Date Submitted: 12/23/21 6:06 pm

Viewing: **10KP0127BS : Industrial Engineering, BS**

Last approved: 10/08/21 12:49 pm

Last edit: 02/15/22 10:35 am

Changes proposed by: Heidi Craddock

Catalog Pages Using this Program	Industrial Engineering, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1422 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

Approval Path

1. 01/05/22 2:39 pm
   Deb Forgacs (dforgacs):
   Approved for U Program Review
2. 01/05/22 3:18 pm
   Jeff Shamma (jshamma):
   Approved for 1422 Head
3. 02/03/22 11:39 am
   Brooke Newell (bsnewell):
   Approved for KP Committee Chair
4. 02/03/22 11:47 am
   Candy Deaville (candyd):
   Approved for KP Dean
5. 02/03/22 11:55 am

John Wilkin (jpwilkin): Approved for University Librarian
6. 02/03/22 4:15 pm Kathy Martensen (kmartens): Approved for Provost

History

1. Dec 13, 2018 by Deb Forgacs (dforgacs)
2. Apr 23, 2019 by Deb Forgacs (dforgacs)
3. Aug 9, 2019 by Deb Forgacs (dforgacs)
4. Aug 12, 2019 by Deb Forgacs (dforgacs)
5. Apr 2, 2020 by Brooke Newell (bsnewell)
6. Apr 14, 2020 by Deb Forgacs (dforgacs)
7. Jan 8, 2021 by Deb Forgacs (dforgacs)
8. Oct 8, 2021 by Brooke Newell (bsnewell)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Industrial Engineering, BS

Sponsor College	Grainger College of Engineering
Sponsor Department	Industrial and Enterprise Systems Engineering
Sponsor Name	Carolyn Beck
Sponsor Email	beck3@illinois.edu
College Contact	Jonathan Makela ~~Brooke Newell~~
College Contact Email	jmakela@illinois.edu ~~bsnewell@illinois.edu~~
College Budget Officer	Tessa Hile
College Budget Officer Email	tmhile@illinois.edu

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. *Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.*

Brooke Newell, bsnewell@illinois.edu, GCOE; Heidi Craddock, hcraddoc@illinois.edu, ISE Department

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Fall 2022

Provide a brief, concise description (not justification) of your proposal.

Removed Liberal Education Electives, updated number of free elective hours, and moved footnotes (when possible) into the Program of Study Table (to improve accessibility).

MATH 415 was replaced with MATH 257.

Allowed for students to take CS 124 in place of CS 101 for students that will be pursuing the CS Minor.

IE 413 was replaced with IE 371.

Revised the Track Option (TO) Listings:
a. Added clarifying text to be consistent throughout all tracks.
b. Added a Computational Methods in IE track which includes a number of CS courses.
c. Revised the TO hours to reflect only undergraduate hours.
d. Added clarifying text to the Economics and Finance TO.
e. Revised the Human Factors TO to reflect the rubric change from TSM to ETMA.
f. Revised the Supply Chain, Manufacturing, and Logistics TO to include ME 270.

Added clarifying text for Technical Electives and in the Track Options.

List here any related proposals/revisions and their keys. *Example: This BS proposal (key 567) is related to the Concentration A proposal (key 145) and the Concentration B proposal (key 203).*

Program Justification

Why are these changes necessary?

After careful analysis of programs of studies, various requirements, and course selection for students in The Grainger College of Engineering, we have decided to provide additional flexibility to all engineering undergraduate students by increasing the number of free elective hours in all engineering programs. While the actual number of credit hours for free electives varies by program, within the college - 8 programs currently provide only 6 credit hours for free electives while an additional 2 have less than 10 - only 4 programs have more than 10 free elective credits. This lack of free elective credit hours limits students' abilities to efficiently pursue minors, certificates, and other educational opportunities and potentially limits those opportunities only to students coming in with significant AP credit or similar.

The additional free elective credit hours added to the program of study are obtained through the removal of The Grainger College of Engineering's Liberal Education requirement, which required engineering students to take an additional 6 credit hours above-and-beyond the campus' General Education requirement from the Humanities & the Arts, Social & Behavioral Sciences, or a college-curated list of courses. Over time, the Liberal Education requirement has been revised within the college, successively relaxing restrictions and providing additional choice to students (i.e., removal of a sequencing requirement in 1999; addition of the college-curated course list in 2010). Simultaneously, the college-curated list of courses continued to expand to include courses from approximately 120 rubrics across campus (including within The Grainger College of Engineering), gradually removing constraints to allow greater flexibility of choice for students to take advantage of the many opportunities the campus has to offer. Still, in its current form, this additional college-level requirement constrains student choice and interferes with their ability to efficiently pursue minors, certificates, and other educational opportunities across campus unless those opportunities intersect with coursework in the Liberal Education requirement.

Simultaneously, the required engineering orientation course, ENG 100, will be granted 1-credit hour. Previously, this course was a 0-credit course. The allocation of 1-credit appropriately recognizes the time and commitment expected of all students who take this course. In the 1-credit version of ENG 100, content will be added to improve teamwork and interpersonal skills, including topics related to diversity, equity, and inclusion (DEI). The engineering accrediting agency, ABET, will soon be adding DEI requirements for accredited programs. This component of ENG 100 is therefore beneficial to all Grainger Engineering programs and students by providing a common framework on which additional DEI topics can build throughout a student's program of study.

MATH 415 was replaced with MATH 257 due to the Math Department no longer offering MATH 415 as of Fall 2022.

Allowed for students to take CS 124 in place of CS 101 for students that will be pursuing the CS Minor. As the CS Department changed their curricular requirements and prerequisites, it was necessary for ISE to reflect those changes in our own curriculum to allow for students that wish to pursue CS minors.

IE 413 was replaced with IE 371 which teaches simulation at a level which is more

appropriate for undergraduate students.

Revised the Track Option (TO) Listings:
a. Added clarifying text to be consistent throughout all tracks.
b. Added the Computational Methods in IE track which includes a number of CS courses. This will provide an opportunity for student interested in a deeper understanding of computational methods and computer science.
c. Revised the TO hours to reflect only undergraduate hours rather than undergraduate or graduate hours.
d. Added clarifying text to the Economics and Finance TO because most of the courses should be taken at the junior or senior level.
e. Revised the Human Factors TO reflect the acronym change in TSM 421, TSM 422, and TSM 425. These were changed to ETMA 421, ETMA 422, and ETMA 425.
f. Revised the Supply Chain, Manufacturing, and Logistics TO to include ME 270. The ME 270 course is a prerequisite course for ME 451 and ME 452 and since students cannot take these courses without this prerequisite, we received permission from the Mechanical Science and Engineering Department to include the course within the TO.

Added clarifying text for Technical Electives and in the Track Options so students understand that courses which may appear on multiple lists can only be used for one requirement.

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?

Yes

Required courses

CS 173 - Discrete Structures
CS 225 - Data Structures
MATH 257 - Linear Algebra w Computat Appl
ME 270 - Design for Manufacturability

Explain how the inclusion or removal of the courses/subjects listed above impacts the offering departments.

The current Liberal Education requirement is satisfied by a student completing 6 credit hours beyond those required by campus' General Education requirement from Humanities & the Arts, Social & Behavioral Sciences, or a college-curated list of courses

(containing courses from over 120 rubrics across campus). An analysis of student course selection in the Liberal Education category indicates 25% of courses are taken in the College of Liberal Arts & Sciences, 20% from the College of Applied Health Sciences, 18% from Gies College of Business, 11% from the College of Agricultural, Consumer and Environmental Sciences, 11% from the College of Fine and Applied Arts, and 9% from The Grainger College of Engineering. Less than 2% of credits are taken in each of the remaining colleges and units across campus.

Although it might stand to reason that removal of the Liberal Education requirement would reduce the amount of credits Grainger Engineering students take outside of their home college, the data do not support that assertion. Specifically, despite the current Liberal Education requirement being set at 6 credit hours, the average number of credit hours completed from the Liberal Education course list upon graduation is 11.9. Through discussions with departmental and college advisors as well as students, students are making course selections not because the course satisfies the Liberal Education requirement, but because they are interested in the coursework offered outside of their home college, are pursing minors and other educational opportunities, and are looking to balance course loads between technical and non-technical courses. Taken together, the data and evidence from advisors and students suggest that students will continue to take the types of courses represented on the Liberal Education course list, even if not specifically required to do so.

A subset of IE students will pursue the CS coursework and a CS minor in addition to their degree program. This will not be all students. The ISE Department has the approval from the CS Department for this.

All IE students will be required to complete MATH 257.

A subset of IE students will pursue the Supply Chain, Manufacturing, and Logistics Track Option. This will not be all students. The ISE Department has the approval from the MechSE Department for this.

Attach letters of support or acknowledgement from other departments.	CS courses taken by ISE students, Beck signed tp.pdf ISE_letter_Math_257.pdf Support_Letter_ISE.pdf Letters of Acknowledgement - Liberal Education Electives.pdf

Program Regulation and Assessment

Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).

Graduates should have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

3. an ability to communicate effectively with a range of audiences.

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies. ~~NA~~

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: Industrial Engineering, BS Side by Side.xlsx

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 - Overview Tab

Text for Overview tab on the Catalog Page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Statement for Programs of Study Catalog

Graduation Requirements

Minimum Technical GPA: 2.0
TGPA is required for required Engineering and Technical Elective courses, as well as MATH 257. ~~MATH 415.~~ See **Technical GPA** to clarify requirements.

Minimum Overall GPA: 2.0

Minimum hours required for graduation: 128 hours

General education: Students must complete the Campus General Education requirements including the campus general education language requirement. One of the SBS courses must be an introductory economics course (ECON 102 ~~(ECON 102~~ or ECON 103). ~~ECON 103).~~ SE 494 and SE 495 will satisfy a core course requirement and the Campus General Education Advanced Composition requirement.

~~**Specific Advanced Composition courses required for this degree are listedbelow.**~~**Orientation and Professional Development**

Course List

Code	Title	Hours
ENG 100	Grainger Engineering Orientation Seminar (External transfer students take ENG 300.)	1
SE 100	Introduction to ISE	1
SE 290	ISE Undergraduate Seminar	0
Total Hours		2

Foundational Mathematics and Science

Course List

Code	Title	Hours
CHEM 102	General Chemistry I	3
CHEM 103	General Chemistry Lab I	1
MATH 221	Calculus I (MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 of 5 credit hours count towards degree.)	4
MATH 231	Calculus II	3
MATH 241	Calculus III	4
MATH 257	Linear Algebra with Computational Applications	3

Code	Title	Hours
MATH 285	Intro Differential Equations	3
~~MATH 415~~	~~Applied Linear Algebra~~	~~3~~
PHYS 211	University Physics: Mechanics	4
PHYS 212	University Physics: Elec & Mag	4
PHYS 213	Univ Physics: Thermal Physics	2
Total Hours		31

Industrial Engineering Technical Core

Course List

Code	Title	Hours
CS 101	Intro Computing: Engrg & Sci (CS 124 may be substituted.)	3
ECE 110	Introduction to Electronics	3
IE 300	Analysis of Data	3
IE 310	Deterministic Models in Optimization	3
IE 360	Facilities Planning and Design	3
IE 361	Production Planning & Control	3
IE 370	Stochastic Processes and Applications	3
IE 371	Simulation Modeling with Applications for Industrial Engineering	3
IE 400	Design & Anlys of Experiments	3
~~IE 413~~	~~Simulation~~	~~3~~
ME 330	Engineering Materials	4
SE 101	Engineering Graphics & Design	3
SE 261	Business Side of Engineering	2
SE 494	Senior Engineering Project I	3
SE 495	Senior Engineering Project II	2
TAM 211	Statics	3
TAM 212	Introductory Dynamics	3
TAM 251	Introductory Solid Mechanics	3
Total Hours		50

Track Option Electives

Course List

Code	Title	Hours
~~Track option electives. Courses selected from departmentally approved lists of Track Option Electives or by petition to the department. The current Track options include:~~		~~12~~
Track options include courses selected from departmentally approved lists. Courses on these elective lists may only be used to fulfill one curricular requirement.		12
Computational Methods in IE		
Track Core requirement - complete 2 courses:		
CS 173	Discrete Structures	3
CS 225	Data Structures	4
Track Electives - select remaining courses from this list:		
All 200-, 300-, and 400-level CS courses excluding CS 210, CS 211, CS 397, CS 398, and CS seminar and senior project courses.		
Economics and Finance (E&F)		
Track Core - complete 2 courses from this list:		
ACE 427	Commodity Price Analysis	3
IE 420	Financial Engineering	3
SE 450	Decision Analysis I	3

Code	Title	Hours
Track Electives - select remaining courses from this list of courses. Of these courses, only 1 selected may be at the 100 or 200 level		
ACE 410	Energy Economics	3
ACE 427	Commodity Price Analysis	3
ACE 428	Commodity Futures and Options	3
ACCY 200	Fundamentals of Accounting	3
ECON 302	Inter Microeconomic Theory	3
ECON 303	Inter Macroeconomic Theory	3
ECON 420	International Economics	2 to 4
ECON 471	Intro to Applied Econometrics	2 to 4
FIN 221	Corporate Finance	3
FIN 300	Financial Markets	3
FIN 411	Investment & Portfolio Mngt	3
FIN 412	Options and Futures Markets	3
FIN 415	Fixed Income Portfolios	3
FIN 461	Banking and Financial Regulation	3
Human Factors		12
Track Core - complete the following course:		
IE 340	Human Factors	4
Track Electives - complete at least 3 of the following courses:		
Physical Ergonomics Focus		
BIOE 461	Cellular Biomechanics	4
or TAM 461	Cellular Biomechanics	
ETMA 421	Industrial and Agricultural Safety-Injury Prevention	3
ETMA 422	Industrial and Agricultural Occupational Illness Prevention	3
ETMA 425	Managing Industrial and Agricultural Safety Risks	3
KIN 355	Biomechanics of Human Movement	3
KIN 401	Measure & Eval in Kinesiology	3 or 4
ME 481	Whole-Body Musculoskel Biomech	3 or 4
ME 482	Musculoskel Tissue Mechanics	3 or 4
~~TSM 421~~	~~Course TSM 421 Not Found~~	
~~TSM 422~~	~~Course TSM 422 Not Found~~	
~~TSM 425~~	~~Course TSM 425 Not Found~~	
Cognitive Ergonomics Focus		
SE 450	Decision Analysis I	3 or 4
IE 445	Human Performance and Cognition in Context	3 or 4
Organizational Ergonomics Focus		
ANTH 411	Research Methods in Socio-Cultural Anthropology	3 or 4
ARCH 423	Soc/Beh Factors for Design	3

Code	Title	Hours
BADM 310	Mgmt and Organizational Beh	3
BADM 312	Designing and Managing Orgs	3
BADM 357	Digital Making Seminar	3
PSYC 245	Industrial Org Psych	3
Optional Health Focus		
CHLH 470	Technology, Health, and Aging	3 or 4
Industrial Engineering Fundamentals (IEF)		
Track Core - complete the following 4 courses:		
IE 330	Industrial Quality Control	3
IE 411	Optimization of Large Systems	3
IE 412	OR Models for Mfg Systems	3
IE 340	Human Factors	4
Operations Research (OR)		
Track Core - complete the following 2 courses:		
IE 410	Advanced Topics in Stochastic Processes & Applications	3
IE 411	Optimization of Large Systems	3
Track Electives - complete 2 courses from this list:		
ECE 490	Introduction to Optimization	3
IE 420	Financial Engineering	3
MATH 444	Elementary Real Analysis	3-4
or MATH 447	Real Variables	
MATH 484	Nonlinear Programming	3 or 4
SE 411	Reliability Engineering	3
STAT 410	Statistics and Probability II	3
or MATH 464	Statistics and Probability II	
STAT 420/ASRM 450	Methods of Applied Statistics	3
STAT 424	Analysis of Variance	3
STAT 425	Statistical Modeling I	3
Quality Engineering (QE)		
Track Core - complete the following course:		
IE 330	Industrial Quality Control	3
Track Core Elective - complete at least 1 of the following courses:		
IE 431	Design for Six Sigma	3
SE 411	Reliability Engineering	3
Track Elective- complete remaining courses from this list:		
STAT 410/MATH 464	Statistics and Probability II	3
STAT 420/ASRM 450	Methods of Applied Statistics	3
STAT 424	Analysis of Variance	3
STAT 426	Statistical Modeling II	3
Supply Chain, Manufacturing and Logistics (SC&L)		
Track Core - complete the following course:		
IE 412	OR Models for Mfg Systems	3
Track Electives - complete 3 of the following courses:		
ECE 470	Introduction to Robotics	4
IE 330	Industrial Quality Control	3

Code	Title	Hours
ME 270	Design for Manufacturability	3
ME 451	Computer-Aided Mfg Systems	3
ME 452	Num Control of Mfg Processes	3

Technical Electives

Course List

Code	Title	Hours
Courses on these elective lists may only be used to fulfill one curricular requirement.		
Computer science elective selected from the departmentally approved list of Computer Science Electives below:		3
CS 225	Data Structures	4
CS 357	Numerical Methods I	3
CS 411	Database Systems	3
CS 450	Numerical Analysis	3
IE 405	Computing for ISE	3
IE technical electives selected from the departmentally approved list of IE Technical Electives below:		3
IE 330	Industrial Quality Control	3
IE 340	Human Factors	4
IE 411	Optimization of Large Systems	3
IE 412	OR Models for Mfg Systems	3
IE 420	Financial Engineering	3
IE 431	Design for Six Sigma	3
IE 445	Human Performance and Cognition in Context	3
SE 310	Design of Structures and Mechanisms	3
SE 320	Control Systems	4
SE 424	State Space Design for Control	3

Free Electives

Course List

Code	Title	Hours
Additional course work, subject to the Grainger College of Engineering restrictions to Free Electives, so that there are at least 128 credit hours earned toward the degree.		11
Total Hours of Curriculm to Graduate		128

Course List

~~Code~~	~~Title~~	~~Hours~~
~~The Grainger College of Engineering Liberal Education course list, or additional courses from the campus General Education lists for Social and Behavioral Sciences or Humanities and the Arts 4~~		~~6~~
~~Free electives. Additional unrestricted course work, subject to certain exceptions as noted by the College, so that there are at least 128 credit hours earned toward the degree. 5~~		~~7~~
~~Total Hours of Curriculum to Graduate~~		~~128~~

~~**12**~~

~~MATH 220%7C *may be substituted, with four of the five credit hours applying toward the degree.* MATH 220%7C *is appropriate for students with no background in calculus.*~~

~~**3***Advanced Composition satisfied by completing the combination of* SE 494%7C *and* SE 495%7C.**4***~~

~~*The Grainger College of Engineering approved liberal education course list can be found here. Note that these credit hours could carry the required cultural studies designation required for campus general education requirements.*~~

~~**5***The Grainger College of Engineering restrictions to free electives can be found here.*~~

Corresponding Degree	BS Bachelor of Science

Program Features

Academic Level	Undergraduate
Does this major have transcripted concentrations?	No

What is the typical time to completion of this program?

4 years

What are the minimum Total Credit Hours required for this program?

128

CIP Code	143501 - Industrial Engineering.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

Admission Requirements

Desired Effective Admissions Term

Provide a brief narrative description of the admission requirements for this program. Where relevant, include information about licensure requirements, student background checks, GRE and TOEFL scores, and admission requirements for transfer students.

Describe how critical academic functions such as admissions and student advising are managed.

Enrollment

Describe how this revision will impact enrollment and degrees awarded.

These changes will not impact enrollment.

Estimated Annual Number of Degrees Awarded

Year One Estimate	5th Year Estimate (or when fully implemented)

What is the matriculation term for this program?
Fall

Budget

Are there budgetary implications for this revision?
No

Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?
No

Additional Budget Information

Attach File(s)

Financial Resources

How does the unit intend to financially support this proposal?

Will the unit need to seek campus or other external resources?
No

Attach letters of support

What tuition rate do you expect to charge for this program? e.g, Undergraduate Base Tuition, or Engineering Differential, or Social Work Online (no dollar amounts necessary)

Are you seeking a change in the tuition rate or differential for this program?
No

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?

No

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.

Attach File(s)

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.

These changes will not impact our faculty resources.

Library Resources

Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.

There is no impact to use the Library collections, resources, and services.

EP Documentation

EP Control Number	EP.22.091
Attach Rollback/Approval Notices	ep22091_response from sponsor_20220214.pdf
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook	BS:Industrial Engineerng -UIUC

Name

Program Code: 10KP0127BS

Minor Code	Conc Code	Degree Code	BS	Major Code
0127				

Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date

Effective Date:

Attached Document Justification for this request

Program Reviewer Comments

Key: 119

Key				
GREEN HIGHLIGHT = Course addition or requirement replacement				
RED HIGHLIGHT = Course to be removed from listed requirements.				
Yellow Highlight - Revision to requirement				
Current Program of Study			**New Program of Study**	
Graduation Requirements			**Graduation Requirements**	
Minimum Technical GPA: 2.0 TGPA is required for required Engineering and Technical Elective courses, as well as MATH 415. See **Technical GPA** to clarify requirements.			**Minimum Technical GPA:** 2.0 TGPA is required for required Engineering and Technical Elective courses, as well as MATH 257. See **Technical GPA** to clarify requirements.	
Minimum Overall GPA: 2.0			**Minimum Overall GPA: 2.0**	
Minimum hours required for graduation: 128 hours			**Minimum hours required for graduation: 128 hours**	
General education: Students must complete the Campus General Education requirements including the campus general education language requirement. One of the SBS courses must be an introductory economics course (ECON 102 or ECON 103). Specific Advanced Composition courses required for this degree are listed below.			General education: Students must complete the Campus General Education requirements including the campus general education language requirement. One of the SBS courses must be an introductory economics course (ECON 102 or ECON 103). SE 494 and SE 495 will satisfy a core course requirement and the Campus General Education Advanced Composition requirement.	
Current Requirement	**Current Hours**		**Revised Requirement**	**Revised Hours**
Orientation and Professional Development	**1**		**Orientation and Professional Development**	**2**
ENG 100: Engineering Orientation[1]	0		ENG 100: Engineering Orientation (External transfer students take ENG 300 instead)	1
SE 100: Introduction to ISE	1		SE 100: Introduction to ISE	1
SE 290: ISE Undergraduate Seminar	0		SE 290: ISE Undergraduate Seminar	0
Foundational Mathematics and Science	**31**		**Foundational Mathematics and Science**	**31**
CHEM 102: General Chemistry I	3		CHEM 102: General Chemistry I	3
CHEM 103: General Chemistry Lab I	1		CHEM 103: General Chemistry Lab I	1
MATH 221: Calculus I[2]	4		MATH 221: Calculus I (Math 220 may be substituted. MATH 220 is appropriate for students with no backgrou	4
MATH 231: Calculus II	3		MATH 231: Calculus II	3
MATH 241: Calculus III	4		MATH 241: Calculus III	4
			MATH 257: Linear Algebra with Computational Applications	3
MATH 285: Intro Differential Equations	3		MATH 285: Intro Differential Equations	3
MATH 415: Applied Linear Algebra	3			
PHYS 211: University Physics: Mechanics	4		PHYS 211: University Physics: Mechanics	4
PHYS 212: University Physics: Elec & Mag	4		PHYS 212: University Physics: Elec & Mag	4
PHYS 213: Univ Physics: Thermal Physics	2		PHYS 213: Univ Physics: Thermal Physics	2
Industrial Engineering Technical Core	**50**		**Industrial Engineering Technical Core**	**50**
CS 101: Intro Computing: Engrg & Sci	3		CS 101: Intro Computing: Engrg & Sci (CS 124 may be substituted.)	3
ECE 110: Introduction to Electronics	3		ECE 110: Introduction to Electronics	3
IE 300: Analysis of Data	3		IE 300: Analysis of Data	3
IE 310: Deterministic Models in Optimization	3		IE 310: Deterministic Models in Optimization	3
IE 360: Facilities Planning and Design	3		IE 360: Facilities Planning and Design	3
IE 361: Production Planning & Control	3		IE 361: Production Planning & Control	3
IE 370: Stochastic Processes and Applications	3		IE 370: Stochastic Processes and Applications	3
			IE 371: Simulation Modeling for IE	3
IE 400: Design & Anlys of Experiments	3		IE 400: Design & Anlys of Experiments	3
IE 413: Simulation	3			
ME 330: Engineering Materials	4		ME 330: Engineering Materials	4
SE 101: Engineering Graphics & Design	3		SE 101: Engineering Graphics & Design	3
SE 261: Business Side of Engineering	2		SE 261: Business Side of Engineering	2
SE 494: Senior Engineering Project I [3]	3		SE 494: Senior Engineering Project I	3
SE 495: Senior Engineering Project II [3]	2		SE 495: Senior Engineering Project II	2
TAM 211: Statics	3		TAM 211: Statics	3
TAM 212: Introductory Dynamics	3		TAM 212: Introductory Dynamics	3
TAM 251: Introductory Solid Mechanics	3		TAM 251: Introductory Solid Mechanics	3
Track Option Electives			**Track Option Electives**	
Track option electives. Courses selected from departmentally approved lists of Track Option Electives or by petition to the department. The current Track options include:	12		Track options include courses selected from departmentally approved lists. Courses on these elective lists may only be used to fulfill one curricular requirement.	12
			Computational Methods in IE	
			Track Core requirement - complete 2 courses:	
			CS 173: Discrete Structures	3
			CS 225: Data Structures	4
			Track Electives - select remaining courses from this list:	
			All 200-, 300-, and 400-level CS courses excluding CS 210, CS 211, CS 397, CS 398, and CS seminar and senior project courses.	
Economics & Finance (E&F)			**Economics & Finance (E&F)**	
Track Core - Compete at least 2 of the following courses:			Track Core - complete 2 courses from this list:	
ACE 427: Commodity Price Analysis	3		ACE 427 Commodity Price Analysis	3
IE 420: Financial Engineering	3 or 4		IE 420 Financial Engineering	3
SE 450: Decision Analysis I	3 or 4		SE 450 Decision Analysis I	3
Track Elective - Complete 2 of the following courses:			Track Electives - select remaining courses from this list of courses. Of these courses, only 1 selected may be at the 100 or 200 level.	
ACCY 200: Fundamentals of Accounting	3		ACCY 200 Fundamentals of Accounting	3
ACE 410: Energy Economics	3 or 4		ACE 410 Energy Economics	3
ACE 427: Commodity Price Analysis	3		ACE 427 Commodity Price Analysis	3
ACE 428: Commodity Futures and Options	3		ACE 428 Commodity Futures and Options	3
ECON 302: Inter Microeconomic Theory	3		ECON 302 Inter Microeconomic Theory	3
ECON 303: Inter Macroeconomic Theory	3		ECON 303 Inter Macroeconomic Theory	3
ECON 420: International Economics	3		ECON 420 International Economics	3
ECON 471: Intro to Applied Econometrics	3		ECON 471 Intro to Applied Econometrics	3
FIN 221: Corporate Finance	3		FIN 221 Corporate Finance	3
FIN 300: Financial Markets	3		FIN 300 Financial Markets	3
FIN 411: Investment & Portfolio Mngt	3		FIN 411 Investment & Portfolio Mngt	3
FIN 412: Options and Futures Markets	3		FIN 412 Options and Futures Markets	3
FIN 415: Fixed Income Portfolios	3		FIN 415 Fixed Income Portfolios	3
FIN 461: Banking and Financial Regulation	3		FIN 461: Banking and Financial Regulation	3
Human Factors			**Human Factors**	
Track Core - Complete the following course:			Track Core - complete the following course:	
IE 340: Human Factors	4		IE 340: Human Factors	4
Track Electives - Comlete at least 3 of the following courses:			Track Electives - complete at least 3 of the following courses:	
Physical Ergonomics Focus			Physical Ergonomics Focus	
BIOE 461/TAM 461: Cellular Biomechanics	4		BIOE 461/TAM 461: Cellular Biomechanics	4
			ETMA 421: Industrial and Agricultural Safety-Injury Prevention	3
			ETMA 422: Industrial and Agricultural Occupational Illness Prevention	3
			ETMA 425: Managing Industrial and Agricultural Safety Risks	3
KIN 355: Biomechanics of Human Movement	3		KIN 355: Biomechanics of Human Movement	3
KIN 401: Measure and Evaluation of Kinesiology	3		KIN 401: Measure and Evaluation of Kinesiology	3
ME 481: Whole-Body Musculoskeletal Biomechanics	3		ME 481: Whole-Body Musculoskeletal Biomechanics	3
ME 482: Musculoskeletal Tissue Mechanics	3		ME 482: Musculoskeletal Tissue Mechanics	3
TSM 421: Ag Safety – Injury Prevention	3			
TSM 422: Ag Health – Illness Prevention	3			
TSM 425: Managing Ag Safety Risk	3			
Cognitive Ergonomics Focus			Cognitive Ergonomics Focus	
SE 450: Decision Analysis	3		SE 450: Decision Analysis	3
IE 445: Human Performance and Cognition in Context	3		IE 445: Human Performance and Cognition in Context	3
Organizational Ergonomics Focus			Organizational Ergonomics Focus	
ANTH 411: Research Methods in Socio-Cultural Anthropology	3		ANTH 411: Research Methods in Socio-Cultural Anthropology	3
ARCH 423: Social/Behavioral Factors for Design	3		ARCH 423: Social/Behavioral Factors for Design	3
BADM 310: Management and Organizational Behavior	3		BADM 310: Management and Organizational Behavior	3
BADM 312: Designing and Managing Organizations	3		BADM 312: Designing and Managing Organizations	3
BADM 357: Digital Making Seminar	3		BADM 357: Digital Making Seminar	3
PSYC 245: Industrial/Organizational Psychology	3		PSYC 245: Industrial/Organizational Psychology	3
Optional Health Focus			Optional Health Focus	
CHLH 470: Technology, Health and Aging	3		CHLH 470: Technology, Health and Aging	3
Industrial Engineering Fundamentals (IEF)			**Industrial Engineering Fundamentals (IEF)**	
Track Core - Complete the following 4 courses:			Track Core - complete the following 4 courses:	
IE 330: Industrial Quality Control	3		IE 330: Industrial Quality Control	3
IE 411: Optimization of Large Systems	3		IE 411: Optimization of Large Systems	3
IE 412: OR Models for Mfg Systems	3		IE 412: OR Models for Mfg Systems	3
IE 340 Human Factors	3		IE 340 Human Factors	3
Operations Research (OR)			**Operations Research (OR)**	
Track Core - Complete the following 2 courses:			Track Core - complete the following 2 courses:	
IE 410: Advanced Topics in Stochastic Processes & Applications	3 or 4		IE 410: Advanced Topics in Stochastic Processes & Applications	3
IE 411: Optimization of Large Systems	3 or 4		IE 411: Optimization of Large Systems	3
Track Electives - Complete 2 of the following courses:			Track Electives - complete 2 courses from this list:	
ECE 490: Introduction to Optimization	3 or 4		ECE 490: Introduction to Optimization	3
IE 420: Financial Engineering	3 or 4		IE 420: Financial Engineering	3
MATH 444: Elementary Real Analysis or MATH 447: Real Variables	3-4		MATH 444: Elementary Real Analysis or MATH 447: Real Variables	3-4
MATH 484: Nonlinear Programming	3 or 4		MATH 484: Nonlinear Programming	3 or 4
SE 411: Reliability Engineering	3 or 4		SE 411: Reliability Engineering	3
STAT 410: Statistics and Probability II MATH 464: Statistics and Probability II	3-4		STAT 410/MATH 464: Statistics and Probability II	3
STAT 420/ASRM 450: Methods of Applied Statistics	3 or 4		STAT 420/ASRM 450: Methods of Applied Statistics	3
STAT 424: Analysis of Variance	3 or 4		STAT 424: Analysis of Variance	3
STAT 425: Statistical Modeling I	3 or 4		STAT 425: Statistical Modeling I	3

Quality Engineering (QE)		**Quality Engineering (QE)**	
Track Core - Complete the following course:		Track Core - complete the following course:	
IE 330: Industrial Quality Control	3	IE 330: Industrial Quality Control	3
Track Core - Complete 1 of the following courses:		Track Core Elective - complete at least 1 of the following courses:	
IE 431: Design for Six Sigma	3	IE 431: Design for Six Sigma	3
SE 411: Reliability Engineering	3 or 4	SE 411: Reliability Engineering	3
Track Elective - Complete 1 of the following courses:		Track Elective - complete remaining courses from this list:	
STAT 410: Statistics and Probability II MATH 464: Statistics and Probability II	3-4	STAT 410/MATH 464: Statistics and Probability II	3
STAT 420/ASRM 450: Methods of Applied Statistics	3 or 4	STAT 420/ASRM 450: Methods of Applied Statistics	3
STAT 424: Analysis of Variance	3 or 4	STAT 424: Analysis of Variance	3
STAT 426: Statistical Modeling II	3 or 4	STAT 426: Statistical Modeling II	3
Supply Chain, Manufacturing and Logistics (SC&L)		**Supply Chain, Manufacturing and Logistics (SC&L)**	
Track Core - Complete the following course:		Track Core - complete the following course:	
IE 412: OR Models for Mfg Systems	3 or 4	IE 412: OR Models for Mfg Systems	3
Track Electives - Complete 3 of the following courses:		Track Electives - complete 3 of the following courses:	
ECE 470: Introduction to Robotics	4	ECE 470: Introduction to Robotics	4
IE 330: Industrial Quality Control	3	IE 330: Industrial Quality Control	3
		ME 270: Design for Manufacturability	3
ME 451: Computer-Aided Mfg Systems	3 or 4	ME 451: Computer-Aided Mfg Systems	3
ME 452: Num Control of Mfg Processes	3 or 4	ME 452: Num Control of Mfg Processes	3
Technical Electives		**Technical Electives**	
		Courses on these elective lists may only be used to fulfill one curricular requirement.	
Computer science elective selected from the departmentally approved list of Computer Science Electives below:	3	**Computer science elective selected from the departmentally approved list of Computer Science Electives below:**	**3**
CS 225: Data Structures	3	CS 225: Data Structures	3
CS 357: Numerical Methods I	4	CS 357: Numerical Methods I	4
CS 411: Database Systems	3 or 4	CS 411: Database Systems	3
CS 450: Numerical Analysis	3 or 4	CS 450: Numerical Analysis	3
IE 405: Computing for ISE	3 or 4	IE 405: Computing for ISE	3
IE technical electives selected from the departmentall approed list of IE Technical Electives below:	3	**IE technical electives selected from the departmentally approved list of IE Technical Electives below. These**	**3**
IE 330: Industrial Quality Control	3	IE 330: Industrial Quality Control	3
IE 340: Human Factors	4	IE 340: Human Factors	4
IE 411: Optimization of Large Systems	3 or 4	IE 411: Optimization of Large Systems	3
IE 412: OR Models for Mfg Systems	3 or 4	IE 412: OR Models for Mfg Systems	3
IE 420: Financial Engineering	3 or 4	IE 420: Financial Engineering	3
IE 431: Design for Six Sigma	3	IE 431: Design for Six Sigma	3
IE 445: Human Performance and Cognition in Context	3 or 4	IE 445: Human Performance and Cognition in Context	3
SE 310: Design of Structures and Mechanisms	3	SE 310: Design of Structures and Mechanisms	3
SE 320: Control Systems	4	SE 320: Control Systems	4
SE 424: State Space Design for Control	3	SE 424: State Space Design for Control	3
Electives		Free Electives	
The Grainger College of Engineering Liberal Education course list, or additional courses from the campus General Education lists for Social and Behavioral Sciences or Humanities and the Arts [4]	6		
Free electives. Additional unrestricted course work, subject to certain exceptions as noted by the College, so that there are at least 128 credit hours earned toward the degree. [5]	6	Additional course work subject to the Grainger College of Engineering restrictions to Free Electives so that there are at least 128 credit hours earned toward the degree. (https://go.grainger.illinois.edu/FreeElectives)	11
Total Hours of Curriculum to Graduate	**128**	**Total Hours of Curriculum to Graduate**	**128**

[1] External transfer students take ENG 300 instead.
[2] MATH 220 may be substituted, with four of the five credit hours applying toward the degree. MATH 220 is appropriate for students with no background in calculus.
[3] Advanced Composition satisfied by completing the combination of SE 494 and SE 495.
[4] The Grainger College of Engineering approved liberal education course list can be found here. Note that these credit hours could carry the required cultural studies designation required for campus general education requirements.
[5] The Grainger College of Engineering restrictions to free electives can be found here.

ILLINOIS

THE GRAINGER COLLEGE OF ENGINEERING
Department of Mechanical Science & Engineering
144 Sidney Lu Mechanical Engineering Building, MC-244
1206 W. Green St.
Urbana, IL 61801

15 November, 2021

Carolyn Beck
Associate Head of Undergraduate Studies
Industrial and Systems Engineering

Dear Prof. Beck,

The Department of Mechanical Science and Engineering will support your request to allow B.S. degree students in the ISE program to take ME 270, ME 360, ME 451, ME 452, ME 460, ME 461, ME 471 and TAM 470 courses as part of their subject area concentrations. The proposed curriculum will not place an unacceptable burden on our department. However, MechSE will continue to provide priority registration in these courses to its own degree program students, consistent with current policies.

Best regards,

Sanjiv Sinha

Sanjiv Sinha
Associate Head for Undergraduate Programs
Mechanical Science and Engineering

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Department of Mathematics

273 Altgeld Hall, MC-382
1409 West Green Street
Urbana, IL 61801

Re: Use of Math 257 in Industrial and Systems Engineering

The Mathematics Department, working with the Grainger College of Engineering, has recently created the course MATH 257, *Linear Algebra with Computational Applications*. Quoting from the justification of the approved proposal, "In the future, MATH 257 will replace the MATH 415 requirement in many science and engineering curricula." With this in mind, the department would be pleased to have Industrial and Systems Engineering add MATH 257 as an option to MATH 415 in their curricula. As the Mathematics department is reallocating instructional resources from Math 415 to Math 257 as the need shifts, this will not cause any undue difficulties for Mathematics resources.

Sincerely

Randy McCarthy

Randy McCarthy
Professor of Mathematics
Dir of Undergraduate Studies in Math
rmccrthy@illinois.edu

telephone 217-333-3350 • *fax* 217-333-9576
email office@math.uiuc.edu • *url* http://www.math.uiuc.edu/

ILLINOIS

DEPARTMENT OF COMPUTER SCIENCE
Thomas M. Siebel Center for Computer Science
201 N. Goodwin Ave.
Urbana, IL 61801-2302 USA

NANCY M. AMATO
Abel Bliss Professor and Head
2248 Siebel Center
namato@illinois.edu

November 15, 2021

Dear Prof. Carolyn Beck,

Computer Science is fully supportive of the Department of Industrial and Enterprise Systems Engineering using CS 173, CS 225, and other 200, 300, and 400 level CS courses in subject area concentrations in both their 10KP0127BS: Industrial Engineering, BS and 10KP5532BS: Systems Engineering & Design, BS undergraduate degree programs.

Sincerely,

Nancy M. Amato
Abel Bliss Professor and Head
Department of Computer Science

ILLINOIS

COLLEGE OF AGRICULTURAL, CONSUMER
& ENVIRONMENTAL SCIENCES

Office of the Dean
227 Mumford Hall, MC-710
1301 W. Gregory Drive
Urbana, IL 61801

January 13, 2022

Dear Dean Bashir,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in The Grainger College of Engineering. I understand that this requirement included an extensive list of courses Grainger Engineering students could choose from, including some from our college. Grainger Engineering students will continue to be welcome to enroll in the courses formerly on your Liberal Education list as Free Electives after the removal of this requirement.

Sincerely,

Germán Bollero, Interim Dean

ILLINOIS

COLLEGE OF APPLIED HEALTH SCIENCES

Office of the Dean
110 Huff Hall, MC-586
1206 S. Fourth St.
Champaign, IL 61820

January 25, 2022

Dear Dean Bashir,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in The Grainger College of Engineering. I understand that this requirement included an extensive list of courses Grainger Engineering students could choose from, including some from our college. Grainger Engineering students will continue to be welcome to enroll in the courses formerly on your Liberal Education list as Free Electives after the removal of this requirement.

While I support the move the give your students more freedom in course selection, it is important to express my concern that discontinuing your Liberal Education requirement may negatively impact my college's finances by reducing the IUs generated from lower enrollments in AHS courses. As you know, the current budget model rewards colleges financially based on the number of registrants in courses. I am hopeful that your students and advisors will continue to view AHS courses as relevant and valuable when they are selecting electives.

Sincerely,

Cheryl Hanley-Maxwell

Dean

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

College of Education
Undergraduate Student Academic Affairs Office
110 Education Building, MC-708
1310 S. Sixth St.
Champaign, IL 61820

Dear Dean Bashir,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in The Grainger College of Engineering. I understand that this requirement included an extensive list of courses Grainger Engineering students could choose from, including some from our college. Grainger Engineering students will continue to be welcome to enroll in the courses formerly on your Liberal Education list as Free Electives after the removal of this requirement.

Sincerely,

Assistant Dean for Academic Affairs
College of Education | University of Illinois at Urbana-Champaign

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

College of Fine & Applied Arts

Office of the Dean
100 Architecture Building, MC-622
608 E. Lorado Taft Dr.
Champaign, IL 61820

21 December 2021

Rashid Bashir, Dean
306 Engineering Hall
1308 W. Green St.
M/C 266
Urbana, IL 61801

Dear Dean Bashir,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in The Grainger College of Engineering. I understand that this requirement included an extensive list of courses Grainger Engineering students could choose from, including some from the College of Fine & Applied Arts. Grainger Engineering students will continue to be welcome to enroll in the courses formerly on your Liberal Education list as Free Electives after the removal of this requirement.

Sincerely,

Kevin Hamilton
Dean and Professor

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

College of Liberal Arts & Sciences
2090 Lincoln Hall, MC-448
702 S. Wright St.
Urbana, IL 61801

December 20, 2021

Dear Dean Bashir,

Thank you for informing the College of LAS of the proposed removal of the Liberal Education requirement in all undergraduate programs in the Grainger College of Engineering. I understand that this requirement includes an extensive list of courses from which your students could choose some, many of which are from our college. Grainger Engineering students will continue to be welcome to take our courses formerly on your Liberal Education list as free electives after the removal of this requirement from their programs of study.

Sincerely,

Venetria K. Patton
Harry E. Preble Dean

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

College of Media
Office of the Dean
119 Gregory Hall, MC-462
810 S. Wright St.
Urbana, IL 61801

January 13, 2022

Rashid Bashir, Dean
The Grainger College of Engineering
306 Engineering Hall
1308 W. Green Street
Urbana, IL 61801

Dear Dean Bashir,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in The Grainger College of Engineering. I understand that this requirement included an extensive list of courses Grainger Engineering students could choose from, including some from our college. Grainger Engineering students will continue to be welcome to enroll in the courses formerly on your Liberal Education list as Free Electives after the removal of this requirement.

Sincerely,

Tracy Sulkin
Dean, College of Media

Gies College of Business
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Office of the Dean
260 Wohlers Hall, 1206 S. 6th Street
Champaign, IL 61820
217.333.2747

December 13th, 2021

Dean Bashir,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in The Grainger College of Engineering. I understand that this requirement included an extensive list of courses Grainger Engineering students could choose from, including some from Gies College of Business. Students from Grainger will continue to be welcome to enroll in the courses formerly on your Liberal Education list as Free Electives after the removal of this requirement.

Sincerely,

Jeffrey R. Brown
Dean, Gies College of Business

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

School of Information Sciences

501 E. Daniel St., MC-493
Champaign, IL 61820-6211

February 3, 2022

Dean Rashid Bashir
306 Engineering Hall
1308 West Green Street
Urbana, IL 61801

Dear Rashid,

Thank you for informing us of the proposed removal of the Liberal Education requirements in all undergraduate programs in the Grainger College of Engineering. I understand that this requirement included an extensive list of courses that Grainger Engineering students could choose from, including some from the iSchool. This letter acknowledges that Grainger Engineering students will continue to be able to enroll in courses as articulated and constrained in Course Explorer and formerly on your Liberal Education list as Free Electives, after the removal of this requirement.

Sincerely,

Eunice Santos

Eunice Santos
Professor and Dean

From: Hanley-Maxwell, Cheryl D <cherylhm@illinois.edu>
Sent: Monday, February 14, 2022 3:57 PM
To: Miller, Nolan H <nmiller@illinois.edu>
Subject: RE: Senate Ed Pol - Re: change to Grainger Liberal Education requirement

That's fine. Thanks for asking

CHERYL D HANLEY-MAXWELL
Dean

University of Illinois at Urbana-Champaign
College of Applied Health Sciences
108 Huff Hall
1206 S Fourth | M/C 586
Champaign, IL 61820
217.333.2131 | cherylhm@illinois.edu
www.ahs.illinois.edu
(217) 333-0404 (FAX)

Human kindness has never weakened the stamina or softened the fiber of a free people. A nation does not have to be cruel to be tough. -- President Franklin D. Roosevelt

From: Miller, Nolan H <nmiller@illinois.edu>
Sent: Monday, February 14, 2022 1:49 PM
To: Hanley-Maxwell, Cheryl D <cherylhm@illinois.edu>
Subject: RE: Senate Ed Pol - Re: change to Grainger Liberal Education requirement

Dear Cheryl,

Thanks again for talking with me about the changes to the Grainger BS programs. I read the statement you sent to the committee today. The Chair would like to include it in the record that is forwarded to the Senate. Is it ok to include the email you sent below?

Thanks,

Nolan

_____

NOLAN H MILLER
Daniel and Cynthia Mah Helle Professor in Finance | Department of Finance
Director, Center for Business and Public Policy
Gies College of Business | University of Illinois at Urbana-Champaign
217.244.2847 | nmiller@illinois.edu | http://www.business.illinois.edu/nmiller

From: Hanley-Maxwell, Cheryl D <cherylhm@illinois.edu>
Sent: Thursday, February 10, 2022 1:49 PM
To: Miller, Nolan H <nmiller@illinois.edu>
Subject: RE: Senate Ed Pol - Re: change to Grainger Liberal Education requirement

Hi Nolan –

I appreciate what Ed Pol does in juggling the interests and concerns of the various programs across the campus, while keeping the students in mind. I served on a committee like this at my previous institution and know that it all boils down to what is best for the students' learning. Thanks for reminding me of that.

Here is a statement: While the Grainger proposal has the potential to financially affect AHS, we want to affirm another college's right to control their program requirements and student experiences, ensuring the best possible outcomes for their students. As a result, AHS supports this proposal and hopes that Grainger advisors will recognize the valuable contribution AHS classes make to the education of their students and continue to encourage them to consider relevant and/or high interest classes in AHS.

Hope this works!

Cheryl

CHERYL D HANLEY-MAXWELL, PHD
Dean

University of Illinois at Urbana-Champaign
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Human kindness has never weakened the stamina or softened the fiber of a free people. A nation does not have to be cruel to be tough. -- President Franklin D. Roosevelt