

Date Submitted: 01/25/24 11:28 am

# Viewing: **INEGMS : Industrial Engineering, Master of Science in Industrial Engineering**

Last approved: 01/16/24 8:02 am

Last edit: 01/31/24 8:37 am

Changes proposed by: ashlea

Catalog Pages Using this Program

[Industrial Engineering.\(INEG\)](#)

Submitter: User ID: [ashlea yongko](#) Phone: [575-3702 575-5252](#)

Program Status: Active  
 Academic Level: Graduate  
 Type of proposal: Major/Field of Study

Select a reason for this modification  
 Making Changes that Qualify for a Shortened Approval Process (including 15 or fewer hours within the college, total hours and admission/graduation requirements remain the same)

Are you adding a concentration?  
 No

Are you adding or modifying a track?  
 No

Are you adding or modifying a focused study?  
 No

Effective Catalog Year: Fall 2024

College/School Code: College of Engineering (ENGR)

Department Code

## In Workflow

1. ENGR Dean Initial
2. GRAD Dean Initial
3. Director of Curriculum Review and Program Assessment
4. Registrar Initial
5. Institutional Research
6. INEG Chair
7. ENGR Curriculum Committee
8. ENGR Faculty
9. ENGR Dean
10. Global Campus
11. Provost Review
12. Graduate Council
13. Faculty Senate
14. Provost Final
15. Registrar Final
16. Catalog Editor Final

## Approval Path

1. 01/26/24 10:31 am  
Kevin Hall (kdhall): Approved for ENGR Dean Initial
2. 01/26/24 1:26 pm  
Ed Bengtson (egbengts): Approved for GRAD Dean Initial
3. 01/30/24 4:08 pm  
Lisa Kulczak (lkulcza): Approved for Director of Curriculum Review

## Department of Industrial Engineering (INEG)

Program Code            INEGMS  
 Degree                    Master of Science in Industrial Engineering  
 CIP Code

- and Program  
 Assessment
4. 01/31/24 8:37 am  
 Gina Daugherty  
 (gdaugher):  
 Approved for  
 Registrar Initial
  5. 01/31/24 10:56 am  
 Doug Miles  
 (dmiles): Approved  
 for Institutional  
 Research
  6. 01/31/24 12:26 pm  
 Chase Rainwater  
 (cer): Approved for  
 INEG Chair
  7. 02/08/24 8:01 am  
 Manuel Rossetti  
 (rossetti): Approved  
 for ENGR  
 Curriculum  
 Committee
  8. 02/16/24 8:47 am  
 Kevin Hall (kdhall):  
 Approved for ENGR  
 Faculty
  9. 02/16/24 8:49 am  
 Kevin Hall (kdhall):  
 Approved for ENGR  
 Dean
  10. 02/16/24 9:26 am  
 Suzanne Kenner  
 (skenner): Approved  
 for Global Campus
  11. 02/16/24 6:02 pm  
 Matthew Ganio  
 (msganio):  
 Approved for  
 Provost Review
  12. 03/28/24 7:09 pm  
 Ed Bengtson

(egbengts):  
Approved for  
Graduate Council

### History

- 1. Feb 2, 2016 by Charlie Alison (calison)
- 2. May 18, 2020 by Manuel Rossetti (rossetti)
- 3. Jan 16, 2024 by Gina Daugherty (gdaugher)

14.3501 - Industrial Engineering.

Program Title

Industrial Engineering, Master of Science in Industrial Engineering

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program? 30

## Program Requirements and Description

### Requirements

#### Prerequisites to the M.S.I.E. Degree Program:

There are no prerequisites for students with an undergraduate degree from an ABET-accredited industrial engineering program.

For students with a degree other than an ABET-accredited industrial engineering degree, prerequisite courses may be required.

**Requirements for the Master of Science in Industrial Engineering Degree:** In addition to the requirements of the Graduate School, the following departmental requirements must be satisfied by candidates for the M.S.I.E. degree: Candidates who present a thesis are required to complete a minimum of 24 graduate credit hours plus six hours of [INEG 6000V](#) Master's Thesis.

Candidates who present a project are required to complete a minimum of 27 graduate credit hours plus three hours of [INEG 5130V](#) Master's Research Project and Report.

Candidates who do not present either a thesis or project are required to complete 30 semester hours of course work.

Candidates must successfully complete a master's oral examination that is conducted by the candidate's committee.

Courses Taken for Graduate Credit: A limited number of 4000-level courses may be taken for graduate credit.

Attendance at INEG graduate seminar is required of all graduate students in Industrial Engineering.

### Accelerated M.S.I.E. Degree

High-achieving current undergraduate students seeking a B.S.I.E. degree at the University of Arkansas who choose to pursue graduate studies in INEG may participate in the accelerated M.S.I.E. program. Eligible students may take up to 6 credit hours of 5000 INEG courses applied towards their ~~as technical electives for their~~ bachelor's degree and those hours will also count towards their ~~towards their~~ M.S.I.E. degree. In addition, students may take another 6 credit hours of graduate degree credit as undergraduate students in order to apply them to their M.S.I.E. degree. These additional 6 hours of courses may not have been used towards the undergraduate degree and must meet the M.S.I.E. degree requirements. The total of 12 credit hours of graduate courses taken as an undergraduate student must be taken during the final 12 month period of their undergraduate degree.

Once fully admitted to the M.S.I.E. program, students request that up to 12 hours of 5000-level or above courses taken in the final 12-month period of their undergraduate degree count toward their graduate degree, if these courses were taken on the Fayetteville campus of the University of Arkansas. Students then take an additional 18 credit hours of approved INEG graduate-level courses (including [INEG 6000V](#) or [INEG 5130V](#)) in order to complete their M.S.I.E. degree.

Industrial engineering undergraduate students interested in the accelerated M.S.I.E. degree should apply to the program prior to starting the second-to-last semester of their undergraduate program. To be eligible, students must have a 3.5 cumulative GPA or higher and submit the normal application materials required by the graduate school for the M.S.I.E. degree program.

~~degree program. For students that have a cumulative GPA of 3.5 or higher, the submission of GRE scores is waived.~~ Students should also be aware of Graduate School requirements with regard to master's degrees.

#### Are Similar Programs available in the area?

No

Estimated Student Demand for Program	NA
Scheduled Program	<u>2028-2029</u> <del>2021-</del>
Review Date	<del>2022</del>

Program Goals and Objectives

**Program Goals and Objectives**

- 1.Prepare students for significant applications of and contributions to Industrial Engineering beyond graduation.
- 2.Produce projects and theses which meet high academic standards and constitute significant applications of and contributions to Industrial Engineering.

Learning Outcomes

**Learning Outcomes**

- 1.Students will make satisfactory progress toward the degree, preparing to write a thesis which meets high academic standards and constitutes a significant contribution to Industrial Engineering.
- 2.Thesis students will be prepared to write a thesis which meets high academic standards and constitutes a significant contribution to Industrial Engineering.
- 3.Thesis students will write a thesis which meets high academic standards and constitutes a significant contribution to Industrial Engineering.
- 4.Project students will present a project which meets high academic standards and constitutes a significant application of Industrial Engineering.
- 5.Coursework students will demonstrate achievement of select course outcomes.6.Students will be able to communicate effectively.

Description and justification of the request

<b>Description of specific change</b>	<b>Justification for this change</b>
<p>There are two changes.</p> <p>(1) In the first paragraph under the header Accelerated M.S.I.E. degree, the language "as technical electives for" is changed to "applied towards"</p> <p>(2) Deletion of the sentence noting that submission of a GRE score is waived for students with a CGPA of 3.5 or higher</p>	<p>Justification for the two changes:</p> <p>(1) Some of the courses that were technical electives when this language was first written are required courses in the INEGBS curriculum now</p> <p>(2) GRE scores are no longer required for any MSIE applicant, regardless of their CGPA</p>

Upload attachments

Reviewer Comments

- Lisa Kulczak (lkulcza) (01/30/24 4:08 pm):** Adjusted type of proposal to reflect Major/Field of Study, rather than Minor. Updated submitter information and next scheduled program review dates. ATTENTION REGISTRAR: Please remove Undergraduate Council from the workflow.
- Gina Daugherty (gdaugher) (01/31/24 8:37 am):** Removed Undergraduate Council from workflow.