12 hours of coursework taken as a Non-Degreed student can be applied to a degree program. See the Graduate Catalog for more information.