10KS0127PHD: INDUSTRIAL ENGINEERING, PHD

In Workflow

- 1. U Program Review (dforgacs@illinois.edu; eastuby@illinois.edu; aledward@illinois.edu)
- 2. 1422 Head (thurston@illinois.edu; hcraddoc@illinois.edu; lredman@illinois.edu)
- 3. KP Committee Chair (mch@illinois.edu; bsnewell@illinois.edu; danko@illinois.edu; kcp@illinois.edu)
- 4. KP Dean (candyd@illinois.edu)
- 5. University Librarian (jpwilkin@illinois.edu)
- 6. Grad_College (agrindly@illinois.edu; jch@illinois.edu; lowry@illinois.edu)
- 7. Provost (kmartens@illinois.edu)
- 8. Senate EPC (bjlehman@illinois.edu; moorhouz@illinois.edu; kmartens@illinois.edu)
- 9. Senate (jtempel@illinois.edu)
- 10. U Senate Conf (none)
- 11. Board of Trustees (none)
- 12. IBHE (none)
- 13. DMI (eastuby@illinois.edu; aledward@illinois.edu; dforgacs@illinois.edu)

Approval Path

- 1. Mon, 12 Oct 2020 16:05:52 GMT
 Deb Forgacs (dforgacs): Approved for U Program Review
- 2. Thu, 15 Oct 2020 19:07:29 GMT Deborah Thurston (thurston): Approved for 1422 Head
- 3. Tue, 17 Nov 2020 19:28:55 GMT Keri Pipkins (kop): Approved for KP Committee Chair
- 4. Tue, 17 Nov 2020 20:59:25 GMT Candy Deaville (candyd): Approved for KP Dean
- 5. Tue, 17 Nov 2020 22:15:09 GMT John Wilkin (jpwilkin): Approved for University Librarian
- Thu, 10 Dec 2020 20:05:25 GMT
 Allison McKinney (agrindly): Approved for Grad_College
- 7. Thu, 10 Dec 2020 20:38:22 GMT Kathy Martensen (kmartens): Approved for Provost

History

- 1. May 8, 2019 by Deb Forgacs (dforgacs)
- 2. Jul 1, 2019 by Mary Lowry (lowry)
- 3. Jul 1, 2019 by Mary Lowry (lowry)

Date Submitted:Mon, 12 Oct 2020 16:04:20 GMT

Viewing:10KS0127PHD: Industrial Engineering, PhD

Changes proposed by: Lauren Redman

Proposal Type

Proposal Type:

Major (ex. Special Education)

This proposal is for a:

Revision

Proposal Title:
If this proposal is one piece of a multi-element change please include the other impacted programs here.example: A BS revision with multiple concentration revisions
PhD revision with multiple minor revisions
The other programs that are tied to this revision include: IE, MS key 337 SE, MS key 338 SE, PHD key 335
EP Control Number
EP.21.051
Official Program Name
Industrial Engineering, PhD
Effective Catalog Term
Fall 2021
Sponsor College
Grainger College of Engineering
Sponsor Department
Industrial and Enterprise Systems Engineering
Sponsor Name
Lauren Redman
Sponsor Email
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College Contact
Harry Dankowicz
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Program Description and Justification

Justification for proposal change:

The Department of Industrial and Enterprise Systems Engineering would like to align both the Industrial Engineering and Systems & Entrepreneurial ncial aspect and

Engineering curriculum requirements to create consistency among both programs. This has no implication for students from a financh should make the requirements much more clear to avoid confusion that we currently experience.
In particular, we are proposing the following: PhD With Approved Masters: *Structuring the electives – STEM courses and 400/500-level IE courses *Defining the STEM courses that will count toward the degree *Increase GPA requirement to 3.25 to match PhDSSE
PhD With Approved Bachelors: *Structuring the electives – STEM courses, 400/500-level IE courses, and open electives *Defining the STEM courses that will count toward the degree *Increasing number of 500-level courses to match PhDSEE *Increase GPA requirement to 3.25 to match PhDSEE
Corresponding Degree
PhD Doctor of Philosophy
Is this program interdisciplinary?
No
Academic Level
Graduate
Will you admit to the concentration directly?
No
Is a concentration required for graduation?
No
CIP Code
143501 - Industrial Engineering.
Is This a Teacher Certification Program?

Will specialized accreditation be sought for this program?

No

No

Admission Requirements

Is this revision a change to the admission status of the program?
No
Enrollment
Describe how this revision will impact enrollment and degrees awarded.
No impact in enrollment or degrees awarded is expected
Estimated Annual Number of Degrees Awarded
What is the matriculation term for this program?
Fall
What is the typical time to completion of this program?
5 years
What are the minimum Total Credit Hours required for this program?
Delivery Method
Is this program available on campus and online?
No
This program is available:
On Campus
Budget
Are there budgetary implications for this revision?
No
Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?

Resource Implications
Facilities
Will the program require new or additional facilities or significant improvements to already existing facilities? No
Technology
Will the program need additional technology beyond what is currently available for the unit?
Non-Technical Resources
Will the program require additional supplies, services or equipment (non-technical)? No
Resources
For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/acknowledgement from faculty, students, and/or other impacted units as appropriate.
Faculty Resources
Library Resources
Instructional Resources
Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?
No
Does the program include other courses/subjects impacted by the creation/revision of this program?
No

Financial Resources

How does the unit intend to financially support this proposal? No financial impact is expected
Will the unit need to seek campus or other external resources? No
Are you seeking a change in the tuition rate or differential for this program? Yes
Is this program requesting self-supporting status? No
Program Regulation and Assessment
Is the career/profession for graduates of this program regulated by the State of Illinois? No
Program of Study
"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.
All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.
Revised programs
PhDIE ProposedChanges 101220.pdf
Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.
Catalog Page Text
Statement for Programs of Study Catalog

Entering with approved M.S./M.A. degree

Code	Title	Hours			
IE 599 Thesis Research ^{A maximum} of 32 credit hours of IE 599 (or other approved thesis) may be counted toward the degree IE 590 Seminar (registration for 0 hours every term while in residence)		32			
IE 590	Seminar (registration for 0 hours every term while in residence)	0			
Elective courses – cl	hosen in consultation with advisor (subject to Other Requirements and Conditions below)	32			
400/500-level IE Cou	rses	20			
STEM courses from other approved departmen	STEM courses from outside of major STEM courses must be approved and be from a College of Engineering department, including ABE and CHBE (or other approved department). Excludes TEC and ENG courses.				
Total Hours		64			

Other Requirements and Conditions (may overlap)

Requirement	Description			
Other Requirements and Conditions may overlap				
Minimum 500-level Hours Required Overall:	16			
A maximum of 4 hours of E 597 (or other approved independent study) may be applied toward the elective course work requirement.				
4 hours of the elective courses must be from a College of Engineering				

department, including ABE and CHBE.

A maximum of 4 CR-graded credit hours in non-IE courses may be applied

toward the degree.

Minimum GPA: 3.25
Minimum 500-level credit hours applied toward the degree: 16

Independent study/project design courses do not count toward 500-level requirement.

A maximum of 8 hours of IE 597(or other approved independent study/project design) may be applied toward the elective course work requirement.

Ph.D. exam and dissertation requirements:

Qualifying exam: Qualifying examinations should be taken as early as possible

Qualifying exam

Preliminary exam

Final exam or dissertation defense

Dissertation deposit

Entering with approved B.S./B.A. degree

Code IE 599	Title Thesis Research ^A maximum of 40 credit hours of IE 599 (or other approved thesis) may be counted toward the degree	Hours 40		
IE 590	Seminar (registration for 0 hours every term while in residence)	0		
Elective courses – ch	nosen in consultation with advisor (subject to Other Requirements and Conditions below)	56		
400/500-level IE Courses				
STEM courses from other approved departmen	outside of major STEM courses must be approved and be from a College of Engineering department, including ABE and CHBE (or nt). Excludes TEC and ENG courses.	12		
Electives in consulta	tion with advisor	12		
Total Hours		96		

Other Requirements and Conditions (may overlap)

outer requirements and contained (may overlap)		
Requirement	Description	
Other Requirements and Conditions may overlap		
Minimum 500-level Hours Required Overall:	24	

For the thesis option, a maximum of 4 hours of IE 597 (or other approved independent study) may be applied toward the elective course work requirement.

4 hours of the elective courses must be from a College of Engineering department, including ABE and CHBE.

A maximum of 4 CR-graded credit hours in non-IE courses may be applied toward the degree.

Minimum GPA: 3.25
Minimum 500-level credit hours applied toward the degree: 28

Independent study/project design do not count toward 500-level requirement.

A maximum of 8 hours of IE 597(or other approved independent study/project design) may be applied toward the degree.

Ph.D. exam and dissertation requirements:

Qualifying exam: Qualifying examinations should be taken no later than the fifth semester for those entering with approved B.S. or B.A. degree.

Qualifying exam

Preliminary exam

Final exam or dissertation defense

Dissertation deposit

EP Documentation

DMI Documentation

Banner/Codebook Name

Doctor of Philosophy, PhD

Program Code:

10KS0127PHD

Degree Code

PHD

Major Code

0127

Program Reviewer Comments

Deb Forgacs (dforgacs) (Mon, 12 Oct 2020 15:36:20 GMT):Rollback: requested.

Key: 336

10KS0127PHD Program Code Effective Fall 2021

PhDIE Approved Masters Current Ph	hDIE Approved Masters Proposed
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Thesis credit (IE 599)	32	Thesis credit (IE 599)	32
Seminar registration each semester (IE 590)	0	Seminar registration each semester (IE 590)	0
Electives in consultation with advisor	32	400/500-level IE Courses	20
		STEM courses from outside of major	12
Total	64	Total	64
A minimum of 16 credit hours of 500-level		At least 10 hours of 500 lovel gradity must be applied to your	
		At least 16 hours of 500-level credit must be applied toward	
hours overall.		the degree. Independent study/project design courses do not	
		count toward 500-level requirement.	
4 hours of the elective courses must be from a		STEM courses must be approved and be from a College of	
College of Engineering department, including		Engineering department, including ABE and CHBE (or other	
ABE and CHBE.		approved department). Excludes TEC and ENG courses.	
A maximum of 4 hours of IE 597 (or other		A maximum of 8 credit hours of IE 597 (or other approved	
approved independent study) may be applied		independent study/project design) may be counted toward	
toward the elective course work requirement.		the degree.	
PhD exam and dissertation requirements:		PhD exam and dissertation requirements: qualifying exams,	
qualifying exams, preliminary exam, final exam		preliminary exam, final exam or dissertation defense,	
or dissertation defense, dissertation deposit.		dissertation deposit.	
Minimum GPA: 3.0		Minimum GPA: 3.25	

A maximum of 4 CR-graded credit hours in non-IE courses may be applied toward the degree.

PhDIE Approved Bachelors Current PhDIE Approved Bachelors Proposed

Thesis credit (IE 599)	40	Thesis credit (IE 599)	40
Seminar registration each semester (IE 590)	0	Seminar registration each semester (IE 590)	C
Electives in consultation with advisor	56	400/500-level IE Courses	32
		STEM courses from outside of major	12
		Electives in consultation with advisor	12
Total	96	Total	96
		At least 28 hours of 500-level credit must be applied toward	
A minimum of 24 credit hours of 500-level		the degree. Independent study/project design do not count	
hours overall.		toward 500-level requirement.	
4 hours of the elective courses must be from a		STEM courses must be approved and be from a College of	
College of Engineering department, including		Engineering department, including ABE and CHBE (or other	
ABE and CHBE.		approved department). Excludes TEC and ENG courses.	
A maximum of 4 hours of IE 597 (or other		A maximum of 8 credit hours of IE 597 (or other approved	
approved independent study) may be applied		independent study/project design) may be counted toward	
toward the elective course work requirement.		the degree.	
PhD exam and dissertation requirements:		PhD exam and dissertation requirements: qualifying exams,	
qualifying exams, preliminary exam, final exam		preliminary exam, final exam or dissertation defense,	
or dissertation defense, dissertation deposit.		dissertation deposit.	
Minimum GPA: 3.0		Minimum GPA: 3.25	

A maximum of 4 CR-graded credit hours in non-IE courses may be applied toward the degree.