In Workflow

Review

INEG Chair
ENGR Curriculum

~

3. Registrar Initial

Committee

6. ENGR Faculty

8. Global Campus
9. Provost Review
10. University Course

7. ENGR Dean

1. ENGR Dean Initial

2. Director of Program Assessment and

### **Program Change Request**

Date Submitted: 11/02/17 6:19 pm

# Viewing: INEGBS : Industrial Engineering, Bachelor of Science in

## Industrial Engineering

Last approved: 05/30/17 4:26 pm

#### Last edit: 11/03/17 5:40 pm

Changes proposed by: cassady

Catalog Pages Using this Program <u>Industrial Engineering B.S.I.E.</u> <u>Industrial Engineering (INEG)</u>

		· · · ·
		and Program
Submitter:	User ID: crsleaf1 Phone: 575-3157	Committee
Program Status	Active	11. Faculty Senate
0		12. Provost Final
Academic Level	Undergraduate	13. Provost's Office
Type of proposal	Major/Field of Study	Notification of
Select a reason for th	Approval	
Making Minor Chang	14. Registrar Final	
requirements, adding		15. Catalog Editor Final
Are you adding a con	icentration? No	
		Approval Path
Are you adding a trac	ck? No	1. 11/01/17 3:14 pm
Are you adding a foc	used study? No	Norman Dennis
Effective Catalog	Fall 2018	(ndennis): Approved
Year		for ENGR Dean
		Initial
College/School Code	College of Engineering(ENGR)	2. 11/02/17 8:41 am
Department Code	Department of Industrial Engineering(INEG)	Alice Griffin (agriffin): Rollback
Program Code	INEGBS	to Initiator
Degree	Bachelor of Science in Industrial Engineering	3. 11/03/17 8:24 am
-		Norman Dennis
CIP Code		(ndennis): Approved
14.3501 - Industri	al Engineering.	for ENGR Dean
Program Title		Initial
Industrial Engineering, Bachelor of Science in Industrial Engineering		4. 11/03/17 2:55 pm
Program Delivery		Alice Griffin
Method		(agriffin): Approved
On Campus		for Director of
	Is this program interdisciplinary?	Program
No	is this program interdisciplinary:	Assessment and
110		Review 5. 11/03/17 5:40 pm
	Does this proposal impact any courses from another College/School?	Lisa Kulczak
No		

What are the total hours needed to complete the program?

#### **Program Requirements and Description**

126

Requirements

The total graduation requirement in industrial engineering is **126** <del>128</del> hours. For further information please visit the <u>departmental website</u>.

### **Technical Electives**

The purpose of technical electives is to provide students with the opportunity to expand their education within a particular area of interest. The approved list of technical electives is available in the industrial engineering department. At least 12 hours must be selected from INEG courses.

### **Humanities/Social Science Electives**

Although any elective included on the approved University Core humanities/social science list may be selected, <u>PSYC 2003</u> General Psychology (ACTS Equivalency = PSYC 1103) (Sp, Su, Fa) <u>PSYC 2003 General Psychology (ACTS</u> <u>Equivalency = PSYC 1103) (Sp, Su, Fa)</u> is recommended for industrial engineers.

#### **Science Electives**

The approved list of science electives is available in the industrial engineering departmental office.

		ion Registrar mitiar
	6.	11/06/17 11:26 am
		Ed Pohl (epohl):
		Approved for INEG
		Chair
	7.	11/07/17 2:07 pm
		Manuel Rossetti
		(rossetti): Approved
2		for ENGR
		Curriculum
-		Committee
	8.	11/08/17 9:02 am
		Norman Dennis
		(ndennis): Approved
		for ENGR Faculty
	9.	11/08/17 9:11 am
		Norman Dennis
		(ndennis): Approved
		for ENGR Dean
	10.	11/08/17 1:13 pm
		Kiersten Bible
		(kbible): Approved
		for Global Campus
	11.	11/10/17 10:41 am

Terry Martin (tmartin): Approved for Provost Review

#### History

- Aug 15, 2014 by Leepfrog Administrator (clhelp)
- 2. Mar 13, 2015 by tellenbe
- 3. Apr 3, 2015 by tellenbe
- 4. May 16, 2016 by tellenbe
- Mar 1, 2017 by Manuel Rossetti (rossetti)
- May 30, 2017 by Charlie Alison (calison)

8-Semester Plan

Industrial Engineering B.S.I.E.

#### Eight-Semester Degree Program

https://nextcatalog.uark.edu/courseleaf/courseleaf.cgi?page=/programadmin/493/index.ht... 11/10/2017

(Ikulcza): Approved

for Pogistrar Initial

sequence. Not all courses are offered every semester, so students who deviate from the sugge course scheduling and course prerequisites. Students wishing to follow the eight-semester de	
Policy in the Academic Regulations chapter for university requirements of the program.	D
At least 12 hours of technical electives must be selected from INEG courses.	
First Year	Units
	FallSpring
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)	4
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) (Su, Fa)	3
PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034) (Sp, Su, Fa)	4
GNEG 1111 Introduction to Engineering I (Sp, Fa)	1
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa)	3
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) (Sp, Su, Fa)	4
Freshman Science Elective1,5	4
Select one of the following:	3
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su,	Fa)
HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)	•
PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003) (Sp, Su, Fa)	
<u>GNEG 1121</u> Introduction to Engineering II (Sp, Fa)	1
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa)	3
Year Total:	15 15
Second Year	Units
	FallSpring
I <u>NEG 2001</u> Industrial Engineering Seminar (Fa)	1
INEG 2103 Introduction to Industrial Engineering (Fa)	3
NEG 2313 Applied Probability and Statistics for Engineers I (Sp, Fa)	3
INEG 2413 Engineering Economic Analysis (Sp, Fa)	3
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603) (Sp, Su, Fa)	4
Science Requirement1,2	3
NEG 2403 Industrial Cost Analysis (Sp)	3
NEG 2333 Applied Probability and Statistics for Engineers II (Sp, Fa)	3
MATH 2584 Elementary Differential Equations (Sp, Su, Fa)	4
MEEG 2303 Introduction to Materials (Sp, Fa)	3
CSCE 2004 Programming Foundations I (Sp, Fa)	4
Year Total:	17 17
Third Year	Units
	FallSpring
NEG 3623 Simulation (Fa)	3
NEG 3713 Methods and Standards (Sp, Fa)	3 -
MEEG 2003 Statics (Sp, Su, Fa)	3 -
ELEG 3903 Electric Circuits and Machines (Sp, Fa)	3
Fine Arts (from University/State Core List)	3
Technical Elective3	3
INEG 3714 Work Methods and Ergonomics Course INEG 3714 Work Methods and Ergonomi	cs Not Found <mark>4</mark>
NEG 3613 Introduction to Operations Research (Sp)	3
NEG 3723 Ergonomics (Sp, Fa)	
NEG 3513 Manufacturing Processes (Sp)	3
Selection one option from the following:	3

ECON 2013 Principles of Macroeconomics (ACTS Equivalency = ECON 2103) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023 Principles of Microeconomics (ACTS Equivalency = ECON 2203) (Sp, Su & ECON 2023) (Sp, Su & ECO		
Technical Elective	3	
MEEG 2003 Statics (Sp, Su, Fa)	3	
Year Total:	16 15	
Fourth Year	Units	
	FallSpring	
INEG 4433 Systems Engineering and Management (Fa)	3	
INEG 4553 Production Planning and Control (Fa)	3	
Two Technical Elective3	6	
Social Science (from University/State Core List)4	3	
INEG 4911 Industrial Engineering Capstone Experience I (Fa)	1	
INEG 4923 Industrial Engineering Capstone Experience II (Sp)	3	
Two Technical Electives3	6	
Humanities (from University/State Core List)4	3	
Social Science (from University/State Core List)4	3	
Year Total:	16 15	
Total Units in Sequence:	126	
1 <u>CHEM 1123/CHEM 1121L</u> University Chemistry II or <u>PHYS 2074</u> University Physics II		
2If the student selected CHEM 1123/CHEM 1121L as their freshman science elective then this course must be PHYS 2074 University Physics II;		

otherwise see the approved list of IE science electives.

<sup>3</sup>The purpose of technical electives is to provide students with the opportunity to expand their education along lines of particular interest to them. The approved list of technical electives is available in the industrial engineering department. At least 12 hours must be selected from INEG courses.

4Although any elective included on the humanities/social science list may be selected, <u>PSYC 2003</u> General Psychology is recommended for industrial engineers.

5The approved list of science electives is available in the industrial engineering departmental office.

Are Similar Programs available in the area?		
No		
Estimated Student Demand for Program	250	
Scheduled Program Review Date	2020-2021	
Program Goals and		
Objectives		
Program Goals and Objectives		
NA		
Learning Outcomes		
Learning Outcomes		
NA		

#### Description and justification of the request

Description of specific change	Justification for this change
Combined INEG 3713 and INEG 3723 into a new course,	The merger of the two courses reduced overlap in the curriculum, renders the
INEG 3714. We moved MEEG 2003 to the sixth-semester to	curriculum more closely aligned with faculty expertise, and shortens a long
balance hours.	pre-requisite chain.

Upload attachments

**Reviewer Comments** 

Alice Griffin (agriffin) (11/02/17 8:41 am): Rollback: Please review course change for INEG 3713. The course number was not changed to 3714. Thus, the total hours are not reflecting correctly in the program change. Please make the course change, insert the hours into the course in the eight semester plan and resubmit program change.

**Norman Dennis (ndennis) (11/03/17 8:24 am):** Removed second occurrence of INEG 3714 from third year. new course INEG 3714 is in workflow.

Alice Griffin (agriffin) (11/03/17 2:53 pm): Changed language in the program requirements from 128 to 126 hours with permission from college.

Alice Griffin (agriffin) (11/03/17 2:54 pm): Inserted four hours into the eight semester plan for INEG 3714 so that hours would total 126.

Lisa Kulczak (lkulcza) (11/03/17 5:40 pm): Course "not found" currently in approval process for fall 2018.

Key: 493