RECEIVED BY SENATE
12/09/2024

EP.25.035
December 9, 2024

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN SENATE
COMMITTEE ON EDUCATIONAL POLICY
(Final; Information)

EP.25.035 Report of Administrative Approvals Through November 4, 2024

In accordance with Part B.9.a of the Senate *Bylaws*, "Senate committees are authorized to act for and in the name of the Senate on minor matters. Such actions shall be reported promptly to the Senate…" Below is a listing of items categorized as administrative approvals and approved by the Senate Committee on Educational Policy in the name of the Senate on the dates indicated. For each program listing, there is no change to the total hours required. Additional information for each approval is attached.

Section 1. This Section Approved by EP on November 18, 2024

A. Graduate Programs

1. **Revise the Master of Science in Journalism in the College of Media and the Graduate College (key 339)** – updates the Program of Study table to campus standards, which includes removing footnotes; reduces the number of project hours (JOUR 515) from 8 to 4 credit hours; eliminates JOUR 501 and 500 as a requirement; increases elective hours from 12 to 24. With this increase, the number of hours required for the degree remain the same. The program requires a minimum of 12 hours of journalism elective coursework. The Director of Graduate Studies must approve any non-Journalism courses chosen as electives.; requests an online program code for students electing to complete the degree completely online; and eliminates the GRE requirement for admission.
2. **Revise the Graduate Certificate in Human Resource Management in the School of Labor and Employment Relations and the Graduate College (key 1123)** - changes the requirement from 3 required courses, where one had an alternative course option, that students must take to be a choice from a list of 6 courses where students select 3 courses.; adds LER 595 and LER 537 to the list of course choices.; adds an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate.; updates admissions requirements to remove the 'interview' with applicants.; updates how the learning objectives are assessed; and updates length to completion to weeks with a shorter completion timeframe. Although a student could take 22 weeks to complete the certificate, there are several options to complete in as soon as 16 weeks.
3. **Revise the Graduate Certificate in Human Resources Data Analytics in the School of Labor and Employment Relations and the Graduate College (key 1126)** – changes the requirement from 3 required courses to be a choice from list from 4 courses where students select 3 courses.; adds LER 568 to the list of course choices.; adds an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate.; updates admissions requirements to remove the 'interview' with applicants.; updates how the learning objectives are assessed.; updates to matriculation will be noted on revision. There are noted changes in red within the matriculation term. The content

remains unchanged, but edits were highlighted.; and updates length to completion to weeks with a shorter completion timeframe. Although a student could take 22 weeks to complete the certificate, there are several options to complete in as soon as 16 weeks.

4. **Revise the Graduate Certificate in Fundamentals of Human Resources in the School of Labor and Employment Relations and the Graduate College (key 1119) -** changes the requirement from 3 required courses, where one had an alternative course option that students must take to be a choice from list from 6 courses where students select 3 courses.; adds LER 539 and LER 522 to the list of course choices.; adds an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate.; updates admissions requirements to remove the 'interview' with applicants.; updates how the learning objectives are assessed.; updates learning outcomes section with formatting changes, but the content of the learning outcomes will remain unchanged. There were a few items that needed to be numbered and a few grammatical errors.; updates matriculation as the revisions allow individuals more options for starting and completing the program.; and updates length to completion to weeks with a shorter completion timeframe. Although a student could take 22 weeks to complete the certificate, there are several options to complete in as soon as 16 weeks.
5. **Revise the Joint Program in the Master of Architecture in Architecture and Master of Urban Planning in Urban Planning in the College of Fine and Applied Arts and the Graduate College (KEY 1084) –** revises Program of Study to clarify joint program requirements and overlap; and changes GPA to 3.0 for the joint program in the Program Features section.

B. <u>Undergraduate Programs</u>

1. **Revise the Bachelor of Science in Sustainable Design in the College of Fine and Applied Arts (key 614)** - revises ARCH 273 in list of SD major electives so that the course is 4 hours (correct) instead of 3 hours as currently listed
2. **Revise the Bachelor of Science in Mechanical Engineering in the Grainger College of Engineering (key 120)** – updates technical electives to remove 10 courses with red-box error; updates technical electives (including professional technical electives) to include 70 additional MechSE Undergraduate Programs Committee approved courses; updates technical electives (including Professional technical electives) to include 46 cross-listed courses; moves ECON 102 or ECON 103 into major requirement; and modifies the formatting of the POS and additional text (e.g., graduation requirements, university requirements, and general education requirements) to adhere to the campus General Education Template.

<u>Section 2.</u> This Section Approved by EP on December 2, 2024

A. <u>Graduate Programs</u>

1. **Revise the Master of Science in Recreation, Sport and Tourism in the College of Applied Health Sciences and the Graduate College (key 421) –** edits elective hours from 12 to 8 hours and defines additional coursework such that students are allowed to choose any 500-level or 400-level (approved for graduate credit) UIUC course outside of RST. The choice will need to be made in consultation with the academic advisor.
2. **Revise the Graduate Certificate in Compensation Best Practices in the School of Labor and Employment Relations and the Graduate College (key 1121)** – changes the requirement from 3 required courses that students must take to be a choice from a list of 5 courses where students select 3 courses.; adds LER 543 and LER 535 to the list of course choices.; adds an updated statement in the Program of Study table

regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate.; updates how the learning objectives are assessed.; updates admissions requirements as we no longer have an 'interview' with applicants.; and updates time to completion.

3. **Revise the Concentration in Learning Design & Leadership in the College of Education and the Graduate College (key 996)** – revises concentration coursework to add EPOL 479.

B. <u>Undergraduate Programs</u>

1. **Revise the Bachelor of Science in Strategy, Innovation, and Entrepreneurship in the Gies College of Business (key 517) –** removes the special topics section of FIN 490 listed as an elective with the permanent course number of FIN 380.
2. **Revise the Bachelor of Science in Bioengineering in the Grainger College of Engineering (key 112) –** merges five separate track elective categories into a single 'technical electives' category, which includes all previously available track electives; excludes from the technical elective course list track-specific recommended free electives (SE 101, MCB 450, CHEM 442); eliminates duplicate courses from the technical elective course list; removes BIOE 416 to reduce redundancy since it is listed under home department rubric of ECE 416; and reorganizes technical elective course list in alphanumeric order.
3. **Revise the Bachelor of Science in Media and Cinema Studies in the College of Media (key 290)** – adds MACS 205 and MACS 284 and MACS 317 to the history course options in the Critical Media Production track; adds MACS 317 to the history course options in the General track; and updates the program of study to include general education requirements.
4. **Revise the Bachelor of Science in Chemical Engineering in the College of Liberal Arts and Sciences (key 268)** – removes STAT 400 from the List 2 technical electives list; and removes CHBE 411 from the List 1 technical electives list and thus adds it to the excluded core course list.
5. **Revise the Concentration in Biomolecular Engineering in the Bachelor of Science in Chemical Engineering in the College of Liberal Arts and Sciences (key 734)** - removes STAT 400 from the List 2 technical electives list; and removes CHBE 411 from the List 1 technical electives list and thus adds it to the excluded core course list.

Date Submitted: 04/29/24 9:31 am

Viewing: 10KS0278MS : Journalism, MS

Last approved: 01/21/20 4:45 pm

Last edit: 11/07/24 2:03 pm

Changes proposed by: Mira Sotirovic

Catalog Pages Using this Program	Journalism, MS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1642 Committee Chair**
3. **1642 Head**
4. **KT Committee Chair**
5. **KT Dean**
6. **University Librarian**
7. **Grad_College**
8. **COTE Programs**
9. **Provost**
10. **Senate EPC**
11. Senate
12. U Senate Conf
13. Board of Trustees
14. IBHE
15. HLC
16. DOE
17. DMI

Approval Path

1. 05/01/24 11:53 am
   Donna Butler (dbutler):
   Approved for U Program Review
2. 07/02/24 10:59 am
   Alison Davis (alison7):
   Approved for 1642 Committee Chair
3. 07/02/24 3:02 pm
   Mira Sotirovic (sotirovi):
   Approved for 1642 Head
4. 09/24/24 11:53 am

Jenny Oyallon-Koloski (joyallon): Approved for KT Committee Chair
5. 09/24/24 11:54 am
Katie Clark (keclark): Approved for KT Dean
6. 09/24/24 1:16 pm
Tom Teper (tteper): Approved for University Librarian
7. 11/05/24 3:27 pm
Allison McKinney (agrindly): Approved for Grad_College
8. 11/06/24 10:10 am
Suzanne Lee (suzannel): Approved for COTE Programs
9. 11/07/24 10:06 am
Brooke Newell (bsnewell): Approved for Provost

History

1. May 8, 2019 by Deb Forgacs (dforgacs)
2. Jan 21, 2020 by Mary Lowry (lowry)

Major (ex. Special Education)

This proposal is for a:

Revision

Administration Details

Official Program Name	Journalism, MS
Diploma Title	
Sponsor College	Media, College of
Sponsor Department	Journalism
Sponsor Name	Mira Sotirovic
Sponsor Email	sotirovi@illinois.edu
College Contact	Katie Clark
College Contact Email	keclark@illinois.edu
College Budget Officer	
College Budget Officer Email	

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.

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Fall 2024

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Master of Science in Journalism in the College of Media and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	The specific proposed revisions are: 1. Updating the Program of Study table to campus standards, which includes removing footnotes in both sections. 2. Reduce the number of project hours (JOUR 515) from 8 to 4 credit hours. 3. Eliminate JOUR 501 as a requirement. 4. Eliminate JOUR 500 as a requirement. 5. Increase elective hours from 12 to 24. With this increase, the number of hours required for the degree will remain the same. The program requires a minimum of 12 hours of journalism elective coursework. The Director of Graduate Studies must approve any non-Journalism courses chosen as electives. 6. Request an online program code for students electing to complete the degree completely online. The faculty also have decided to eliminate the GRE requirement for admission.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1. Updating Program of Study. This is necessary to achieve transparency and for accessibility reasons.

2. Reduce the number of project hours (JOUR 515) from 8 to 4 credit hours. Currently, the project requires course work that extends into the summer semester. All our faculty have nine-month appointments, and no funding is available for the summer project supervision. By reducing the number of project hours to four, the students will be able to complete their projects during the spring semester.

3. Eliminate JOUR 501 as a requirement. The Department of Journalism received funding from the University of Illinois Investment for Growth program in 2022 to develop interdisciplinary curricular infrastructure for science and technology communication education on the undergraduate and graduate level. On the graduate level this initiative led to the development of an online science and technology journalism track. The modules created for this track do not depend or build on multimedia skills taught in JOUR 501, which makes this course unnecessary requirement.

4. Eliminate JOUR 500 as a requirement. We want to allow MS students flexibility to take JOUR 590 Advanced Topics in Science and Technology Journalism and other specialized electives to complete their degree.

5. Increase elective hours to 24. With this increase, the number of hours required for the degree will remain the same. We want to allow students to pursue a topical specialization in areas inside or outside Journalism department. In the past year, to support teaching in the area of science journalism, we hired three new faculty who will offer new online graduate electives in journalism.

6. Request an online program code. Because the program is now available for students to complete in-person or online, we will need an online program code to ensure students are assessed the appropriate tuition and fees.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

1. Knowledge of principles of journalism and its history and trends.
2. Expertise in news gathering through documents and data, interviews, and field observation.
3. Expertise in one of the major presentations methods in journalism, choosing among text, audio or video presentation, with an understanding of all of these presentation methods include the use of mobile devices.
4. An understanding of professional journalism, including its changing business models, job descriptions and increasing cross-disciplinary collaborations.
5. An understanding of various qualitative and quantitative methods in data journalism.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Learning outcomes #1 and #4 are assessed through satisfactory completion of the foundational pro-seminar (JOUR 505), which addresses issues, trends and ethics in journalism. Students complete weekly reading response assignments and a final, in-depth paper on a challenge facing journalism.

Learning outcomes #2, #3 and #5 are assessed via the production of work that is of professional quality. The bulk of student's coursework focuses on skill attainment, so the successful completion of journalistic stories in a variety of formats (e.g., text, audio, video, augmented and virtual reality) that are ready for publication or broadcast is the key factor in assessing learning. Students further demonstrate their proficiency via an independent reporting project (JOUR 515) culminating in publishable journalistic work that may take the form of a series of stories, a short documentary, a multimedia presentation, or the like.

Overall, students' success in obtaining internships and full-time employment is another key measure for determining whether learning outcomes have been achieved.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program Description and Requirements Attach Documents	MS Journalism Letter.pdf

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/PublicAdminRules2017.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.

Revised programs JOUR, MS_SideBySide.docx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

The Master of Science (MS) in Journalism prepares students for professional roles in a wide variety of organizations, from online, print and broadcast news outlets to nonprofit, higher education and government communication offices where journalistic skills are highly valued. The course work includes reporting, writing, multimedia and emerging media skills and completion of a professional project. Students may opt to specialize in science and technology journalism and/or data journalism via certificates.

The program is designed to meet the educational goals of 1) students who have recently earned a bachelor's degree in Journalism or a related field and want to explore a specific type of journalism in greater depth, 2) mid-career journalists and other professional communicators who want to expand their professional skills, and 3) students with a background in science, technology, engineering and math seeking to complement their expertise with journalistic skills for communicating it to the public.

This program is professional in nature and not intended for students interested in graduate study leading to the PhD. Students interested in pursuing a doctorate may want to consider applying to the PhD in Communications and Media offered in the Institute of Communications Research.

Statement for Programs of Study Catalog

Master of Science in Journalism ~~1 Other Requirements~~ ~~1~~

~~1 Undergraduates pursuing a B.S. in Journalism at Illinois are eligible to apply for the M.S. under a joint B.S./M.S. degree program. The B.S./M.S. requires a greater number of credit hours and more theoretical courses than the B.S./M.J. program. Students can apply for the B.S./M.S. program in the first semester of their junior year and, once admitted, are encouraged to select their remaining undergraduate journalism elective courses at the 200- and 300-level from courses covering skills other than those they emphasized in completing their undergraduate degree. As graduate students, they will enroll in a minimum of four advanced electives at the 400- and 500-levels, in addition to the required graduate courses JOUR 500, 505, and 515 (sections A and B). Electives may be in areas inside or outside Journalism to allow them to pursue a topical specialization. Those electives would require the approval of the Director of Graduate Studies. The B.S./M.S. requires a minimum of 16 hours of 500-level coursework, a 3.0 or higher GPA, and additional details and requirements are available on the department's website and in the Graduate College Handbook.~~

~~2 The Director of Graduate Studies must approve any non-Journalism courses chosen as electives.~~

~~First Year~~

~~Fall Semester~~	~~Hours~~	~~Spring Semester~~	~~Hours~~	~~Summer Semester~~	~~Hours~~
~~JOUR 501~~	~~4~~	~~JOUR 500~~	~~4~~	~~JOUR 515 (Section B)~~	~~4~~
~~JOUR 505~~	~~4~~	~~JOUR 515 (Section A)~~	~~4~~	-	
~~Electives -- minimum of 4 hours at the JOUR 4-- level~~	~~4~~	~~Electives -- minimum of two JOUR 4-- courses~~	~~8~~	-	
-	~~0~~	-	~~0~~	-	~~0~~

~~Total Hours 0~~

Course List

Code	Title	Hours
JOUR 505	Journalism Proseminar	4
JOUR 515	Master's Project	4
Electives		24
Minimum of 12 hours of elective coursework in journalism. The Director of Graduate Studies must approve any non-journalism courses chosen as electives. Students in the online Science & Technology Journalism specialization will be required to take all 24 hours of electives in Journalism online.		
Total Hours		32

Other Requirements

Grad Other Degree Requirements

Requirement	Description
Other requirements may overlap	
Minimum 500-level Hours Required Overall:	16
Minimum GPA:	3.0

Corresponding Degree	MS Master of Science

Program Features

Academic Level	Graduate
Does this major have transcripted concentrations?	No

What is the typical time to completion of this program?

9 months

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

32

What is the required GPA? 3.0

CIP Code 090401 - Journalism.

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.~~

On Campus and Online - 2 program types. Students can receive the entire program either on campus or online. Students can choose to take courses in either modality.

Describe the use of this delivery method:

The MS program in Journalism can be completed on campus or online; the latter option involves focusing on science, technology and data journalism, as those courses are offered online. The required seminar course (JOUR 505) and required master's project (JOUR 515) are offered in synchronous online format.

Admission Requirements

Desired Effective Admissions Term: Fall 2024

Is this revision a change to the admission status of the program?

No

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.

The Graduate College admission requirements apply. Specifically, the admission requirements are a minimum grade point average of 3.0 (A = 4.0) for the last two years of undergraduate work and any graduate work completed. In accordance with Graduate College requirements, applicants must receive a minimum score on the TOEFL of 103 and on the IELTS a minimum score of 7.5. Students are also required to provide a personal statement, a writing sample, and three letters of reference (at least one should be an academic reference). Students are admitted to begin graduate study in the fall semesters.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

The department is hopeful that clarifying how a student can complete the degree program in a single academic year and creating online certificate options that are stackable toward the degree will increase enrollment and number of degrees awarded.

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?

1. All required courses in the revised M.S. in journalism program have already been funded by the departmental instructional budget.

2. The Department of Journalism and the Institute for Genomic Biology (IGB) have received a $283,668 Investment for Growth grant to develop Science and Technology Communication Curricula at the University of Illinois. We use the funding partly to develop the science journalism track within our existing M.S. in journalism program. The funding supports the creation of online courses and their teaching (see the attached funding document).

3. The Department of Journalism is committed to continuing to fund the teaching of online courses in the science journalism track through tuition revenue generated by the students enrolled in the program. Our goal is to rebuild the program to a class size of 15-20 students per year.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

IfG grant funding.pdf

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)

On-campus students will pay the Grad Advertising/Journalism rate. Online students will pay the Grad Base Rate for online programs.

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

No impact on faculty resources is anticipated. No changes to student advising.

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.

Library collections, resources and services are sufficient to support the MS in Journalism program.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	MS:Journalism - UIUC
Program Code:	10KS0278MS

Minor Code	Conc Code	Degree Code	MS	Major Code
0278				

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (04/22/24 11:33 am):** Rollback: Please see email dated 4-22-24 for more information. **Brooke Newell (bsnewell) (11/06/24 1:08 pm):** Per Mary Lowry from Grad College re: reason for elimination of GRE requirement for admission - "Most programs have eliminated it or made it optional. It's not a good indicator of success in grad school."

Date Submitted: 09/30/24 4:00 pm

Viewing: 1PKS5715GCRU : Human Resource Management, GCRT (online)

Last approved: 06/12/24 11:38 am

Last edit: 11/08/24 9:57 am

Changes proposed by: Eden Haycraft Smothers

Catalog Pages Using this Program	Human Resource Management, CERT

Proposal Type:

In Workflow

1. **U Program Review**
2. **1568 Head**
3. **LG Dean**
4. **University Librarian**
5. **Grad_College**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DOE
15. DMI

Approval Path

1. 10/15/24 9:25 am Donna Butler (dbutler): Approved for U Program Review
2. 10/31/24 1:48 pm Becky Barker (ebarker): Approved for 1568 Head
3. 10/31/24 1:50 pm Lynne Hoveln (lhoveln): Approved for LG Dean
4. 11/05/24 10:58 am Claire Stewart (clairest): Approved for University Librarian
5. 11/06/24 9:45 am

Allison McKinney (agrindly): Approved for Grad_College
6. 11/06/24 10:10 am
Suzanne Lee (suzannel): Approved for COTE Programs
7. 11/07/24 10:06 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Jan 20, 2023 by Eden Haycraft Smothers (ehaycra)
2. Jun 12, 2024 by Emily Stuby (eastuby)
3. Jun 12, 2024 by Emily Stuby (eastuby)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Human Resource Management, GCRT (online)
Diploma Title	Graduate Certificate in Human Resource Management
Sponsor College	Labor & Empl. Relations, School of
Sponsor Department	Labor & Employment Relations
Sponsor Name	Eden Haycraft Smothers
Sponsor Email	ehaycra@illinois.edu

College Contact	Eden Haycraft Smothers ~~Becky Barker~~	College Contact Email	ehaycra@illinois.edu ~~ebarker@illinois.edu~~
College Budget Officer	Wyatt Martin		
College Budget Officer Email	wjmartin@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.

Eden Haycraft (ehaycra@illinois.edu), Becky Barker (ebarker@illinois.edu), Amit Kramer (kram@illinois.edu)

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Graduate Certificate in Human Resource Management in the School of Labor and Employment Relations and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	Below are the changes outlined in the revision. 1. Changing the requirement from 3 required courses, where one had an alternative course option, that students must take to be a choice from a list of 6 courses where students select 3 courses. 2. Adding LER 595 and LER 537 to the list of course choices. 3. Adding an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate. 4. Update to admissions requirements as we no longer have an 'interview' with

applicants.
5. Update on how the learning objectives are assessed.
6. Length to completion has been updated to weeks with a shorter completion timeframe.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

Below outlines the justification for each of the outlined changes above.

1. Expanding course options will enable students to complete each certificate more quickly, resulting in a shorter overall program duration. This adjustment will help align our certificates with those offered by competing institutions. Currently, completing this certificate takes two to three semesters, with three semesters often being too lengthy. With the new course choices, students could finish the certificate in just one semester, benefiting those who need to expedite their education. While the certificate programs qualify for financial aid, students must enroll in at least two courses per semester. By providing more course options, we can enhance financial aid opportunities for students. One of the main challenges LER faces when speaking with prospective certificate students is the duration of completion. This shorter completion time was also identified as an area for improvement when we had our programs evaluated by Hanover Research, which highlighted opportunities to make our programs more appealing.
2. Additional courses will allow students the ability to start and complete the program at various times throughout the year without a long lag time between the application to starting the program. The additional courses added within the revision (LER 595 and LER 537) were identified by faculty as a course that could assist in building upon leadership and management skills.
3. The Program of Study table needed revisions to accurately reflect the course additions and which master's program requirements could be fulfilled by this certificate offering in case individuals want to explore the master's program in the future. The credit hours required to complete the certificate remains unchanged (12 total credit hours).
4. LER realized that instead of using the word 'interview' we would conduct short informal info sessions with each applicant that will allow the applicant to ask questions regarding the certificate, course offerings, and what they can expect from engaging in the certificate. When listing this as an 'interview' we felt it was providing a barrier to entry that LER wants to avoid. A new statement is not needed as the informal info session is not a requirement.
5. There were new questions asked regarding assessment of learning objectives that we answered on the revision.
6. There are noted changes in red within the typical time to completion of the program. Again, pointing to the improved completion timeframe for learners. Although a student could take 22 weeks to complete the certificate, there are several options to complete in as soon as 16 weeks.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Below is a subset of learning outcomes from our MHRIR degree program. These outcomes are specific to the Human Resources Management Certificate. LER utilized HRCI's Human Resources Body of Knowledge to inform our learning objectives and has recently (January 2022) received "exceeds expectations" score from the Office of the Provost Learning Outcomes Assessment of its MHRIR degree program.

1. Students will apply Business Management and Strategy to shape immediate and long-term HR activities, practices, and policies. Students will critically examine the complex link between strategy and business practices, understand and apply workforce metrics to drive decision-making, and apply a strategic lens to international human resources.
2. Students will lead Employee and Labor Relations by managing workforce relationships, developing inclusive and respectful company culture, and building communication systems.
3. To support Human Resource Development, students will support organizational priorities by managing employee performance through evaluating gaps between employee performance and the desired state, building programs to address these gaps, and designing strategies for motivating employees.
4. Students will be able to use critical thinking and problem-solving skills to act strategically when making decisions in business and in life.
5. Students will be effective leaders of change and apply interpersonal skills to work well in cross-functional teams.

We have been assessing the learning outcomes through two different strategies. One being ICES evaluations at the end of the course to assess their overall course experience. We also do a sperate assessment that examines if program expectations were met in terms of content and to determine areas of improvement. This is often sent to students within two months of completing the program.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

The learning outcomes are assessed at the completion of each course through ICES evaluations. They are assessed again upon completion of the certificate program through a department specific evaluation distributed through Qualtrics.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Letter grades are provided for each assignment as well as at the completion of each course.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

LER monitors course ratings each semester and connects with instructors that score lower than satisfactory on the evals. Aside from discussing formal course evaluations, LER student advisors also synthesize feedback provided informally through appointments to instructors as a way to continuously improve the course.

Program Description and Requirements Attach Documents

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/PublicAdminRules2017.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.

Revised programs Side by Side_Human Resource Management.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

Certificate Program Website: https://ler.illinois.edu/online-human-resources-certificate-program/

School Faculty: https://ler.illinois.edu/faculty/

Program Contact: Eden Haycraft Smothers

Email: ehaycra@illinois.edu

Program Overview:
The online certificate program consists of a variety of tracks and each track has three courses (12 credit hours total, four credit hours per course). Each course in the certificate program is either six or eight weeks long. You can choose to engage in one or more certificate program tracks. Once you have received one or more certificates, and decide you are interested in the full Master of Human Resources and Industrial Relations (MHRIR) program, you are able to apply for the online master's program.

Each certificate program track takes between 5 ~~7~~ to 10 months to complete.

How do I know if the certificate program is for me?

Are you….

-working in HR with no HR background?

-employed by an organization that provides tuition reimbursement, but the reimbursement amount isn't equivalent to a full degree program?

-seeking to gain more knowledge in HR but either unable to or prefer not to attend graduate school?

-currently in HR and seeking to freshen-up your knowledge? This group may include, for example, individuals who started in HR, left HR for different reasons or even left the labor force.

-seeking to enter the HR field or change positions within your organization to HR, but do not want to commit/can't commit to a full degree?

-an individual who wants to know more about HR in general prior to embarking on a full degree program?

If you answered 'yes' to one or more of these questions, then this certificate program may be the perfect fit for you.

What is required to apply for one of these certificate programs?

Please note all applicants must have received a bachelor's degree prior to starting one of our certificate program tracks.

-Application
-Resume
-Official Transcripts
-English Proficiency Exam for international students

Human Resources Management Certificate Overview: ~~-Phone Interview – Contacted after application is reviewed for a phone conversation regarding interest in the certificate program.~~
~~Human Resources Management CertificateOverview:~~Topics include managing and motivating employees effectively as well as the core skills needed within HR regarding change management.

Statement for Programs of Study Catalog

Students who have successfully completed the *Human Resource Management* certificate may use the certificate to satisfy the following degree requirements, provided they apply and are admitted to the degree program:
4 to 8 hours of ~~hours of~~ core and/or 4 to 8 hours of ~~and 8 hours of~~ elective coursework requirements of the MHRIR degree program (12 hours total). ~~total)~~ Certificate can fulfill ~~fulfills~~ the Human Resource ~~HR~~ Management and Organization Behavior distribution requirement as well as the International Human Resource Management distribution requirement.

Course List

~~Code~~	~~Title~~	~~Hours~~
~~LER 597~~	~~Employee Motivation & Perfmnce~~	~~4~~
~~or LER 534~~	~~Leadership and Employee Engagement~~	
~~LER 532~~	~~Successful Change Management for HR Professionals~~	~~4~~
~~LER 533~~	~~Fundamentals of Business Management~~	~~4~~

Students in the certificate program will choose three out of the six course options listed below. Students will need to complete 12 credit hours total to be awarded a certificate. The courses do not need to be taken in any particular order.

Course List

Code	Title	Hours
LER 597	Employee Motivation & Perfmnce	4
LER 534	Leadership and Employee Engagement	4
LER 532	Successful Change Management for HR Professionals	4
LER 533	Fundamentals of Business Management	4
LER 595	Managing Diversity Globally	4
LER 537	Employee Stress, Well-Being, & Safety	4
Total Hours		12

Corresponding Degree

GCRT Graduate Certificate

Program Features

Academic Level	Graduate
Does this major have transcripted concentrations?	No

What is the typical time to completion of this program?

22 weeks ~~6 months~~

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

12

What is the required GPA?	2.75
CIP Code	521001 - Human Resources Management/ Personnel Administration, General.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is available:

Online Only - The entire program is delivered online, students are not required to come to campus.

Describe the use of this delivery method:

The program is hybrid synchronous and asynchronous. Each course has a required, once a week two-hour live Zoom session where students gather with their peers and the instructor. These live zoom sessions include lectures, activities, students' presentations, and other interactions involving the course content.

Admission Requirements

Desired Effective Admissions Term	Spring 2025

Is this revision a change to the admission status of the program?

No

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.

To apply to the certificate program within LER, prospective students must submit an updated resume and official transcripts. In order to qualify for the certificate, one must have completed an undergraduate degree. Some certificates require an undergraduate statistics course in order to proceed through the program. ~~Following the application an interview is setup with the Associate Director of Graduate Online Programs to discuss program fit and the applicant'sbackground.An admissions decision is made after the interview with thecandidate.~~If a certificate student wants to pursue the master's degree following the completion of a certificate, they must then submit an application for the MHRIR program. That application would then require a personal statement along with three letters of recommendation. Certificate students can ask up to two of their instructors from the LER program to write letters for their master's application.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

The revision will increase enrollment and campus graduate certificates awarded by allowing for more course options which will provide more opportunities to start the program at various times throughout the year and flexibility regarding how soon the certificate can be completed.

Estimated Annual Number of Degrees Awarded

Year One Estimate	3-7	5th Year Estimate (or when fully implemented)	8

What is the matriculation term for this program? Spring/Summer/Other

Please give an explanation of why fall matriculation is not applicable:

Prospective certificate students can start the program in Fall, Spring or Summer semesters.

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?

All certificate courses ~~students~~ are a part of the master's program, so no additional costs will be added through faculty or advisors until the program grows substantially in which case the tuition dollars will cover program expenses since our online programs are self-supporting.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

Letter of Impact_Library.pdf

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)

MHRIR online credit hour rate

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

Yes

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

The additional courses added to the certificate program are already a part of the master's curriculum and will not come with additional faculty or departmental costs. LER his not concerned about the class sizes growing too large from this adjustment.

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.

The text provided below is the response from LER's library specialist, Mandi Arlain. The full conversation can be found in the attachments under "Letter of Impact_Library."

"I have reviewed the information shared for the four certificate tracks offered through LER. As previously noted, given the program's current structure and enrollment numbers, the impact on library resources is expected to be minimal.

The library already has a solid collection in most areas covered by the program's course descriptions, and as a result of receiving this CIM-P proposal, I will now also keep an eye out for current and upcoming publications on these topics when purchasing for our collection. In addition to the resources found through the library's catalog, several library databases also support these certificates, including but not limited to: Human Resources Abstracts, Bloomberg Law and Nexis Uni. Students will also have access to an extensive range of related online journals, current newspapers, and video/media content.

It's also worth mentioning that professors often benefit from collaborating with us to create a curated list of relevant library resources tailored to their specific courses in the form of a course-specific LibGuide. At the very least, they should review our collection or share their reading lists with us in advance to ensure the library has access to the necessary course materials when needed.

Thanks again for contacting the library and we're here to assist with any additional questions or concerns you may have."

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 1123 10-14-2024.docx FW_ Submission Confirmation_ Screening Form for Changes to Existing Programs.pdf
Banner/Codebook Name	GCRT:HR Mgmt ONL-UIUC
Program Code:	1PKS5715GCRU

Minor Code	Conc Code	Degree Code	GCRT	Major Code
5715				

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	12/27/2022
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (10/14/24 4:44 pm):** U Program Review comments attached in DMI Documentation section. **Allison McKinney (agrindly) (11/06/24 9:45 am):** Administratively approved.

Key: 1123

Date Submitted: 09/30/24 3:59 pm

Viewing: 1PKS6124GCRU : Human Resources Data Analytics, GCRT (online)

Last approved: 06/12/24 11:37 am

Last edit: 11/08/24 9:58 am

Changes proposed by: Eden Haycraft Smothers

Catalog Pages Using this Program	Human Resources Data Analytics, CERT

Proposal Type:

In Workflow

1. **U Program Review**
2. **1568 Head**
3. **LG Dean**
4. **University Librarian**
5. **Grad_College**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DOE
15. DMI

Approval Path

1. 10/15/24 9:25 am Donna Butler (dbutler): Approved for U Program Review
2. 10/31/24 1:49 pm Becky Barker (ebarker): Approved for 1568 Head
3. 10/31/24 1:50 pm Lynne Hoveln (lhoveln): Approved for LG Dean
4. 11/05/24 11:30 am Claire Stewart (clairest): Approved for University Librarian
5. 11/06/24 9:45 am

Allison McKinney (agrindly): Approved for Grad_College
6. 11/06/24 10:10 am
Suzanne Lee (suzannel): Approved for COTE Programs
7. 11/07/24 10:06 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Jun 7, 2022 by Eden Haycraft Smothers (ehaycra)
2. Sep 22, 2022 by Mary Lowry (lowry)
3. Dec 9, 2022 by Becky Barker (ebarker)
4. Jun 12, 2024 by Emily Stuby (eastuby)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Human Resources Data Analytics, GCRT (online)
Diploma Title	Graduate Certificate in Human Resources Data Analytics
Sponsor College	Labor & Empl. Relations, School of
Sponsor Department	Labor & Employment Relations

Sponsor Name	Eden Haycraft Smothers ~~Becky Barker~~
Sponsor Email	ehaycra@illinois.edu ~~ebarker@illinois.edu~~
College Contact	Eden Haycraft Smothers ~~Becky Barker~~
College Contact Email	ehaycra@illinois.edu ~~ebarker@illinois.edu~~
College Budget Officer	Wyatt Martin
College Budget Officer Email	wjmartin@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.

Eden Haycraft (ehaycra@illinois.edu), Becky Barker (ebarker@illinois.edu), Amit Kramer (kram@illinois.edu)

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Graduate Certificate in Human Resources Data Analytics in the School of Labor and Employment Relations and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	Below are the changes outlined in the revision. 1. Changing the requirement from 3 required courses to be a choice from list from 4 courses where students select 3 courses. 2. Adding LER 568 to the list of course choices. 3. Adding an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in

the master’s if an individual decides to apply for the master’s following a certificate.
4. Update to admissions requirements as we no longer have an ‘interview’ with applicants.
5. Update on how the learning objectives are assessed.
6. Update to matriculation will be noted on revision.
7. Length to completion has been updated to weeks with a shorter completion timeframe.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

Below outlines the justification for each of the outlined changes above.

1. Expanding course options will enable students to complete each certificate more quickly, resulting in a shorter overall program duration. This adjustment will help align our certificates with those offered by competing institutions. Currently, completing this certificate takes two to three semesters, with three semesters often being too lengthy. With the new course choices, students could finish the certificate in just one semester, benefiting those who need to expedite their education. While the certificate programs qualify for financial aid, students must enroll in at least two courses per semester. By providing more course options, we can enhance financial aid opportunities for students. One of the main challenges LER faces when speaking with prospective certificate students is the duration of completion. This shorter completion time was also identified as an area for improvement when we had our programs evaluated by Hanover Research, which highlighted opportunities to make our programs more appealing.
2. Additional courses will allow students to pursue more than one certificate even if the certificates have an overlapping course. Currently, students are unable to pursue the Human Resources Data Analytics and Compensation Best Practices certificates as they both require LER 545 Economics of Human Resources. The additional course added within the revision (LER 568) was identified by faculty as a course that could assist in building upon data analytics.
3. The Program of Study table needed revisions to accurately reflect the course additions and which master's program requirements could be fulfilled by this certificate offering in case individuals want to explore the master's program in the future. The credit hours required to complete the certificate remains unchanged (12 total credit hours).
4. LER realized that instead of using the word 'interview' we would conduct short informal info sessions with each applicant that will allow the applicant to ask questions regarding the certificate, course offerings, and what they can expect from engaging in the certificate. When listing this as an 'interview' we felt it was providing a barrier to entry that LER wants to avoid. A new statement is not needed as the informal info session is not a requirement.
5. There were new questions asked regarding assessment of learning objectives that we answered on the revision.
6. There are noted changes in red within the matriculation term. The content remains unchanged, but edits were highlighted.
7. There are noted changes in red within the typical time to completion of the program. Again, pointing to the improved completion timeframe for learners. Although a student could take 22 weeks to complete the certificate, there are several options to complete in as soon as 16 weeks.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Below is a subset of learning outcomes from our MHRIR degree program. These outcomes are specific to the Human Resources Data Analytics Certificate. LER utilized HRCI's Human Resources Body of Knowledge to inform our learning objectives and has recently (January 2022) received "exceeds expectations" score from the Office of the Provost Learning Outcomes Assessment of its MHRIR degree program.

1. Students will apply Business Management and Strategy to shape immediate and long-term HR activities, practices, and policies. Students will critically examine the complex link between strategy and business practices, understand and apply workforce metrics to drive decision-making, and apply a strategic lens to international human resources.
2. Students will drive productivity outcomes, use job and company data to predict the success of new hires, and align human capital requirements to achieve business goals to support Workforce Planning and Development within an organization's HR operation.
3. Students will be able to use critical thinking and problem-solving skills to act strategically when making decisions in business and in life.
4. Students will produce persuasive and impactful written work and verbal presentations for academic and business audiences.

We have been assessing the learning outcomes through two different strategies. One being ICES evaluations at the end of the course to assess their overall course experience. We also do a sperate assessment that examines if program expectations were met in terms of content and to determine areas of improvement. This is often sent to students within two months of completing the program.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

The learning outcomes are assessed at the completion of each course through ICES evaluations. They are assessed again upon completion of the certificate program through a department specific evaluation distributed through Qualtrics.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Letter grades are provided for each assignment as well as at the completion of each course.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

LER monitors course ratings each semester and connects with instructors that score lower than satisfactory on the evals. Aside from discussing formal course evaluations, LER student advisors also synthesize feedback provided informally through appointments to instructors as a way to continuously improve the course.

Program Description and Requirements Attach Documents

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/PublicAdminRules2017.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.

Revised programs Side by Side_Human Resources Data Analytics.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

Certificate Program Website: https://ler.illinois.edu/online-human-resources-certificate-program/

School Faculty: https://ler.illinois.edu/faculty/

Program Contact: Eden Haycraft Smothers

Email: ehaycra@illinois.edu

Program Overview:
The online certificate program consists of a variety of tracks and each track has three courses (12 credit hours total, four credit hours per course). Each course in the certificate program is either six or eight weeks long. You can choose to engage in one or more certificate program tracks. Once you have received one or more certificates, and decide you are interested in the full Master of Human Resources and Industrial Relations (MHRIR) program, you are able to apply for the online master's program.

Each certificate program track takes between 5 ~~7~~ to 10 months to complete.

How do I know if the certificate program is for me?

Are you….

-working in HR with no HR background?

-employed by an organization that provides tuition reimbursement, but the reimbursement amount isn't equivalent to a full degree program?

-seeking to gain more knowledge in HR but either unable to or prefer not to attend graduate school?

-currently in HR and seeking to freshen-up your knowledge? This group may include, for example, individuals who started in HR, left HR for different reasons or even left the labor force.

-seeking to enter the HR field or change positions within your organization to HR, but do not want to commit/can't commit to a full degree?

-an individual who wants to know more about HR in general prior to embarking on a full degree program?

If you answered 'yes' to one or more of these questions, then this certificate program may be the perfect fit for you.

What is required to apply for one of these certificate programs?

Please note all applicants must have received a bachelor's degree prior to starting one of our certificate program tracks.

-Application
-Resume
-Official Transcripts
-English Proficiency Exam for international students

Human Resources Data Analytics Certificate Overview: ~~-Phone Interview – Contacted after application is reviewed for a phone conversation regarding interest in the certificate program.~~
~~Human Resources Data Analytics CertificateOverview:~~Understand technical aspects of analysis in tools such as Excel including recruiting and staffing, hiring assessments, succession planning, compensation, non-exempt workforce/negotiations, and training measurement. Your learning experience will include case studies so you will be able to apply what you learn in real-world scenarios. Now, more than ever, making data-driven decisions is essential for HR professionals.

Prerequisite: Any elementary statistics course.

Statement for Programs of Study Catalog

Graduation Requirements
Minimum Cumulative GPA: 2.75
Minimum hours required for certificate completion: 12 hours
Students who have successfully completed the *Human Resources Data Analytics* certificate may use the certificate to satisfy the following degree requirements, provided they apply and are admitted to the degree program:
8 to 12 hours of core and/or ~~and~~ 4 hours of elective coursework requirements of the MHRIR degree program (12 total hours). ~~hours)~~ Certificate may fulfill ~~fulfills~~ the Labor Markets and Employment distribution requirement, Human Resource Management and Organizational Behavior distribution requirement, ~~requirement~~ as well as another required course (LER 593)
Students in the certificate program will choose three out of the four course options listed below. Students will need to complete 12 credit hours total to be awarded a certificate. The courses do not need to be taken in any particular order.

~~Course List~~

~~Code~~	~~Title~~	~~Hours~~
~~LER 531~~	~~Workforce Analytics~~	~~4~~
~~LER 545~~	~~Economics of Human Resources~~	~~4~~
~~LER 593~~	~~Quantitative Methods in LER~~	~~4~~
~~Total Hours~~		~~12~~

Course List

Code	Title	Hours
LER 531	Workforce Analytics	4
LER 545	Economics of Human Resources	4
LER 568	Firm Performance and HR	4
LER 593	Quantitative Methods in LER	4
Total Hours		12

-

Corresponding Degree	GCRT Graduate Certificate

Program Features

Academic Level	Graduate
Does this major have transcripted concentrations?	No

What is the typical time to completion of this program?

22 weeks ~~5 months~~

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

12

What is the required GPA?	2.75
CIP Code	521001 - Human Resources Management/ Personnel Administration, General.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is available:

Online Only - The entire program is delivered online, students are not required to come to campus.

Describe the use of this delivery method:

The program is hybrid synchronous and asynchronous. Each course has a required, once a week two-hour live Zoom session where students gather with their peers and the instructor. These live zoom sessions include lectures, activities, students' presentations, and other interactions involving the course content.

Admission Requirements

Desired Effective Admissions Term	Spring 2025

Is this revision a change to the admission status of the program?

No

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.

To apply to the certificate program within LER, prospective students must submit an updated resume and official transcripts. In order to qualify for the certificate, one must have completed an undergraduate degree. The HR Data Analytics certificate track requires ~~Some certificates require~~ an undergraduate statistics course in order to proceed through the program. ~~Following the application an interview is setup with the Associate Director of Graduate Online Programs to discuss program fit and the applicant'sbackground.An admissions decision is made after the interview with thecandidate.~~If a certificate student wants to pursue the master's degree following the completion of a certificate, they must then submit an application for the MHRIR program. That application would then require a personal statement along with three letters of recommendation. Certificate students can ask up to two of their instructors from the LER program to write letters for their master's application.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

The revision will increase enrollment and campus graduate certificates awarded.

Estimated Annual Number of Degrees Awarded

Year One Estimate	2-7	5th Year Estimate (or when fully implemented)	7

What is the matriculation term for this program? Spring/Summer/Other

Please give an explanation of why fall matriculation is not applicable:

Prospective certificate students can start the program in Fall, Spring, ~~Spring~~ or Summer semesters.

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?

All certificate courses ~~students~~ are a part of the master's program, so no additional costs will be added through faculty or advisors until the program grows substantially in which case the tuition dollars will cover program expenses since our online programs are self-supporting.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

Letter of Impact_Library.pdf

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)

MHRIR online credit hour rate

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

Yes

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

The additional courses added to the certificate program are already a part of the master's curriculum and will not come with additional faculty or departmental costs. LER his not concerned about the class sizes growing too large from this adjustment.

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.

The text provided below is the response from LER's library specialist, Mandi Arlain. The full conversation can be found in the attachments under "Letter of Impact_Library".

"I have reviewed the information shared for the four certificate tracks offered through LER. As previously noted, given the program's current structure and enrollment numbers, the impact on library resources is expected to be minimal.

The library already has a solid collection in most areas covered by the program's course descriptions, and as a result of receiving this CIM-P proposal, I will now also keep an eye out for current and upcoming publications on these topics when purchasing for our collection. In addition to the resources found through the library's catalog, several library databases also support these certificates, including but not limited to: Human Resources Abstracts, Bloomberg Law and Nexis Uni. Students will also have access to an extensive range of related online journals, current newspapers, and video/media content.

It's also worth mentioning that professors often benefit from collaborating with us to create a curated list of relevant library resources tailored to their specific courses in the form of a course-specific LibGuide. At the very least, they should review our collection or share their reading lists with us in advance to ensure the library has access to the necessary course materials when needed.

Thanks again for contacting the library and we're here to assist with any additional questions or concerns you may have."

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 1126 10-14-2024.docx FW_ Submission Confirmation_ Screening Form for Changes to Existing Programs.pdf
Banner/Codebook Name	GCRT:HR DataAnalytics ONL-UIUC
Program Code:	1PKS6124GCRU

Minor Code	Conc Code	Degree Code	GCRT	Major Code
6124				

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (10/14/24 4:44 pm):** U Program Review comments attached in DMI Documentation section. **Allison McKinney (agrindly) (11/06/24 9:45 am):** Administratively approved.

Key: 1126

Date Submitted: 09/30/24 3:58 pm

Viewing: **1PKS6125GCRU : Fundamentals of Human Resources, GCRT (online)**

Last approved: 06/12/24 11:40 am

Last edit: 11/08/24 9:58 am

Changes proposed by: Eden Haycraft Smothers

Catalog Pages Using this Program	Fundamentals of Human Resources, CERT

Proposal Type:

In Workflow

1. **U Program Review**
2. **1568 Head**
3. **LG Dean**
4. **University Librarian**
5. **Grad_College**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DOE
15. DMI

Approval Path

1. 10/15/24 9:24 am Donna Butler (dbutler): Approved for U Program Review
2. 10/31/24 1:49 pm Becky Barker (ebarker): Approved for 1568 Head
3. 10/31/24 1:50 pm Lynne Hoveln (lhoveln): Approved for LG Dean
4. 11/05/24 11:31 am Claire Stewart (clairest): Approved for University Librarian
5. 11/06/24 9:46 am

Allison McKinney (agrindly): Approved for Grad_College
6. 11/06/24 10:10 am
Suzanne Lee (suzannel): Approved for COTE Programs
7. 11/07/24 10:06 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Jun 7, 2022 by Eden Haycraft Smothers (ehaycra)
2. Sep 22, 2022 by Mary Lowry (lowry)
3. Jun 12, 2024 by Emily Stuby (eastuby)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Fundamentals of Human Resources, GCRT (online)
Diploma Title	Graduate Certificate in Fundamentals of Human Resources
Sponsor College	Labor & Empl. Relations, School of
Sponsor Department	Labor & Employment Relations
Sponsor Name	Eden Haycraft Smothers
Sponsor Email	ehaycra@illinois.edu

College Contact	Eden Haycraft Smothers	College Contact Email	ehaycra@illinois.edu
College Budget Officer	Wyatt Martin		
College Budget Officer Email	wjmartin@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.

Eden Haycraft (ehaycra@illinois.edu), Becky Barker (ebarker@illinois.edu), Amit Kramer (kram@illinois.edu)

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Graduate Certificate in Fundamentals of Human Resources in the School of Labor and Employment Relations and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	Below are the changes outlined in the revision. 1. Changing the requirement from 3 required courses, where one had an alternative course option that students must take to be a choice from list from 6 courses where students select 3 courses. 2. Adding LER 539 and LER 522 to the list of course choices. 3. Adding an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate. 4. Update to admissions requirements as we no longer have an 'interview' with applicants.

5. Update on how the learning objectives are assessed.
6. Formatting changes will be noted in the learning outcomes section, but the content of the learning outcomes will remain unchanged. There were a few items that needed to be numbered and a few grammatical errors.
7. Update to matriculation as the revisions allow individuals more options for starting and completing the program.
8. Length to completion has been updated to weeks with a shorter completion timeframe.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

Below outlines the justification for each of the outlined changes above.

1. Expanding course options will enable students to complete each certificate more quickly, resulting in a shorter overall program duration. This adjustment will help align our certificates with those offered by competing institutions. Currently, completing this certificate can take two to three semesters, with three semesters often being too lengthy. With the new course choices, students could finish the certificate in just one semester, benefiting those who need to expedite their education. While the certificate programs qualify for financial aid, students must enroll in at least two courses per semester. By providing more course options, we can enhance financial aid opportunities for students. One of the main challenges LER faces when speaking with prospective certificate students is the duration of completion. This shorter completion time was also identified as an area for improvement when we had our programs evaluated by Hanover Research, which highlighted opportunities to make our programs more appealing.
2. Additional courses will allow students to pursue more than one certificate even if the certificates have an overlapping course. Currently, students are unable to pursue the Fundamentals of Human Resources and Compensation Best Practices certificates as they both require LER 561 Compensation Systems. The two additional courses added within the revision (LER 539 and LER 522) were identified by faculty as courses that could assist in building a foundation for human resources.
3. The Program of Study table needed revisions to accurately reflect the course additions and which master's program requirements could be fulfilled by this certificate offering in case individuals want to explore the master's program in the future. The credit hours required to complete the certificate remains unchanged (12 total credit hours).
4. LER realized that instead of using the word 'interview' we would conduct short informal info sessions with each applicant that will allow the applicant to ask questions regarding the certificate, course offerings, and what they can expect from engaging in the certificate. When listing this as an 'interview' we felt it was providing a barrier to entry that LER wants to avoid. A new statement is not needed as the informal info session is not a requirement.
5. There were new questions asked regarding assessment of learning objectives that we answered on the revision.
6. There are noted changes in red within the learning outcomes, but they are due to formatting and grammatical error changes. Wanted to emphasize there aren't changes to the content of the outcomes.
7. There are noted changes in red within the matriculation term. Previously a student could only begin the Fundamentals of Human Resources certificate in fall or spring whereas now students could also engage in the certificate starting in the summer term. Emphasizing the flexibility for starting and completing the certificate will be improved by revisions.
8. There are noted changes in red within the typical time to completion of the program. Again, pointing to the improved completion timeframe for learners. Although a student could take 22 weeks to complete the certificate, there are several options to complete in as soon as 16 weeks.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Below is a subset of learning outcomes from our MHRIR degree program. These outcomes are specific to the Fundamentals of Human Resources Certificate. LER utilized HRCI's Human Resources Body of Knowledge to inform our learning objectives and has recently (January 2022) received "exceeds expectations" score from the Office of the Provost Learning Outcomes Assessment of its MHRIR degree program.

1. Students will lead Employee and Labor Relations by managing workforce relationships, developing inclusive and respectful company culture, and building communication systems.
2. Students will understand the structural elements of compensation system design and evaluate an organization's Compensation and Benefits structure relative to market forces, union agreements, and legal requirements.
3. Students will be able to integrate, synthesize, and apply knowledge of ethical dilemmas and solutions in Human Resources.
~~Students will apply strategies for realizing the benefits of diversity and inclusion and employ practices that contribute to healthy, safe, and secure workplaces, communities, and societies as part of the organization's corporate socialresponsibility.~~4. Students will apply strategies for realizing the benefits of diversity and inclusion and employ practices that contribute to healthy, safe, and secure workplaces, communities, and societies as part of the organization's corporate social responsibility.
~~Students will be able to use critical thinking and problem-solving skills to act strategically when making decisions in business and inlife.~~5. Students will be able to use critical thinking and problem-solving skills to act strategically when making decisions in business and in life.
6. Students will be effective leaders of change and apply interpersonal skills to work well in cross-functional teams.

We have been assessing the learning outcomes through two different strategies. One being ICES evaluations at the end of each ~~the~~ course to assess their overall course experience. We also do a separate ~~sperate~~ assessment that examines if program expectations were met in terms of content and to determine areas of improvement. This is often sent to students within two months of completing the program.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

The learning outcomes are assessed at the completion of each course through ICES evaluations. They are assessed again upon completion of the certificate program through a department specific evaluation distributed through Qualtrics.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Letter grades are provided for each assignment as well as at the completion of each course.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

LER monitors course ratings each semester and connects with instructors that score lower than satisfactory on the evals. Aside from discussing formal course evaluations, LER student advisors also synthesize feedback provided informally through appointments to instructors as a way to continuously improve the course.

Program Description and Requirements

Attach Documents

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/PublicAdminRules2017.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.

Revised programs: Side by Side_Fundamentals of Human Resources.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

Certificate Program Website: https://ler.illinois.edu/online-human-resources-certificate-program/

School Faculty: https://ler.illinois.edu/faculty/

Program Contact: Eden Haycraft Smothers

Email: ehaycra@illinois.edu

Program Overview:
The online certificate program consists of a variety of tracks and each track has three courses (12 credit hours total, four credit hours per course). Each course in the certificate program is either six or eight weeks long. You can choose to engage in one or more certificate program tracks. Once you have received one or more certificates, and decide you are interested in the full Master of Human Resources and Industrial Relations (MHRIR) program, you are able to apply for the online master's program.

Each certificate program track takes between 5 ~~7~~ to 10 months to complete.

How do I know if the certificate program is for me?

Are you….

-working in HR with no HR background?

-employed by an organization that provides tuition reimbursement, but the reimbursement amount isn't equivalent to a full degree program?

-seeking to gain more knowledge in HR but either unable to or prefer not to attend graduate school?

-currently in HR and seeking to freshen-up your knowledge? This group may include, for example, individuals who started in HR, left HR for different reasons or even left the labor force.

-seeking to enter the HR field or change positions within your organization to HR, but do not want to commit/can't commit to a full degree?

-an individual who wants to know more about HR in general prior to embarking on a full degree program?

If you answered 'yes' to one or more of these questions, then this certificate program may be the perfect fit for you.

What is required to apply for one of these certificate programs?

Please note all applicants must have received a bachelor's degree prior to starting one of our certificate program tracks.

-Application
-Resume
-Official Transcripts
-English Proficiency Exam for international students

Fundamentals of Human Resources Certificate Overview: ~~-Phone Interview – Contacted after application is reviewed for a phone conversation regarding interest in the certificate program.~~
~~Fundamentals of Human Resources CertificateOverview:~~Obtain a framework for the analysis of employment relationships including human resources management strategies and practices. Learn about the theoretical and practical issues surrounding the design of effective compensation systems and the practice of identifying and recruiting a diverse workforce.

Statement for Programs of Study Catalog

Graduation Requirements
Minimum Cumulative GPA: 2.75
Minimum hours required for certificate completion: 12 hours
~~2.75 Minimum hours required for certificate completion: 12 hours~~
Students who have successfully completed the *Fundamentals of Human Resources* certificate may use the certificate to satisfy the following degree requirements, provided they apply and are admitted to the degree program:
8 to 12 hours of core and/or 4+ ~~and 4~~ hours of elective coursework requirements of the MHRIR degree program (12 hours total). ~~total)~~ Certificate may fulfill ~~fulfills~~ the International Human Resource ~~international HR~~ Management and Human Resource Management and Organization Behavior distribution requirements ~~requirement~~ as well as another required course (LER 591)

.

Course List

~~Code~~	~~Title~~	~~Hours~~
~~LER 591~~	~~Employment Relations Systems~~	~~4~~
~~LER 561~~	~~Compensation Systems~~	~~4~~
~~LER 595~~	~~Managing Diversity Globally~~	~~4~~
~~or LER 566~~	~~International HR Management~~	
~~Total Hours~~		~~12~~

Students in the certificate program will choose three out of the six course options listed below. Students will need to complete 12 credit hours total to be awarded a certificate. The courses do not need to be taken in any particular order.

Course List

Code	Title	Hours
LER 591	Employment Relations Systems	4
LER 561	Compensation Systems	4
LER 595	Managing Diversity Globally	4
LER 566	International HR Management	4
LER 539	Talent Management	4
LER 522	Employment Law for HR Managers: Discrimination, Compensation, and Privacy	4

Code	Title	Hours
Total Hours		12

Corresponding Degree: GCRT Graduate Certificate

Program Features

Academic Level: Graduate

Does this major have transcripted concentrations?: No

What is the typical time to completion of this program?

22 weeks ~~7 months~~

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

12

What is the required GPA?: 2.75

CIP Code: 521005 - Human Resources Development.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is available:

Online Only - The entire program is delivered online, students are not required to come to campus.

Describe the use of this delivery method:

The program is hybrid synchronous and asynchronous. Each course has a required, once a week two-hour live Zoom session where students gather with their peers and the instructor. These live zoom sessions include lectures, activities, students' presentations, and other interactions involving the course content.

Admission Requirements

Desired Effective Admissions Term: Spring 2025

Is this revision a change to the admission status of the program?

No

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.

To apply to the certificate program within LER, prospective students must submit an updated resume and official transcripts. In order to qualify for the certificate, one must have completed an undergraduate degree. Some certificates require an undergraduate statistics course in order to proceed through the program. ~~Following the application an interview is setup with the Associate Director of Graduate Online Programs to discuss program fit and the applicant'sbackground.An admissions decision is made after the interview with thecandidate.~~If a certificate student wants to pursue the master's degree following the completion of a certificate, they must then submit an application for the MHRIR program. That application would then require a personal statement along with three letters of recommendation. Certificate students can ask up to two of their instructors from the LER program to write letters for their master's application.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

The revision will increase enrollment and campus graduate certificates awarded by allowing for more course options which will provide more opportunities to start the program at various times throughout the year and flexibility regarding how soon the certificate can be completed.

Estimated Annual Number of Degrees Awarded

Year One Estimate	2-7	5th Year Estimate (or when fully implemented)	7

What is the matriculation term for this program? Spring/Summer/Other

Please give an explanation of why fall matriculation is not applicable:

Prospective certificate students can start the program in Fall, Spring, ~~Fall~~ or Summer ~~Spring~~ semesters.

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?

All certificate courses ~~students~~ are a part of the master's program, so no additional costs will be added through faculty or advisors until the program grows substantially in which case the tuition dollars will cover program expenses since our online programs are self-supporting.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

Letter of Impact_Library.pdf

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)

MHRIR online credit hour rate

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

Yes

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

The additional courses added to the certificate program are already a part of the master's curriculum and will not come with additional faculty or departmental costs. LER his not concerned about the class sizes growing too large from this adjustment.

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.

The text provided below is the response from Mandi Arlain, LER librarian specialist:

I have reviewed the information shared for the four certificate tracks offered through LER. As previously noted, given the program's current structure and enrollment numbers, the impact on library resources is expected to be minimal.

The library already has a solid collection in most areas covered by the program's course descriptions, and as a result of receiving this CIM-P proposal, I will now also keep an eye out for current and upcoming publications on these topics when purchasing for our collection. In addition to the resources found through the library's catalog, several library databases also support these certificates, including but not limited to: Human Resources Abstracts, Bloomberg Law and Nexis Uni. Students will also have access to an extensive range of related online journals, current newspapers, and video/media content.

It’s also worth mentioning that professors often benefit from collaborating with us to create a curated list of relevant library resources tailored to their specific courses in the form of a course-specific LibGuide. At the very least, they should review our collection or share their reading lists with us in advance to ensure the library has access to the necessary course materials when needed.

Thanks again for contacting the library and we're here to assist with any additional questions or concerns you may have.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 1119 10-14-24.docx FW_ Submission Confirmation_ Screening Form for Changes to Existing Programs.pdf
Banner/Codebook Name	GCRT:Fundamental HR ONL-UIUC
Program Code:	1PKS6125GCRU

Minor	Conc	Degree	GCRT	Major

Code	Code	Code	Code	6125

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (10/14/24 4:44 pm):** U Program Review comments attached in DMI Documentation section. **Allison McKinney (agrindly) (11/06/24 9:46 am):** Administratively approved.

Key: 1119

Date Submitted: 08/02/24 4:44 pm

Viewing: 10KS0155MUP & 10KS0247MARC(or 0248) : JP: Architecture, MARCH & Urban Planning, MUP

Last approved: 05/08/24 8:51 am

Last edit: 11/14/24 10:34 am

Changes proposed by: Nicole Turner

Catalog Pages Using this Program	Architecture, MARCH & Urban Planning, MUP

Proposal Type:

In Workflow

1. **U Program Review**
2. **1733 Committee Chair**
3. **1733 Head**
4. **1767 Committee Chair**
5. **1767 Head**
6. **KR Dean**
7. **University Librarian**
8. **Grad_College**
9. **COTE Programs**
10. **Provost**
11. **Senate EPC**
12. Senate
13. U Senate Conf
14. Board of Trustees
15. IBHE
16. HLC
17. DOE
18. DMI

Approval Path

1. 08/14/24 12:13 pm
   Donna Butler (dbutler):
   Approved for U Program Review
2. 08/14/24 12:16 pm
   Andrew Greenlee (agreen4):
   Approved for 1733 Committee Chair
3. 09/26/24 11:54 am
   Mark Doussard (mdouss1):
   Approved for 1733 Head

4. 10/11/24 12:26 pm
   Emelie Mies (emies): Approved for 1767 Committee Chair
5. 10/22/24 8:58 am
   Francisco Rodriguez-Suarez (paco70): Approved for 1767 Head
6. 10/22/24 8:59 am
   Nicole Turner (nicturn): Approved for KR Dean
7. 10/22/24 10:34 am
   Claire Stewart (clairest): Approved for University Librarian
8. 11/13/24 3:51 pm
   Allison McKinney (agrindly): Approved for Grad_College
9. 11/13/24 4:05 pm
   Suzanne Lee (suzannel): Approved for COTE Programs
10. 11/13/24 4:49 pm
    Brooke Newell (bsnewell): Approved for Provost

History

1. Mar 20, 2023 by Mary Lowry (lowry)
2. May 8, 2024 by Nicole Turner (nicturn)

Joint Program (ex. Master of Public Health & PhD. in Community Health)

This proposal is for a:

Revision

Administration Details

Official Program Name	JP: Architecture, MARCH & Urban Planning, MUP
Diploma Title	Master of Architecture; Master of Urban Planning
Sponsor College	Fine & Applied Arts
Sponsor Department	Urban & Regional Planning
Sponsor Name	Marc Doussard
Sponsor Email	mdouss1@illinois.edu
College Contact	Nicole Turner
College Contact Email	nicturn@illinois.edu
College Budget Officer	Greg Anderson
College Budget Officer Email	gnanders@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.

KR Dean

Does this program have inter-departmental administration?

Yes

Interdisciplinary Colleges and Departments (list other colleges/departments which are involved other than the sponsor chose above)

Please describe the oversight/governance for this program, e.g., traditional departmental/college governance. Inclusion of/roles of elected faculty committees? Inclusion of/roles of any advisory committees.

College	Fine & Applied Arts
Department	Architecture

Is there an additional department involved in governance?

No

Proposal Title

Effective Catalog Term: Fall 2024

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Joint Program in the Master of Architecture in Architecture and Master of Urban Planning in Urban Planning in the College of Fine and Applied Arts and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.: 1. Revision to POS to clarify joint program requirements and overlap. 2. Change in GPA to 3.0 for the joint program in Program Features section.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

In the last program revision, the complete requirements for each program were entered into the Program of Study. We need to clarify the overlap and document the requirements of the joint degree.
A. This was completed by reducing the MUP recommended concentration/electives from 32 to 2 (-30 hours), which reduces the 64 hour program to 32 hours.
B. For the MARCH 2 Year track, this was completed by adding a statement "For the joint program, the 32 hours of MArch courses must be selected in consultation with an advisor from the following:" which designates that even though the total credit hours for the program still add up to 64 that the 32 required hours can be selected through consultation with advisor.
C. For the MARCH 3 year track, no changes were needed because the total listed is 54 hours, which is the minimum required in that program since students are entering the program with only a four-year baccalaureate in architectural studies.
D. Additionally, in the 'Other Requirements' table this statement is removed: "Up to 8 hours of UP coursework may be applied to the MARCH degree at the department's discretion." because the clarification for how the MARCH hours are earned is provided in the POS table.
E. Headers were updated to add"Requirements for the Joint Program" for the MUP and MARCH and "for the Joint Program" header was added to the Total Minimum Hours POS.

2. GPA: The Grad Handbook says “Students enrolled in joint degree programs must meet the minimum GPA requirements of both degree programs in order to maintain satisfactory academic progress and to graduate.” According to the Grad College (8.1.23), "in practice is that joint students have to meet the GPA of the lower and the higher program. So, by default they need to meet the higher GPA. This is because the Grad College only has one GPA to look at to determine probation and graduation, and it is calculated using all the coursework the student has taken as a grad student." Because the MARCH requires a 2.75 and the MUP requires a 3.0, the joint program minimum GPA is a 3.0."

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

MASTER OF URBAN PLANNING

To be consistent with our accreditation requirements, we are using the Knowledge, Skills, and Values identified by the Planning Accreditation Board (PAB) as desired outcomes for planning education.

A.1. General planning knowledge:

Purpose and Meaning of Planning:
Planning Theory:
Planning Law:
Human Settlements and History of Planning:
The Future:
Global Dimensions of Planning:
A.2. Planning skills:

ResearchWritten, Oral and Graphic Communication:
Quantitative and Qualitative Methods:
Plan Creation and Implementation: is able to use Planning Process Methods:
Leadership:
A.3. Values and ethics

Professional Ethics and Responsibility:
Governance and Participation:
Sustainability and Environmental Quality:
Growth and Development: Social Justice:

MASTER OF ARCHITECTURE

1. Apply Specialized Knowledge

Engage in the practice of architecture in its many forms.
Employ design processes to understand, conceive, and create the many facets of built environments.
Utilize the interplay of form and space to create compelling experiences in the built environment.
Address environmental, social, political, cultural, and economic challenges through the application of design inquiry.
Apply advanced documentation, research, analysis, and design techniques to create innovative design solutions to pressing global challenges.

2. Apply Broad and Integrative Knowledge

Solve complex problems through the use of advanced design techniques.
Communicate complex ideas and concepts through a mastery of graphic, verbal, physical, and digital means.
Integrate community voices, cultural perspectives, and participatory practices into design solutions.
Employ an understanding of the complex intersections between design and environmental, social, economic, political, and cultural phenomena in historical and

contemporary contexts.
Use scholarly inquiry to answer questions in support of design solutions.
3. Utilize Differentiated Modes of Thinking

Understand, differentiate, and apply analytical, critical, and conceptual thinking to the design challenges of the twenty-first century.
Evaluate and apply theories of the built environment to understand their impacts on global ecology, human experience, and wellbeing.
Research and critically analyze historic and contemporary humanistic conditions related to the built environment in local, regional, and global geographies.
4. Collaborate Successfully

Foster teamwork and consensus decision-making.
Lead and steer complex processes to completion.
Value and integrate interdisciplinarity as well as diverse disciplinary approaches in the realm of design,
5. Contributing to Community, Civic, and Global Equity

Demonstrate the ability to make empathic and ethical decisions throughout the design process.
Work toward a more inclusive profession that welcomes practitioners of all genders, abilities, races, ethnicities, and ages.
Foreground social, environmental, and economic justice in the design of the environment to contribute to greater equity, diversity, and inclusion.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program
Description and
Requirements
Attach Documents

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/PublicAdminRules2017.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.

Revised programs MUP MARCH FA 24 side by side.docx
Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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

Master of Urban Planning in Urban Planning Requirements for the Joint Program

Course List

Code	Title	Hours
UP 501	Planning History and Theory	4
UP 503	Physical Planning	4
UP 504	Urban History and Theory	4
UP 505	Urban and Regional Analysis	2
UP 510	Plan Making	4
UP 511	Law and Planning	4
UP 590	Professional Internship (reduces the hours needed to graduate by 4)	0
Recommended concentration/electives		2
Non-Thesis Option		
UP 591	Capstone Seminar (enrollment required for 0 hours one term & 4 hours one term)	4
UP 598	Master's Project (min/max applied toward degree)	4
Thesis Option		
UP 591	Capstone Seminar (enrollment required for two semesters)	0
UP 599	Thesis Research (min/max applied toward degree)	8
Total Hours		32

Master of Architecture in Architecture Requirements for the Joint Program ~~Architecture~~
Architecture: 2 Year, MARCH

Course List

Code	Title	Hours
For the joint program, the 32 hours of MArch courses must be selected in consultation with an advisor from the following:		
ARCH 501	Architectural Practice	3
ARCH 517	Modern Architectural History, 1850-Present	3
ARCH 536	Planning and Design of Structural Systems	4
ARCH 537	Environmental Control Systems II	4
ARCH 538	Integrative Design of Buildings	4
Three graduate design studios		18
ARCH 575	Integrative Architecture Design Studio	6
ARCH 577	Theories of Architecture	4
Electives (Architecture graduate seminars and other approved courses)		16
Total Hours		32

Architecture: Track 3 MARCH

Course List

Code	Title	Hours
Thesis Option		
One course in architectural practice		
One core elective each from a select list of courses in architectural thought		
One core elective each from a select list of courses in professional practice		
Four studios including two semesters of comprehensive design		
One course in structural planning		
Students must also complete prerequisites, which are determined individually and do not count toward the required number of hours required		
ARCH 599	Thesis Research (min/max applied toward degree)	0
Thesis Option Total Hours		54
Non-Thesis Option		
One course in architectural practice		
One core elective each from a select list of courses in architectural thought		
One core elective each from a select list of courses in professional practice		
Four studios including two semesters of comprehensive design		
One course in structural planning		
Students must also complete prerequisites, which are determined individually and do not count toward the required number of hours required		
Non-Thesis Total Hours:		54

Other Requirements for Joint MARCH and MUP degrees

Grad Other Degree Requirements

Requirement	Description
Other requirements may overlap	
Enrollment in each program at least 2 semesters	
Minimum 500-level hours required overall for MARCH	12
Minimum 500-level hours required overall for MUP	16 (12 in UP)
Minimum hours within UP	32
~~Up to 8 hours of UP coursework may be applied to the MARCH degree at the department's discretion.~~	
If pursuing the MARCH thesis option, the thesis committee chair must be full-time in Architecture and one committee member must be from Urban Planning.	
MARCH Candidates must spend at least four semesters and earn at least half of the required graduate hours in residence	
Must earn a letter grade of C or better in all core MARCH courses.	
Minimum GPA	3.00

Course List

Code	Title	Hours
Total Minimum Hours for the Joint Program		
Candidates entering the program with a five-year Bachelor of Architecture degree		64
32 hours in Architecture and 32 hours in Urban Planning		
If admitted with full status, may complete the program in four semesters and a summer session		
Candidates entering the program with a four-year baccalaureate in architectural studies		86
54 hours in Architecture and 32 hours in Urban Planning		
If admitted with full status, may complete the program in six semesters and one summer session		

Program Relationships

Identify the existing programs to be joined:

Corresponding Program(s)
Architecture, MARCH
Urban Planning, MUP

Program Features

Academic Level: Graduate

What is the typical time to completion of this program?
3 years

What are the minimum Total Credit Hours required for this program?
64

What is the required GPA? 3.0 ~~2.75~~

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

Is this revision a change to the admission status of the program?

No

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 this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

No impact.

Estimated Annual Number of Degrees Awarded

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

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

Is this program requesting self-supporting status?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

No impact.

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.

Library collections, resources and services are sufficient to support this joint graduate program revision.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	NONE:MARCH/UrbanPlng(MUP)-UIUC (10KS8118NONE)
Program Code:	10KS0155MUP & 10KS0247MARC(or 0248)

Minor Code	Conc Code	Degree Code	Major Code

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	

DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (07/26/24 4:21 pm):** Rollback: Just one request. See email dated 7-26-24.

Key: 1084

Date Submitted: 10/29/24 5:34 pm

Viewing: 10KR5749BS : Sustainable Design, BS

Last approved: 04/22/24 1:40 pm

Last edit: 11/07/24 2:04 pm

Changes proposed by: Nicole Turner

Catalog Pages Using this Program	Sustainable Design, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1644 Head**
3. **KR Dean**
4. **University Librarian**
5. **COTE Programs**
6. **Provost**
7. **Senate EPC**
8. Senate
9. U Senate Conf
10. Board of Trustees
11. IBHE
12. HLC
13. DMI

Approval Path

1. 11/04/24 11:14 am
   Donna Butler (dbutler):
   Approved for U Program Review
2. 11/04/24 5:50 pm
   Nicole Turner (nicturn):
   Approved for 1644 Head
3. 11/04/24 5:51 pm
   Nicole Turner (nicturn):
   Approved for KR Dean
4. 11/05/24 10:57 am
   Claire Stewart (clairest):
   Approved for University Librarian
5. 11/05/24 11:18 am

Suzanne Lee (suzannel): Approved for COTE Programs
6. 11/07/24 10:06 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Sep 3, 2019 by Nicole Turner (nicturn)
2. Apr 2, 2021 by Nicole Turner (nicturn)
3. Apr 27, 2022 by Nicole Turner (nicturn)
4. Mar 15, 2023 by Nicole Turner (nicturn)
5. Apr 22, 2024 by Nicole Turner (nicturn)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Sustainable Design, BS	
Diploma Title	Bachelor of Science in Sustainable Design	
Sponsor College	Fine & Applied Arts	
Sponsor Department	Fine and Applied Arts	
Sponsor Name	Karin Hodgin Jones	
Sponsor Email	khodgin2@illinois.edu	
College Contact	Nicole Turner	College Contact

Email	nicturn@illinois.edu
College Budget Officer	Greg Anderson
College Budget Officer Email	gnanders@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.

KR Dean/nicturn@illinois.edu

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Fall 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Bachelor of Science in Sustainable Design in the College of Fine and Applied Arts

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	1. Revise ARCH 273 in list of SD major electives so that the course is 4 hours (correct) instead of 3 hours as currently listed

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1. The fall 2024 red box error report indicated this error. This update corrects the error. The course was revised from 3 to 4 credit hours for fall 2024 and the POS box had 3 manually typed in, so it did not automatically change to 4.

40 advanced hours
ARTD 326 - 3 hrs
ARCH 321 - 3 hrs
ARTD 451 - 4 hrs
FAA 330 - 5 hrs
FAA 430 - 3 hrs
FAA 431 - 5 hrs
10 hrs of 300/400 level SD major electives - 10 hrs
free electives - 7 hrs

No change to program, degree hours, sample schedule.

11.4.24 N. Turner approved on behalf of FAA Courses & Curricula Committee

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

The Student Learning objectives (SLO) are:

1. Students will have a deep level of understanding of the fundamentals of sustainability and their functional links to the built environment

2. Students will have a deep level of understanding of the fundamentals of design thinking and practice

3. Students will be proficient in applying basic principles of visual and material communication, including sketching, drafting, model-making, 2-d and 3-d design software and geographic information systems.

4. Students will be able to combine design theory and practice with sustainability principles to address environmental issues at the product, building, neighborhood, city, landscape and global levels.

5. Students will be comfortable working in multidisciplinary teams to solve complex design problems

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Assessment criteria will be based on the program's learning objectives. Students will be assessed according to the above learning objectives in each of their courses, and at the end of their program through the capstone project. For studio courses we invite critics from private firms, nonprofits and City officials to review students' work and offer feedback. Course instructors will be responsible for evaluating students' performance in their courses through formative and summative assessments of work (short, cumulative assignments throughout the semester, essays, portfolios, exhibits, reflections).
Student performance and course effectiveness are regularly evaluated by individual instructors and are based on course-embedded projects and assessment, class critiques, student program exhibits, capstone projects, portfolios, a BSSD exhibition, and student course evaluations. Studio and seminar faculty teaching in the BSSD will assess individual student performance on a regular basis.

The first level of governance for the major will be a faculty program coordinator from one of the units in the College of Fine and Applied Arts, along with one faculty person from each of the remaining three units, to form a courses and curricula committee to provide a first level of governance for all academic program concerns. This committee will meet regularly during the program startup to evaluate its success.

The following assessment data will be used to aid the evaluation of the program:
• Admission numbers disaggregated by race, gender, socio-economic status, geography, concentration, and academic year
• Student performance data
• Student participation in study abroad programs
• Undergraduate research opportunities
• Retention rates and average time to complete the degree
• Student and alumni feedback
• Senior exit survey
• Student awards and recognition outside the School of Art and Design
• Job placements
• Graduate School placements
• Alumni Surveys

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program
Description and
Requirements
Attach Documents

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/PublicAdminRules2017.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.

Revised programs	Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

The major in Sustainable Design offers an innovative, interdisciplinary course of study in design, with a focus on building sustainable communities through the intentional design of environmentally sensitive products, buildings, neighborhoods, landscapes and cities.

The program grounds concrete skills development with opportunities to move between disciplinary barriers, allowing students to prepare for the future in a sustainable world where ideas from many disciplines will be necessary to solve the complex problems of pollution reduction, energy conservation, and biodiversity protection in equitable, healthy, and thriving places.

Required introductory coursework provide a solid grounding in design thinking and skills, coupled with a broad understanding of the role of design in achieving sustainable results across scales. Students will apply their skills and knowledge in a required senior capstone project.

With expertise across disciplines, students in this program will be prepared to work in the public and private sector, or continue preparation in a variety of professional graduate programs such as Architecture, Industrial Design, Landscape Architecture, Urban Design and Urban Planning.

Statement for Programs of Study Catalog

Graduation Requirements
Minimum hours required for graduation: 120 hours.

University Requirements
Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.
The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements
Follows the campus General Education (Gen Ed) requirements. Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List		
Code	Title	Hours
Composition I		4-6
Advanced Composition		3
Humanities & the Arts (6 hours) fulfilled by ARTH 211 and FAA 201		6
Natural Sciences & Technology (6 hours)		6
Social & Behavioral Sciences (6 hours)		6
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course) fulfilled by FAA 201		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Sustainable Design Requirements

Course List		
Code	Title	Hours
Foundation		18
FAA 101	Arts at Illinois	1
FAA 230	Sustainable Design of the Built Environment	3
LA 101	Introduction to Landscape Arch	2
ARCH 171	Introduction to Design I	3
ARCH 172	Introduction to Design II	3
FAA 201	Black Arts Today	3
ARTH 211	Design History Survey	3
Urban Scale Sustainability (select one course)		3
UP 136	Urban Sustainability	3
UP 205	Ecology & Environmental Sustainability	3
ARCH 237	Urban Scale Sustainability	3
Drawing (select one course)		3
ARTD 225	Design Drawing	3
ARTF 102	Observational Drawing	3
ARTF 103	Design I	3
LA 280	Design Communications I (limited seats solely for BSSD/MLA 4+2 students)	3
Core		15
FAA 330	Making Sustainable Design	5
ARTD 326	Sustainability & Manufacturing	3
ARCH 321	Environment, Architecture, and Global Health	3
ARTD 451	Ethics of a Designer in a Global Economy	4
Senior Capstone		8
FAA 430	Capstone Seminar	3
FAA 431	Capstone Studio	5
Total Hours		47

Sustainable Design Major Electives

Course List		
Code	Title	Hours
Select 16 credit hours, with at least 10 hours at the 300 or 400-level, and with approval of advisor.		

Code	Title	Hours
ARTD 230	Design Thinking/Need-Finding	3
ARTD 270	Design Methods	2
ART 205	Experience & Meaning in Design	3
ART 208	Digital Art and Sustainability	3
ART 310	Design Thinking	3
ARTJ 398	Designing Everyday Life in Modern Japan	3
ARTD 426	Product Innovation	3
ARTS 321	Sustainable Fashion Development and Branding	3
UP 203	Cities: Planning & Urban Life	3
UP 204	Chicago: Planning & Urban Life	3
UP 205	Ecology & Environmental Sustainability (may not double count as a major requirement)	3
UP 246	International Environmental Planning and Governance	3
UP 340	Planning for Healthy Cities	3
UP 405	Watershed Ecology and Planning	4
UP 406	Urban Ecology	4
UP 418	GIS for Planners	4
UP 420	Plng for Historic Preservation	4
UP 430	Urban Transportation Planning	4
UP 434	Pedestrian and Bicycle Planning	3
UP 437	Public Transportation Planning	3
UP 456	Sustainable Planning Workshop	4
UP 479	Community Engagement in Planning	3
UP 486	Planning with Climate Change	4
UP 494	Special Topics in Planning	1-4
ARCH 210	Introduction to the History of World Architecture	3
ARCH 231	Anatomy of Buildings	4
ARCH 237	Urban Scale Sustainability (may not double count as a major requirement)	3
ARCH 273	Fundamentals of Design I	4
ARCH 416	The Architecture of the United States, c.1650 to Present	3
ARCH 417	Modern and Contemporary Global Architecture	3
LA 222	Islamic Gardens & Architecture	3
LA 314	History of World Landscapes	4
LA 370	Environmental Sustainability	3
LA 446	Sustainable Planning Seminar	4
LA 466	Energy & the Built Environment	4
LA 480	Sustainable Design Principles	2
FAA 491	Special Problems in Sustainable Design	1 to 4
Other courses approved by advisor		
Total Hours (minimum)		16

Summary of Credits for Bachelor of Science in Sustainable Design

Course List		
Code	Title	Hours
General Education requirements		
Sustainable Design Major		47
Major Electives		16
Free Electives		
A minimum of 40 credits at the 300 or 400 course level are required		

Code	Title	Hours
Total Hours		120

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?

120

CIP Code: 303301 - Sustainability Studies.

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

Is this revision a change to the admission status of the program?

No

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.

Program does not require a portfolio, there is no licensure component, and admissions requirements are managed by Undergraduate Admissions. Transfer admissions requirements remain the same (https://admissions.illinois.edu/Apply/Transfer/handbook), as do inter-college transfer requirements (https://faa.illinois.edu/majors-minors/prospective-students).

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

No impact.

Estimated Annual Number of Degrees Awarded

Year One Estimate	0	5th Year Estimate (or when fully implemented)	10-20

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)

FAA Undergrad Differential

Are you seeking a change in the tuition rate or differential for this program?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

No impact.

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.

Library’s resources, collections, and services are sufficient to meet the needs of the program outlined in this proposal.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	BS: Sustainable Design - UIUC
Program Code:	10KR5749BS

Minor Code	Conc Code	Degree Code	Major Code
5749		BS	

Senate Approval Date	
Senate	

Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	NA
Effective Date:	
Program Reviewer Comments	**Brooke Newell (bsnewell) (11/04/24 7:52 am):** Per discussion with Nicole, copied the 40 hour statement from previous revision in Spring 2024 into the Justification for this revision. **Brooke Newell (bsnewell) (11/04/24 8:51 am):** No U Program Review Comments

Key: 614

Date Submitted: 08/19/24 2:43 pm

Viewing: **10KP0133BS : Mechanical Engineering, BS**

Last approved: 11/16/23 4:05 pm

Last edit: 11/07/24 2:04 pm

Changes proposed by: Stephanie Ott-Monsivais

Catalog Pages Using this Program	Mechanical Engineering, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1917 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

Approval Path

1. 08/26/24 3:14 pm Donna Butler (dbutler): Approved for U Program Review
2. 08/26/24 9:27 pm Sanjiv Sinha (sanjiv): Approved for 1917 Head
3. 10/29/24 11:48 am Keri Pipkins (kcp): Approved for KP Committee Chair
4. 10/29/24 1:26 pm Cindy Pruitt (cpruitt): Approved for KP Dean
5. 11/05/24 10:56 am Claire Stewart (clairest):

Approved for University Librarian
6. 11/05/24 11:18 am
Suzanne Lee (suzannel): Approved for COTE Programs
7. 11/07/24 10:06 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Dec 13, 2018 by Deb Forgacs (dforgacs)
2. Apr 25, 2019 by Deb Forgacs (dforgacs)
3. Aug 12, 2019 by Deb Forgacs (dforgacs)
4. Feb 26, 2020 by Brooke Newell (bsnewell)
5. Mar 31, 2020 by Deb Forgacs (dforgacs)
6. Apr 14, 2020 by Deb Forgacs (dforgacs)
7. May 10, 2021 by Stephanie Ott-Monsivais (ottmonsi)
8. Oct 8, 2021 by Brooke Newell (bsnewell)
9. Apr 5, 2022 by Stephanie Ott-Monsivais (ottmonsi)
10. Nov 16, 2023 by

Kathy Martensen (kmartens)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Mechanical Engineering, BS
Diploma Title	
Sponsor College	Grainger College of Engineering
Sponsor Department	Mechanical Sci & Engineering
Sponsor Name	Stephanie Ott-Monsivais
Sponsor Email	ottmonsi@illinois.edu
College Contact	Jonathan Makela
College Contact Email	jmakela@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.

Kate Freeman, katefree@illinois.edu, ~~Brooke Newell, bsnewell@illinois.edu,~~ GCOE; Stephanie Ott-Monsivais, ottmonsi@illinois.edu, MechSE

Does this program have inter-departmental administration?
No

Proposal Title

Effective Catalog Term	Fall 2024

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Bachelor of Science in Mechanical Engineering in the Grainger College of Engineering

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.

1. Update of Technical Electives to remove all courses with red-box error:
--CEE 424, 430
--CHEM 474
--CS 457
--ECE 412, 432, 485
--MCB 403, 404
--STAT 458

2. Update of Technical Electives (including Professional Technical Electives, indicated with an *) to include additional MechSE Undergraduate Programs Committee (UPC) approved courses with affiliated letters of support (LOS).
--ABE 361, 452*, 454, 457
--AE 435, 480, 485
--ATMS 301, 302, 304, 306, 405, 406, 410, 411, 424
--BIOE 430, 485
--CEE 320, 419, 473, 474, 490
--CHBE 413, 458, 459, 461, 478
--CS 340, 409, 415, 437, 441, 442, 443, 444, 448, 469, 474
--ECE 350, 391, 407, 410, 443, 461, 479
--GEOL 450, 451, 454, 460
--IE 361, 370, 371, 400, 434
--MATH 314, 466
--MSE 464
--NPRE 321, 413, 445, 449, 452
--PHYS 370, 446
--STAT 431, 432, 433, 434, 437

3. Update of Technical Electives (including Professional Technical Electives, indicated with an *) to include cross-listed courses (note these are listed in the instructional resources section, but do not have letters of support as the primary course has already been approved/accounted for).
--ADV 462, 492
--AE 452,468
--ANSC 445
--ASRM 402, 450, 451, 453
--ATMS 312, 420
--BADM 460, 461

--BIOE 427, 467, 480
--CHEM 452
--CPSC 489
--CS 407, 482
--CSE 408, 414, 422, 423, 426, 427, 428, 429, 440, 448, 485
--ECE 374, 449
--EPSY 456*
--ETMA 430*
--IB 421
--MCB 406, 419, 446
--NE 410
--NEUR 419
--NRES 445
--PHYS 329
--PSYC 358, 456*
--UP 430*

4. The introductory economics requirement, ECON 102 or 103, was moved into a major requirement.

5. The formatting of the POS and additional text (e.g., graduation requirements, university requirements, and general education requirements) has been modified to adhere to the campus General Education Template.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1. These courses have been deactivated by the units owning the courses and should be removed from the current program of study as they are no longer offered.

2. To keep the BS ME list of Technical Electives current such that it will include new, revised, and previously unevaluated courses from within UIUC that may be of interest to our BS ME students and are of suitable rigor for an advanced-elective course as determined by the MechSE UPC.

3. To keep the BS ME list of Technical Electives clear, we have made sure to include course cross-listings of current and newly added (see 2.) courses to provide increased transparency.

4. This is an existing degree requirement; however, the introductory economics requirement was defined as text in a paragraph and it is now in the POS table for clarity.

5. Per Office of the Provost General Education initiative for transparency and accessibility.

The minimum 40 hours of upper-division classes for IBHE requirement are met by

--ME 470 (3 credit hours)
--ME 371 (3 credit hours)
--ME 370 (3 credit hours)
--ME 360 (3.5 credit hours)
--ME 340 (3.5 credit hours)
--ME 330 (4 credit hours)
--ME 320 (4 credit hours)
--ME 310 (4 credit hours)
--STAT 400 or IE 300 (4 or 3 credit hours, respectively)
--TAM 251 (3 credit hours) - prerequisites of TAM 210 or 211, which has prerequisites of PHYS 211 and credit or concurrent registration in MATH 241 or MATH 257
--TAM 212 (3 credit hours) - prerequisites of TAM 210 or 211, which has prerequisites of PHYS 211 and credit or concurrent registration in MATH 241 or MATH 257
--TAM 210 (2 credit hours) - prerequisites of PHYS 211 and credit or concurrent registration in MATH 241 or MATH 257
--ME 200 (3 credit hours) - prerequisites of MATH 241, which has a prerequisite of MATH 231
--MATH 285 (3 credit hours) - prerequisites of MATH 241, which has a prerequisite of MATH 231
--MATH 241 (4 credit hours) - prerequisites of MATH 231, which has a prerequisite of MATH 220 or 221
--ECE 206 (1 credit hour) - prerequisites of PHYS 212, which has prerequisites of PHYS 211 and MATH 241
--ECE 205 (3 credit hours) - prerequisites of PHYS 212, which has prerequisites of PHYS 211 and MATH 241
--PHYS 212 (4 credit hours) - prerequisites of PHYS 211 and credit or concurrent registration in MATH 241, which has a prerequisite of MATH 231

--MechSE/Technical Electives (12 credit hours required, minimum of 6 credit hours will fulfill IBHE requirements) and/or Free Electives and/or Science Elective (6 or more credit hours, depending on electives chosen).

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

Yes

Courses outside of the sponsoring department/ interdisciplinary departments

ECON 102 - Microeconomic Principles
ECON 103 - Macroeconomic Principles
AE 435 - Electric Space Propulsion
AE 480 - Hypersonic Aerothermodynamics
ATMS 301 - Atmospheric Thermodynamics
ATMS 304 - Radiative Transfer-Remote Sens
ATMS 306 - Cloud Physics
ATMS 405 - Boundary Layer Processes
ATMS 406 - Tropical Meteorology
ATMS 410 - Radar Remote Sensing
ATMS 411 - Satellite Remote Sensing
ATMS 424 - Atmospheric Convection
ECE 350 - Fields and Waves II
ECE 391 - Computer Systems Engineering
ECE 407 - Cryptography
ECE 410 - Neural Circuits and Systems
ECE 443 - LEDs and Solar Cells
ECE 461 - Digital Communications
ECE 479 - IoT and Cognitive Computing
CEE 320 - Construction Engineering
CEE 419 - Transportation Economics
CEE 473 - Wind Effects on Structures
CEE 474 - Mechanics of Additive Manufact
CEE 490 - Computer Methods
NPRE 321 - Intro to Plasmas & Application
NPRE 413 - Nucl Separ & Fuel Reprocessing

NPRE 445 - Interact of Radiation w/Matter
NPRE 449 - Nuclear Syst Engrg & Design
NPRE 452 - Adv Radiological Science Lab
GEOL 450 - Investigating Earth's Interior
GEOL 451 - Environmental Geophysics
GEOL 454 - Introduction to Seismology
GEOL 460 - Geochemistry
CHBE 458 - Synthetic Nanomaterials
CHBE 459 - Polymer Rheology
CHBE 461 - Functional Materials Assembly
CHBE 478 - Bioenergy Technology
MSE 464 - Magnetic Mat'ls & Applications
ATMS 302 - Atmospheric Dynamics I
STAT 431 - Applied Bayesian Analysis
STAT 432 - Basics of Statistical Learning
STAT 433 - Stochastic Processes
STAT 434 - Survival Analysis
STAT 437 - Unsupervised Learning
BIOE 430 - Intro Synthetic Biology
BIOE 485 - Comp Math for ML and Imaging
PHYS 370 - Intro to Quant Info and Comp
PHYS 446 - Modern Computational Physics
IE 361 - Production Planning & Control
IE 370 - Stochastic Processes & Applic
IE 371 - Simulation Modeling for IE
IE 400 - Design & Anlys of Experiments
IE 434 - Deep Learning: Math/Appl.
CS 340 - Intro to Computer Systems
CS 409 - The Art of Web Programming
CS 415 - Game Development
CS 437 - Topics in Internet of Things
CS 441 - Applied Machine Learning
CS 442 - Trustworthy Machine Learning
CS 443 - Reinforcement Learning
CS 444 - Deep Learning for Compt Visn
CS 448 - Audio Computing Laboratory
CS 469 - Comp Adv Infrastructure
CS 474 - Logic in Computer Science
MATH 314 - Intro Higher Math
MATH 466 - Applied Random Processes
ABE 361 - Func Analysis Des Agr Mach Sys
ABE 452 - Engrg for Disaster Resilience
ABE 454 - Environmental Soil Physics
ABE 457 - NPS Pollution Processes
AE 485 - Spacecraft Environments
CHBE 413 - Data Science for Chem & Eng
ADV 492 - Tech and Advertising Campaigns
ADV 462 - Comp Adv Applications

AE 452 - Intro to Nonlinear Dyn & Vib
AE 468 - Optical Remote Sensing
ANSC 445 - Statistical Methods
ASRM 402 - Actuarial Statistics II
ASRM 450 - Methods of Applied Statistics
ASRM 451 - Basics of Statistical Learning
ASRM 453 - Applied Bayesian Analysis
ATMS 312 - Atmospheric Dynamics II
ATMS 420 - Atmospheric Chemistry
BADM 460 - Business Process Modeling
BADM 461 - Tech, Eng, & Mgt Final Project
BIOE 427 - Biomedical Ultrasound Imaging
BIOE 467 - Biophotonics
BIOE 480 - Magnetic Resonance Imaging
CHEM 452 - Data Science for Chem & Eng
CPSC 489 - Photosynthesis
CS 407 - Cryptography
CS 482 - Simulation
CSE 408 - Applied Parallel Programming
CSE 414 - Fundamental Algorithms
CSE 422 - Computer System Organization
CSE 423 - Operating Systems Design
CSE 426 - Software Engineering I
CSE 427 - Interactive Computer Graphics
CSE 428 - Statistical Computing
CSE 429 - Software Engineering II
CSE 440 - Statistical Data Management
CSE 448 - Advanced Data Analysis
CSE 485 - Atomic Scale Simulations
ECE 374 - Intro to Algs & Models of Comp
ECE 449 - Machine Learning
EPSY 456 - Human Perform & Cogn in Contxt
ETMA 430 - Project Management
IB 421 - Photosynthesis
MCB 406 - Gene Expression & Regulation
MCB 419 - Brain, Behavior & Info Process
MCB 446 - Physical Biochemistry
NE 410 - Neural Circuits and Systems
NEUR 419 - Brain, Behavior & Info Process
NRES 445 - Statistical Methods
PHYS 329 - Atmospheric Dynamics I
PSYC 358 - Human Factors
PSYC 456 - Human Performance and Cognition in Context
UP 430 - Urban Transportation Planning

Please attach any letters of support/ acknowledgement for any	ME BS Request for Letter of Support - Economics_SP24.docx ME BS Request for Letter of Support - ECE_SP24.pdf ME BS Request for Letter of Support - CEE_SP24.pdf ME BS Request for Letter of Support - NPRE_SP24.pdf

Instructional Resources consider faculty, students, and/or other impacted units as appropriate.	ME BS Request for Letter of Support - GEOL_SP24.pdf ME BS Request for Letter of Support - CHBE_SP24.pdf ME BS Request for Letter of Support - MSE_SP24.pdf ME BS Request for Letter of Support - ATMS_SP24.pdf ME BS Request for Letter of Support - BIOE_SP24.pdf ME BS Request for Letter of Support - PHYS_SP24.pdf ME BS Request for Letter of Support - ISE_SP24.pdf ME BS Request for Letter of Support - ABE_SP24.pdf ME BS Request for Letter of Support - STAT_SP24.pdf ME BS Request for Letter of Support - MATH_SP24.pdf ME BS Request for Letter of Support - CS_SP24.pdf ME BS Request for Letter of Support - AE_SP24.pdf ME BS Request for Letter of Support - CHBE_SP24_CHBE413_Addition.pdf

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Data is collected and evaluated every 3 years for key curricular courses, in coordination with the faculty teaching the course in the chosen semester. Courses to be evaluated are determined by the MechSE Undergraduate Programs Committee (UPC) to be necessary to evaluate program outcomes (listed below #1. through 7.). This process allows the program to make and assess changes, advising processes, and the assessment process itself during the 6-year ABET evaluation cycle.

Each instructor (to allow for separation of lecture section results) is asked to classify the outcome attainment of all of the students in one of the five categories: Unsatisfactory (0), Marginal (1), Satisfactory (2), Mastery (3), or did not complete the assignment according to the provided rubrics. To form a metric for each program outcome, we define a performance indicator assessment ratio as the sum of the students who attained “Satisfactory (2)” and “Mastery (3)” achievement of a given performance indicator divided by the number of students who were assessed.

The UPC will evaluate all direct outcomes assessment data and discuss opportunities for improvement according to the 3-year assessment cycle. If the performance indicator assessment ratio is less than 75% for a given outcome, for a given section of a course, for a given semester then the UPC must investigate. In such cases, the UPC would first determine if further action is deemed appropriate. An example of why further action is not deemed necessary includes, but is not limited to, that the assessment ratio for one particular section of the assessed course is slightly below 75% due to small sample sizes or other explainable statistical variation in the numbers. If further action is deemed appropriate, then the UPC or a UPC appointed ad-hoc subcommittee would evaluate the assessment material, identify opportunities to improve the program if the assessment appears accurate, or improve the assessment process if the method of assessment appears lacking or inappropriate in some regard. If an improvement to either the program, assessment process or both is implemented, the performance indicator for the given outcome is reassessed and then reevaluated. If the performance indicator assessment ratios are all equal or greater than 75%, then the level of attainment is considered satisfactory and investigation is not required for the given performance indicator of the given outcome.

_____

Program outcomes and learning objectives:
The Mechanical Engineering Program prepares graduates to achieve the following student outcomes by the time of graduation:

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.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program
Description and
Requirements
Attach Documents

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/PublicAdminRules2017.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.

Revised programs ME_Sample_Sequence_SP2024.xlsx
Attach a revised Sample Sequence (for undergraduate program)
or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

The Mechanical Engineering program at Illinois (accredited by the Engineering Accreditation Commission of ABET, www.abet.org) is one of the most diverse engineering majors and plays a major role in advancing almost every industry. Students study physical principles behind how forces act on bodies of solids or fluids and the interaction of these bodies with their environments through exchanges of energy. Further, Mechanical Engineering students learn how to apply these basic principles in designing, manufacturing, and controlling machines and complex systems. Examples include systems that apply loads, transport matter and energy, and convert one form of energy to another. Mechanical Engineering is a broad major that is well suited for students interested in how the world around them moves and changes.

Statement for Programs of Study Catalog

Graduation Requirements

~~Minimum Technical GPA: 2.0~~

Minimum hours required for graduation: 128 hours.

Minimum Overall GPA: 2.0

Minimum Technical GPA: 2.0

~~2.0~~

TGPA is required for required Engineering courses and any technical elective courses. See ~~See~~**Technical GPA** to clarify requirements.

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements

~~Minimum OverallGPA:2.0 Minimum hours required forgraduation:128 hours Generaleducation:~~Follows the campus ~~Students must complete the Campus~~ General Education (Gen Ed) requirements. ~~including the campus general education language requirement.~~ Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List

Code	Title	Hours
Composition I		4-6
Advanced Composition		3
	fulfilled by ME 470	
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
	fulfilled by CHEM 102, PHYS 211, PHYS 212	
Social & Behavioral Sciences (6 hours)		6
	fulfilled by ECON 102 or ECON 103, and any other course approved as Social & Behavioral Sciences	
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10

Code	Title	Hours
	fulfilled by MATH 220 or MATH 221; and MATH 231, MATH 241, MATH 285, PHYS 211, PHYS 212	
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Major Requirements

~~**One of the SBS courses must be an introductory economics course (ECON 102 orECON 103).ME 470 will satisfy a core course requirement and the Campus General Education Advanced Compositionrequirement.**~~ **Orientation and Professional Development** ~~**Foundational Mathematics and ScienceMechanical Engineering Technical CoreTechnical ElectivesFree Electives**~~

Course List

Code	Title	Hours
ENG 100	Grainger Engineering Orientation Seminar (External transfer students take ENG 300.)	1
ME 290	Seminar	0
Total Hours		1

Introductory Economics Elective

Course List

Code	Title	Hours
ECON 102	Microeconomic Principles	3
or ECON 103	Macroeconomic Principles	
Total Hours		3

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
MATH 285	Intro Differential Equations	3
PHYS 211	University Physics: Mechanics	4
PHYS 212	University Physics: Elec & Mag	4
Total Hours		29

Mechanical Engineering Technical Core

Course List

Code	Title	Hours
CS 101	Intro Computing: Engrg & Sci (CS 124 or ECE 220 may be substituted.)	3
ECE 205	Electrical and Electronic Circuits (ECE 110 and either ECE 210 or ECE 211 may be substituted.)	3
ECE 206	Electrical and Electronic Circuits Lab	1
ME 170	Computer-Aided Design	3
ME 270	Design for Manufacturability	3
ME 200	Thermodynamics	3
ME 310	Fundamentals of Fluid Dynamics	4
ME 320	Heat Transfer	4
ME 330	Engineering Materials	4

Code	Title	Hours
ME 340	Dynamics of Mechanical Systems	3.5
ME 360	Signal Processing	3.5
ME 370	Mechanical Design I	3
ME 371	Mechanical Design II	3
ME 470	Senior Design Project	3
TAM 210	Introduction to Statics	2
TAM 212	Introductory Dynamics	3
TAM 251	Introductory Solid Mechanics	3
Total Hours		52

Technical Electives

Course List

Code	Title	Hours
Science elective(s), chosen from one of the following:		4
CHEM 104	General Chemistry II	
& CHEM 105	and General Chemistry Lab II	
MCB 150	Molec & Cellular Basis of Life	
PHYS 213	Univ Physics: Thermal Physics	
& PHYS 214	and Univ Physics: Quantum Physics	
Statistics elective, one course chosen from:		3
IE 300	Analysis of Data	
STAT 400	Statistics and Probability I	
MechSE electives chosen from the departmentally approved list below.		6
All 400 level ME courses, except 470 and potentially 497, 498 (As Approved)		
All 400 level TAM courses, except potentially 497, 498 (As Approved)		
Technical electives chosen from the departmentally approved list below.		6
ABE 361	Functional Analysis and Design of Agricultural Machine Systems	3
ABE 430	Project Management (As Approved)	2
ABE 436	Renewable Energy Systems	3 or 4
ABE 445	Statistical Methods	4
ABE 452	Engineering for Disaster Resilience (As Approved)	3 or 4
ABE 454	Environmental Soil Physics	3
ABE 455	Erosion and Sediment Control	2
ABE 456	Land & Water Resources Engrg	3 or 4
ABE 457	NPS Pollution Processes	2
ABE 459	Drainage and Water Management	3 or 4
ABE 466	Engineering Off-Road Vehicles	3
ABE 469	Capstone Design Experience	4
ABE 476	Indoor Air Quality Engineering	4
ABE 483	Engineering Properties of Food Materials	3
ABE 488	Bioprocessing Biomass for Fuel	4
ABE 497	Independent Study (As Approved)	1 to 4
ABE 498	Special Topics (As Approved)	1 to 4
ADV 462	Computational Advertising Infrastructure	3 or 4
ADV 492	Tech and Advertising Campaigns	3
AE 352	Aerospace Dynamical Systems	3
AE 402	Orbital Mechanics	3 or 4
AE 403	Spacecraft Attitude Control	3 or 4

Code	Title	Hours
AE 410	Computational Aerodynamics	3 or 4
AE 412	Viscous Flow & Heat Transfer	4
AE 416	Applied Aerodynamics	3 or 4
AE 419	Aircraft Flight Mechanics	3 or 4
AE 420	Finite Element Analysis	3 or 4
AE 428	Mechanics of Composites	3
AE 433	Aerospace Propulsion	3 or 4
AE 434	Rocket Propulsion	3 or 4
AE 435	Electric Space Propulsion	3 or 4
AE 442	Aerospace Systems Design I	3
AE 443	Aerospace Systems Design II	3
AE 451	Aeroelasticity	3 or 4
AE 452	Introduction to Nonlinear Dynamics and Vibrations	4
AE 454	Systems Dynamics & Control	3 or 4
AE 456	Global Nav Satellite Systems	4
AE 460	Aerodynamics & Propulsion Lab	2
AE 461	Structures & Control Lab	2
AE 468	Optical Remote Sensing	3
AE 480	Hypersonic Aerothermodynamics	3 or 4
AE 482	Introduction to Robotics	4
AE 483	Autonomous Systems Lab	2
AE 485	Spacecraft Environment and Interactions	3 or 4
AE 497	Independent Study (As Approved)	1 to 4
AE 498	Special Topics (As Approved)	1 to 4
ANSC 445	Statistical Methods	4
ASRM 402	Actuarial Statistics II	4
ASRM 410	Investments and Financial Markets	3 or 4
ASRM 450	Methods of Applied Statistics	3 or 4
ASRM 451	Basics of Statistical Learning	3 or 4
ASRM 453	Applied Bayesian Analysis	3 or 4
ASRM 461	Loss Models	4
ASRM 469	Casualty Actuarial Mathematics	3 or 4
ASRM 471	Life Contingencies I	4
ASRM 472	Life Contingencies II	3
ATMS 301	Atmospheric Thermodynamics	3
ATMS 302	Atmospheric Dynamics I	3
ATMS 304	Radiative Transfer-Remote Sens	3
ATMS 306	Cloud Physics	3
ATMS 312	Atmospheric Dynamics II	3
ATMS 405	Boundary Layer Processes	4
ATMS 406	Tropical Meteorology	4
ATMS 410	Radar Remote Sensing	4
ATMS 411	Satellite Remote Sensing	4
ATMS 420	Atmospheric Chemistry	4
ATMS 424	Atmospheric Convection	4
BADM 460	Business Process Modeling	3
BADM 461	Tech, Eng, & Mgt Final Project	4

Code	Title	Hours
BIOC 406	Gene Expression & Regulation	3
BIOC 446	Physical Biochemistry	3
BIOC 455	Technqs Biochem & Biotech	4
BIOE 380	Biomedical Imaging	3
BIOE 414	Biomedical Instrumentation	3
BIOE 415	Biomedical Instrumentation Lab	2
BIOE 416	Biosensors	3
BIOE 427	Biomedical Ultrasound Imaging	3
BIOE 430	Intro Synthetic Biology	3 or 4
BIOE 461	Cellular Biomechanics	4
BIOE 467	Biophotonics	3
BIOE 476	Tissue Engineering	3
BIOE 479	Cancer Nanotechnology	3
BIOE 480	Magnetic Resonance Imaging	3 or 4
BIOE 481	Whole-Body Musculoskel Biomech	3 or 4
BIOE 482	Musculoskel Tissue Mechanics	3 or 4
BIOE 485	Computational Mathematics for Machine Learning and Imaging	4
BIOE 497	Individual Study (As Approved)	1 to 4
BIOE 498	Special Topics (As Approved)	1 to 4
BIOP 401	Introduction to Biophysics	3
BIOP 419	Brain, Behavior & Info Process	3
BIOP 432	Photosynthesis	3
CEE 310	Transportation Engineering	3
CEE 320	Construction Engineering	3
CEE 330	Environmental Engineering	3
CEE 340	Energy and Global Environment	3
CEE 350	Water Resources Engineering	3
CEE 360	Structural Engineering	3
CEE 380	Geotechnical Engineering	3
CEE 398	Special Topics (As Approved)	0 to 4
CEE 401	Concrete Materials	4
CEE 405	Asphalt Materials I	3 or 4
CEE 406	Pavement Design I	3 or 4
CEE 407	Airport Design	3 or 4
CEE 408	Railroad Transportation Engrg	3 or 4
CEE 409	Railroad Track Engineering	3 or 4
CEE 410	Railway Signaling & Control	3 or 4
CEE 411	RR Project Design & Constr	3 or 4
CEE 412	High-Speed Rail Engineering	3 or 4
CEE 415	Geometric Design of Roads	4
CEE 416	Traffic Capacity Analysis	3 or 4
CEE 417	Urban Transportation Planning (As Approved)	4
CEE 418	Public Transportation Systems	3 or 4
CEE 419	Transportation Economics	4
CEE 420	Construction Productivity	3 or 4
CEE 421	Construction Planning	3 or 4
CEE 422	Construction Cost Analysis	3 or 4

Code	Title	Hours
~~CEE 424~~	~~Course CEE 424 Not Found~~	~~4~~
~~CEE 430~~	~~Course CEE 430 Not Found~~	~~2~~
CEE 434	Environmental Systems I	3
CEE 437	Water Quality Engineering	3
CEE 438	Science & Environmental Policy	3
CEE 440	Fate Cleanup Environ Pollutant	4
CEE 442	Environmental Engineering Principles, Physical	4
CEE 443	Env Eng Principles, Chemical	4
CEE 444	Env Eng Principles, Biological	4
CEE 447	Atmospheric Chemistry	4
CEE 449	Environmental Engineering Lab	3
CEE 450	Surface Hydrology	3
CEE 451	Environmental Fluid Mechanics	3
CEE 452	Hydraulic Analysis and Design	3
CEE 453	Urban Hydrology and Hydraulics	4
CEE 457	Groundwater	3
CEE 458	Water Resources Field Methods	4
CEE 460	Steel Structures I	3
CEE 461	Reinforced Concrete I	3
CEE 462	Steel Structures II	3 or 4
CEE 463	Reinforced Concrete II	3 or 4
CEE 465	Design of Structural Systems	3
CEE 467	Masonry Structures	3 or 4
CEE 468	Prestressed Concrete	3 or 4
CEE 469	Wood Structures	3 or 4
CEE 470	Structural Analysis	4
CEE 471	Structural Mechanics	3 or 4
CEE 472	Structural Dynamics I	3 or 4
CEE 473	Wind Effects on Structures	4
CEE 474	Mechanics of Additive Manufacturing	3 or 4
CEE 483	Soil Mechanics and Behavior	4
CEE 484	Applied Soil Mechanics	3 or 4
CEE 490	Computer Methods	3 or 4
CEE 491	Decision and Risk Analysis	3 or 4
CEE 497	Independent Study (As Approved)	1 to 16
CEE 498	Special Topics (As Approved)	1 to 4
CHBE 413	Data Science for Chemistry and Engineering	4
CHBE 422	Mass Transfer Operations	4
CHBE 424	Chemical Reaction Engineering	3
CHBE 451	Transport Phenomena	3
CHBE 452	Chemical Kinetics & Catalysis	3
CHBE 453	Electrochemical Engineering	2 or 3
CHBE 456	Polymer Science & Engineering	3
CHBE 458	Synthetic Nanomaterials	3
CHBE 459	Polymer Rheology	3
CHBE 461	Functional Materials Assembly	3
CHBE 471	Biochemical Engineering	3 or 4

Code	Title	Hours
CHBE 472	Techniques in Biomolecular Eng	3 or 4
CHBE 473	Biomolecular Engineering	3 or 4
CHBE 474	Metabolic Engineering	3 or 4
CHBE 475	Tissue Engineering	3
CHBE 476	Biotransport	3
CHBE 478	Bioenergy Technology	3
CHEM 232	Elementary Organic Chemistry I	3 or 4
CHEM 233	Elementary Organic Chem Lab I	2
CHEM 236	Fundamental Organic Chem I	4
CHEM 237	Structure and Synthesis	2
CHEM 312	Inorganic Chemistry	3
CHEM 315	Instrumental Chem Systems Lab	2
CHEM 317	Inorganic Chemistry Lab	3
CHEM 332	Elementary Organic Chem II	4
CHEM 420	Instrumental Characterization	2
CHEM 436	Fundamental Organic Chem II	3
CHEM 437	Organic Chemistry Lab	3
CHEM 440	Physical Chemistry Principles	4
CHEM 442	Physical Chemistry I	4
CHEM 444	Physical Chemistry II	4
CHEM 445	Physical Principles Lab I	2
CHEM 447	Physical Principles Lab II	2
CHEM 452	Data Science for Chemistry and Engineering	4
CHEM 460	Green Chemistry	3 or 4
CHEM 472	Physical Biochemistry	3
~~CHEM 474~~	~~Course CHEM 474 Not Found~~	
CHEM 480	Polymer Chemistry	3 or 4
CHEM 482	Polymer Physics	3 or 4
CHEM 483	Solid State Structural Anlys	4
CHEM 488	Surfaces and Colloids	3 or 4
CHEM 497	Individual Study Senior (As Approved)	1 to 3
CPSC 489	Photosynthesis	3
CS 225	Data Structures	4
CS 233	Computer Architecture	4
CS 242	Programming Studio	3
CS 340	Introduction to Computer Systems	3
CS 341	System Programming	4
CS 357	Numerical Methods I	3
CS 374	Introduction to Algorithms & Models of Computation	4
CS 407	Cryptography	3 or 4
CS 409	The Art of Web Programming	3 or 4
CS 410	Text Information Systems	3 or 4
CS 411	Database Systems	3 or 4
CS 412	Introduction to Data Mining	3 or 4
CS 413	Intro to Combinatorics	3 or 4
CS 414	Multimedia Systems	3 or 4
CS 415	Game Development	3 or 4

Code	Title	Hours
CS 418	Interactive Computer Graphics	3 or 4
CS 419	Production Computer Graphics	3 or 4
CS 420	Parallel Progrmg: Sci & Engrg	3 or 4
CS 421	Programming Languages & Compilers	3 or 4
CS 422	Programming Language Design	3 or 4
CS 423	Operating Systems Design	3 or 4
CS 424	Real-Time Systems	3 or 4
CS 425	Distributed Systems	3 or 4
CS 426	Compiler Construction	3 or 4
CS 427	Software Engineering I	3 or 4
CS 428	Software Engineering II	3 or 4
CS 429	Software Engineering II, ACP	3
CS 431	Embedded Systems	3 or 4
CS 433	Computer System Organization	3 or 4
CS 436	Computer Networking Laboratory	3 or 4
CS 437	Topics in Internet of Things	3 or 4
CS 438	Communication Networks	3 or 4
CS 439	Wireless Networks	3 or 4
CS 440	Artificial Intelligence	3 or 4
CS 441	Applied Machine Learning	3 or 4
CS 442	Trustworthy Machine Learning	3 or 4
CS 443	Reinforcement Learning	3 or 4
CS 444	Deep Learning for Computer Vision	3 or 4
CS 445	Computational Photography	3 or 4
CS 446	Machine Learning	3 or 4
CS 447	Natural Language Processing	3 or 4
CS 448	Audio Computing Laboratory	3 or 4
CS 450	Numerical Analysis	3 or 4
~~CS 457~~	~~Course CS 457 Not Found~~	
CS 460	Security Laboratory	3 or 4
CS 461	Computer Security I	4
CS 463	Computer Security II	3 or 4
CS 465	User Interface Design	4
CS 466	Introduction to Bioinformatics	3 or 4
CS 467	Social Visualization	3 or 4
CS 468	Tech and Advertising Campaigns	3
CS 469	Computational Advertising Infrastructure	3 or 4
CS 473	Algorithms	4
CS 474	Logic in Computer Science	3 or 4
CS 475	Formal Models of Computation	3 or 4
CS 476	Program Verification	3 or 4
CS 477	Formal Software Development Methods	3 or 4
CS 481	Advanced Topics in Stochastic Processes & Applications	3 or 4
CS 482	Simulation	3 or 4
CS 483	Applied Parallel Programming	4
CS 484	Parallel Programming	3 or 4
CS 498	Special Topics (As Approved)	1 to 4

Code	Title	Hours
CSE 401	Numerical Analysis	3 or 4
CSE 402	Parallel Progrmg: Sci & Engrg	3 or 4
CSE 408	Applied Parallel Programming	4
CSE 412	Numerical Thermo-Fluid Mechs	2 to 4
CSE 414	Algorithms	4
CSE 422	Computer System Organization	3 or 4
CSE 423	Operating Systems Design	3 or 4
CSE 426	Software Engineering I	3 or 4
CSE 427	Interactive Computer Graphics	3 or 4
CSE 428	Statistical Computing	3 or 4
CSE 429	Software Engineering II	3 or 4
CSE 440	Statistical Data Management	3 or 4
CSE 441	Introduction to Optimization	3 or 4
CSE 448	Advanced Data Analysis	4
CSE 450	Computational Mechanics	3 or 4
CSE 451	Finite Element Analysis	3 or 4
CSE 461	Computational Aerodynamics	3 or 4
CSE 485	Atomic Scale Simulations	3 or 4
ECE 329	Fields and Waves I	3
ECE 330	Power Ckts & Electromechanics	3
ECE 333	Green Electric Energy	3
ECE 340	Semiconductor Electronics	3
ECE 342	Electronic Circuits	3
ECE 343	Electronic Circuits Laboratory	1
ECE 350	Fields and Waves II	3
ECE 374	Introduction to Algorithms & Models of Computation	4
ECE 380	Biomedical Imaging	3
ECE 385	Digital Systems Laboratory	3
ECE 391	Computer Systems Engineering	4
ECE 395	Advanced Digital Projects Lab	2 or 3
ECE 401	Signal Processing	4
ECE 402	Electronic Music Synthesis	3
ECE 403	Audio Engineering	3
ECE 407	Cryptography	3 or 4
ECE 408	Applied Parallel Programming	4
ECE 410	Neural Circuits and Systems	3 or 4
ECE 411	Computer Organization & Design	4
~~ECE 412~~	~~Course ECE 412 Not Found~~	
ECE 414	Biomedical Instrumentation	3
ECE 415	Biomedical Instrumentation Lab	2
ECE 416	Biosensors	3
ECE 417	Multimedia Signal Processing	4
ECE 418	Image & Video Processing	4
ECE 419	Security Laboratory	3 or 4
ECE 420	Embedded DSP Laboratory	2
ECE 422	Computer Security I	4
ECE 424	Computer Security II	3 or 4

Code	Title	Hours
ECE 425	Intro to VLSI System Design	3
ECE 428	Distributed Systems	3 or 4
ECE 431	Electric Machinery	4
~~ECE 432~~	~~Course ECE 432 Not Found~~	
ECE 435	Computer Networking Laboratory	3 or 4
ECE 437	Sensors and Instrumentation	3
ECE 438	Communication Networks	3 or 4
ECE 439	Wireless Networks	3 or 4
ECE 441	Physcs & Modeling Semicond Dev	3
ECE 443	LEDs and Solar Cells	4
ECE 444	IC Device Theory & Fabrication	4
ECE 447	Active Microwave Ckt Design	3
ECE 448	Artificial Intelligence	3 or 4
ECE 449	Machine Learning	3 or 4
ECE 451	Adv Microwave Measurements	3
ECE 452	Electromagnetic Fields	3
ECE 453	Wireless Communication Systems	4
ECE 454	Antennas	3
ECE 455	Optical Electronics	3 or 4
ECE 456	Global Nav Satellite Systems	4
ECE 457	Microwave Devices & Circuits	3
ECE 458	Applic of Radio Wave Propag	3
ECE 459	Communications Systems	3
ECE 460	Optical Imaging	4
ECE 461	Digital Communications	3
ECE 462	Logic Synthesis	3
ECE 463	Digital Communications Lab	2
ECE 464	Power Electronics	3
ECE 465	Optical Communications Systems	3
ECE 466	Optical Communications Lab	1
ECE 467	Biophotonics	3
ECE 468	Optical Remote Sensing	3
ECE 469	Power Electronics Laboratory	2
ECE 470	Introduction to Robotics	4
ECE 472	Biomedical Ultrasound Imaging	3
ECE 473	Fund of Engrg Acoustics	3 or 4
ECE 476	Power System Analysis	3
ECE 478	Formal Software Development Methods	3 or 4
ECE 479	IoT and Cognitive Computing	4
ECE 480	Magnetic Resonance Imaging	3 or 4
ECE 481	Nanotechnology	4
ECE 482	Digital IC Design	3
ECE 483	Analog IC Design	3
~~ECE 485~~	~~Course ECE 485 Not Found~~	
ECE 486	Control Systems	4
ECE 487	Intro Quantum Electr for EEs	3
ECE 488	Compound Semicond & Devices	3

Code	Title	Hours
ECE 489	Robot Dynamics and Control	4
ECE 490	Introduction to Optimization	3 or 4
ECE 491	Numerical Analysis	3 or 4
ECE 492	Parallel Progrmg: Sci & Engrg	3 or 4
ECE 493	Advanced Engineering Math	3 or 4
ECE 495	Photonic Device Laboratory	3
ECE 498	Special Topics in ECE (As Approved)	0 to 4
ECON 302	Inter Microeconomic Theory (As Approved)	3
EPSY 456	Human Performance and Cognition in Context (As Approved)	3 or 4
ETMA 430	Project Management (As Approved)	2
GEOL 450	Investigating the Earth's Interior	3
GEOL 451	Environmental Geophysics	4
GEOL 454	Introduction to Seismology	3 or 4
GEOL 460	Geochemistry	3
IB 421	Photosynthesis	3
IE 310	Deterministic Models in Optimization	3
IE 311	Operations Research Lab	1
IE 330	Industrial Quality Control	3
IE 340	Human Factors	4
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 or 4
IE 410	Advanced Topics in Stochastic Processes & Applications	3 or 4
IE 411	Optimization of Large Systems	3 or 4
IE 412	OR Models for Mfg Systems	3 or 4
IE 413	Simulation	3 or 4
IE 420	Financial Engineering	3 or 4
IE 430	Economic Found of Quality Syst	3 or 4
IE 431	Design for Six Sigma	3
IE 434	Deep Learning: Mathematics and Applications	3 or 4
IE 445	Human Performance and Cognition in Context (As Approved)	3 or 4
IE 497	Independent Study (As Approved)	1 to 4
IE 498	Special Topics (As Approved)	1 to 4
MATH 314	Introduction to Higher Mathematics	4
MATH 347	Fundamental Mathematics	3
MATH 357	Numerical Methods I	3
MATH 403	Euclidean Geometry	3 or 4
MATH 412	Graph Theory	3 or 4
MATH 413	Intro to Combinatorics	3 or 4
MATH 414	Mathematical Logic	3 or 4
MATH 417	Intro to Abstract Algebra	3 or 4
MATH 418	Intro to Abstract Algebra II	3 or 4
MATH 423	Differential Geometry	3 or 4
MATH 424	Honors Real Analysis	3
MATH 425	Honors Advanced Analysis	3

Code	Title	Hours
MATH 427	Honors Abstract Algebra	3
MATH 428	Honors Topics in Mathematics (As Approved)	3
MATH 432	Set Theory and Topology	3 or 4
MATH 442	Intro Partial Diff Equations	3 or 4
MATH 444	Elementary Real Analysis	3 or 4
MATH 446	Applied Complex Variables	3 or 4
MATH 447	Real Variables	3 or 4
MATH 448	Complex Variables	3 or 4
MATH 450	Numerical Analysis	3 or 4
MATH 453	Number Theory	3 or 4
MATH 464	Statistics and Probability II	3 or 4
MATH 466	Applied Random Processes	3 or 4
MATH 473	Algorithms	4
MATH 475	Formal Models of Computation	3 or 4
MATH 481	Vector and Tensor Analysis	3 or 4
MATH 482	Linear Programming	3 or 4
MATH 484	Nonlinear Programming	3 or 4
MATH 487	Advanced Engineering Math	3 or 4
MATH 489	Dynamics & Differential Eqns	3 or 4
MATH 490	Advanced Topics in Mathematics (As Approved)	1 to 4
MATH 492	Undergraduate Research in Math (As Approved)	1 to 3
MCB 401	Cellular Physiology	3
MCB 402	Sys & Integrative Physiology	3
~~MCB 403~~	~~Course MCB 403 Not Found~~	
~~MCB 404~~	~~Course MCB 404 Not Found~~	
MCB 406	Gene Expression & Regulation	3
MCB 419	Brain, Behavior & Info Process	3
MCB 446	Physical Biochemistry	3
MCB 450	Introductory Biochemistry	3
MCB 493	Special Topics Mol Cell Biol (As Approved)	1 to 4
MSE 304	Electronic Properties of Matls	3
MSE 307	Materials Laboratory I	3
MSE 308	Materials Laboratory II	3
MSE 401	Thermodynamics of Materials	3
MSE 402	Kinetic Processes in Materials	3
MSE 403	Synthesis of Materials	3
MSE 405	Microstructure Determination	3
MSE 406	Thermal-Mech Behavior of Matls	3
MSE 420	Ceramic Materials & Properties	3
MSE 421	Ceramic Processing	3 or 4
MSE 422	Electrical Ceramics	3
MSE 440	Mechanical Behavior of Metals	3
MSE 441	Metals Processing	3
MSE 443	Design of Engineering Alloys	3
MSE 450	Polymer Science & Engineering	3 or 4
MSE 453	Plastics Engineering	3
MSE 455	Macromolecular Solids	3

Code	Title	Hours
MSE 456	Mechanics of Composites	3
MSE 457	Polymer Chemistry	3 or 4
MSE 458	Polymer Physics	3 or 4
MSE 460	Electronic Materials I	3
MSE 461	Electronic Materials II	3
MSE 464	Magnetic Materials and their Applications	3 or 4
MSE 466	Electrochemical Energy Conversion	3
MSE 470	Design and Use of Biomaterials	3
MSE 473	Biomolecular Materials Science	3
MSE 474	Biomaterials and Nanomedicine	3
MSE 480	Surfaces and Colloids	3 or 4
MSE 481	Electron Microscopy	3 or 4
MSE 485	Atomic Scale Simulations	3 or 4
MSE 487	Materials for Nanotechnology	3 or 4
MSE 488	Optical Materials	3 or 4
MSE 489	Matl Select for Sustainability	3 or 4
MSE 497	Independent Study (As Approved)	1 to 4
MSE 498	Special Topics (As Approved)	1 to 4
NE 410	Neural Circuits and Systems	3 or 4
NEUR 419	Brain, Behavior & Info Process	3
NPRE 321	Introduction to Plasmas and Applications	3
NPRE 330	Materials in Nuclear Engineering	3
NPRE 402	Nuclear Power Engineering	3 or 4
NPRE 412	Nuclear Power Econ & Fuel Mgmt	3 or 4
NPRE 413	Nuclear Separations and Fuel Reprocessing	2 or 3
NPRE 421	Plasma and Fusion Science	3
NPRE 423	Plasma Laboratory	2
NPRE 429	Plasma Engineering	3
NPRE 435	Radiological Imaging	3
NPRE 441	Radiation Protection	4
NPRE 442	Radioactive Waste Management	3
NPRE 445	Interaction of Radiation with Matter	4
NPRE 448	Nuclear Syst Engrg & Design	4
NPRE 449	Nuclear Systems Engineering and Design	3
NPRE 451	NPRE Laboratory	3
NPRE 452	Advanced Radiological Science Lab	2 or 4
NPRE 455	Neutron Diffusion & Transport	4
NPRE 457	Safety Anlys Nucl Reactor Syst	3 or 4
NPRE 461	Probabilistic Risk Assessment	3 or 4
NPRE 470	Fuel Cells & Hydrogen Sources	3
NPRE 475	Wind Power Systems	3 or 4
NPRE 498	Special Topics (As Approved)	1 to 4
NRES 445	Statistical Methods	4
PHYS 329	Atmospheric Dynamics I	3
PHYS 330	Atmospheric Dynamics II	3
PHYS 370	Introduction to Quantum Information and Computing	3
PHYS 401	Classical Physics Lab	3

Code	Title	Hours
PHYS 402	Light	3 or 4
PHYS 403	Modern Experimental Physics	4 or 5
PHYS 404	Electronic Circuits	4 or 5
PHYS 406	Acoustical Physics of Music	4
PHYS 427	Thermal & Statistical Physics	4
PHYS 435	Electromagnetic Fields I	3
PHYS 436	Electromagnetic Fields II	3
PHYS 446	Modern Computational Physics	3
PHYS 460	Condensed Matter Physics	4
PHYS 466	Atomic Scale Simulations	3 or 4
PHYS 470	Subatomic Physics	4
PHYS 475	Introduction to Biophysics	3 or 4
PHYS 485	Atomic Phys & Quantum Theory	3
PHYS 486	Quantum Physics I	4
PHYS 487	Quantum Physics II	4
PHYS 496	Communicating in Physics—Writing Papers and Giving Talks (As Approved)	3
PHYS 497	Individual Study (As Approved)	1 to 4
PHYS 498	Special Topics in Physics (As Approved)	1 to 4
PSYC 358	Human Factors	4
PSYC 456	Human Performance and Cognition in Context (As Approved)	3 or 4
SE 400	Engineering Law (As Approved)	3 or 4
SE 402	Comp-Aided Product Realization	3 or 4
SE 411	Reliability Engineering	3 or 4
SE 412	Nondestructive Evaluation	3 or 4
SE 413	Engineering Design Optimization	3 or 4
SE 420	Digital Control Systems	4
SE 422	Robot Dynamics and Control	4
SE 423	Mechatronics	3
SE 424	State Space Design for Control	3
SE 450	Decision Analysis I (As Approved)	3 or 4
SE 497	Independent Study (As Approved)	0 to 4
SE 498	Special Topics (As Approved)	1 to 4
STAT 409	Actuarial Statistics II	4
STAT 410	Statistics and Probability II	3 or 4
STAT 420	Methods of Applied Statistics	3 or 4
STAT 424	Design of Experiments	3 or 4
STAT 425	Statistical Modeling I	3 or 4
STAT 426	Statistical Modeling II	3 or 4
STAT 428	Statistical Computing	3 or 4
STAT 429	Time Series Analysis	3 or 4
STAT 430	Topics in Applied Statistics (As Approved)	3 or 4
STAT 431	Applied Bayesian Analysis	3 or 4
STAT 432	Basics of Statistical Learning	3 or 4
STAT 433	Stochastic Processes	3 or 4
STAT 434	Survival Analysis	3 or 4
STAT 437	Unsupervised Learning	3 or 4
STAT 440	Statistical Data Management	3 or 4

Code	Title	Hours
STAT 443	Professional Statistics (As Approved)	3 or 4
STAT 448	Advanced Data Analysis	4
~~STAT 458~~	~~Course STAT 458 Not Found~~	
STAT 480	Big Data Analytics	3 or 4
TE 461	Technology Entrepreneurship (As Approved)	3
TMGT 460	Business Process Modeling	3
TMGT 461	Tech, Eng, & Mgt Final Project	4
UP 430	Urban Transportation Planning (As Approved)	4

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 Curriculum to Graduate		128

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: 141901 - Mechanical 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: Fall 2024

Admissions Term

Is this revision a change to the admission status of the program?

No

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.

Requirements will not change from previous admission requirements.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

This revision will not impact enrollment nor degrees awarded.

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)

Engineering Differential

Are you seeking a change in the tuition rate or differential for this program?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

This revision has no impact on 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.

This revision has no impact on the University Library's resources, collections, and services.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 120 Mechanical Engineering, BS 8_26_2024.docx
Banner/Codebook Name	BS:Mechanical Engineerng -UIUC
Program Code:	10KP0133BS

Minor Code	Conc Code	Degree Code		Major Code
0133		BS		

Senate Approval Date

Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Brooke Newell (bsnewell) (05/02/24 12:30 pm):** Rollback: Email sent to Stephanie and Ashley **Brooke Newell (bsnewell) (05/24/24 2:51 pm):** Rollback: Per email conversation with Stephanie **Brooke Newell (bsnewell) (08/26/24 8:05 am):** U Program Review comments are attached in the DMI Documentation section. **Brooke Newell (bsnewell) (11/05/24 3:16 pm):** Per consultation with College and Department Sponsors, removed CHEM 474 (deactivated course) from the Program of Study table and added it into the Justification #1

Key: 120

Date Submitted: 11/04/24 1:40 pm

Viewing: 10KS4043MS & 10KS4043MSU : Recreation, Sport and Tourism, MS (on campus & online)

Last approved: 09/30/21 3:19 pm

Last edit: 11/21/24 10:02 am

Changes proposed by: Monika Stodolska

Catalog Pages Using this Program	Recreation, Sport & Tourism, MS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1714 Committee Chair**
3. **1714 Head**
4. **KY Committee Chair**
5. **KY Dean**
6. **University Librarian**
7. **Grad_College**
8. **COTE Programs**
9. **Provost**
10. **Senate EPC**
11. Senate
12. U Senate Conf
13. Board of Trustees
14. IBHE
15. HLC
16. DOE
17. DMI

Approval Path

1. 11/07/24 4:48 pm Donna Butler (dbutler): Approved for U Program Review
2. 11/07/24 5:23 pm Monika Stodolska (stodolsk): Approved for 1714 Committee Chair
3. 11/08/24 9:35 am Carla Santos (csantos): Approved for 1714 Head
4. 11/08/24 10:09 am Robbin King (rlking10):

Approved for KY Committee Chair
5. 11/08/24 10:37 am
Steve Petruzzello (petruzze): Approved for KY Dean
6. 11/14/24 11:56 am
Claire Stewart (clairest): Approved for University Librarian
7. 11/15/24 10:42 am
Allison McKinney (agrindly): Approved for Grad_College
8. 11/15/24 2:09 pm
Suzanne Lee (suzannel): Approved for COTE Programs
9. 11/21/24 6:23 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Sep 30, 2021 by Monika Stodolska (stodolsk)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Recreation, Sport and Tourism, MS (on campus & online)

Diploma Title	
Sponsor College	Applied Health Sciences
Sponsor Department	Recreation, Sport & Tourism
Sponsor Name	Monika Stodolska
Sponsor Email	stodolsk@illinois.edu
College Contact	Steve Petruzzello ~~Reggie Alston~~
College Contact Email	petruzze@illinois.edu ~~alston@illinois.edu~~
College Budget Officer	
College Budget Officer Email	

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.

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Master of Science in Recreation, Sport and Tourism in the College of Applied Health Sciences and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of	1. There are no changes in the Program of Study. The elective hours need to be edited from 12 to 8.

what changes are being made to the program.	2. For the elective hours in thesis and non-thesis tracks, students are allowed to choose any 500-level or 400-level (approved for graduate credit) UIUC course outside of RST. The choice will need to be made in consultation with the academic advisor.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1. It is a necessary correction to the already existing curriculum.
2. Defining additional coursework for clarity.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Learning outcomes for RST MS students are in place to assess and improve student learning. These learning outcomes are as follows:

1. Graduates will have an in-depth understanding of the conceptual and theoretical foundations (i.e., concepts, theories, applications, and principles) of recreation, sport and tourism.

2. Graduates will have an in-depth understanding of societal issues and how recreation, sport and tourism is integral to addressing contemporary societal issues.

3. Graduates will have an in-depth understanding of managing recreation, sport and tourism organizations.

4. Graduates will develop understanding and competence in marketing planning, strategy, implementation and evaluation in recreation, sport and tourism.

5. Graduates will develop understanding and competence in budgeting and finance in recreation, sport and tourism.

6. Graduates will develop understanding and competence in strategic planning and management in recreation, sport and tourism organizations.

7. Graduates will develop understanding and competence in applied evaluation and needs assessment methods in recreation, sport and tourism.

The instructor of each RST course collects direct and/or indirect evidence every year to ensure learning objectives are being met, and assessment results are used to improve student learning.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program
Description and
Requirements
Attach Documents

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/PublicAdminRules2017.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.

Revised programs RST side-by-side-curriculum-comparisons_Revised_Typo.docx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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

Thesis Option ~~**Other RequirementsNon-Thesis OptionOther Requirements**~~

Course List

Code	Title	Hours
RST 501	Foundations and Current Issues in Recreation, Sport & Tourism	4
Select two of the following:		8
RST 512	Managing Recreation, Sport & Tourism Organizations	
RST 515	Marketing in RST	
RST 516	Financial Management and Budgeting in Recreation, Sport & Tourism	
Select one Option Area Course from:		4
RST 502	Critical Issues Recreation Mgt	
RST 520	Critical Issues Sport Mgt	
RST 530	Critical Issues Tourism Mgt	
Additional Coursework		
(500 or 400 level grad credit courses outside of RST chosen in consultation with the advisor)		
Support Option		8
Research Methods		8
RST 599	Thesis Research	4
Total Hours		36

Other Requirements

Grad Other Degree Requirements

Requirement	Description
Other requirements may overlap	
Minimum Hours Overall Required Within the Unit:	12 at the 500 level
Minimum 500-level Hours Required overall:	16
Minimum GPA:	3.0

Non-Thesis Option

Course List

Code	Title	Hours

Code	Title	Hours
Core Coursework:		28
RST 501	Foundations and Current Issues in Recreation, Sport & Tourism	4
RST 504	Applied Evaluation and Needs Assessment in RST	4
RST 512	Managing Recreation, Sport & Tourism Organizations	4
RST 515	Marketing in RST	4
RST 516	Financial Management and Budgeting in Recreation, Sport & Tourism	4
RST 519	Strategic Management in RST	4
Select one Option Area Course from:		4
RST 502	Critical Issues Recreation Mgt	
or RST 520	Critical Issues Sport Mgt	
or RST 530	Critical Issues Tourism Mgt	
~~Additional Coursework~~		~~12~~
Additional Coursework (500 or 400 level grad credit courses outside of RST chosen in consultation with the advisor)		8
Total Credit Hours		36

Other Requirements

Grad Other Degree Requirements

Requirement	Description
Other requirements may overlap	
Minimum Hours Overall Required Within the Unit:	12 at the 500 level
Minimum 500-level Hours Required overall:	16
Minimum GPA:	3.0

Corresponding Degree	MS Master of Science

Program Features

Academic Level	Graduate
Does this major have transcripted concentrations?	No

What is the typical time to completion of this program?
1.5 years

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

What is the required GPA?	3.0
CIP Code	310101 - Parks, Recreation, and Leisure Studies.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is available:

On Campus and Online - 2 program types. Students can receive the entire program either on campus or online. Students can choose to take courses in either modality.

Describe the use of this delivery method:

The campus-based MS program is delivered in person through on campus 16-week synchronous courses taught by RST Faculty.
The online MS program is delivered online with 8-week asynchronous courses taught by RST faculty.

Admission Requirements

Desired Effective Admissions Term

Is this revision a change to the admission status of the program?

No

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 this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

N/A

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

No

budgetary implications for this revision?

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?

This minor revision has no impact financially on RST. There are no foreseen budgetary implications to the proposed minor change in the MS Program that will require additional financial support. The number of faculty in RST is sufficient to handle the anticipated demand for the additional course.

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)

Graduate Base Tuition for on campus & Base+Differential Rate for online

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

N/A

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.

N/A

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 421 10-31-2024.docx
Banner/Codebook Name	MS: Rec,Sport,Tourism -UIUC
Program Code:	10KS4043MS & 10KS4043MSU

Minor Code	Conc Code	Degree Code	MS	Major Code
4043				

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (10/31/24 11:33 am):** U Program Review comments attached in DMI Documentation section. **Mary Lowry (lowry) (10/31/24 11:53 am):** Rollback: Please see comments

attached.

Mary Lowry (lowry) (11/07/24 2:45 pm): No additional U Program Review comments.

Allison McKinney (agrindly) (11/15/24 10:42 am): Administratively Approved

Key: 421

Date Submitted: 09/30/24 4:02 pm

Viewing: **1PKS6126GCRU : Compensation Best Practices, GCRT (online)**

Last approved: 06/12/24 11:42 am

Last edit: 11/21/24 10:02 am

Changes proposed by: Eden Haycraft Smothers

Catalog Pages Using this Program	Compensation Best Practices, CERT

Proposal Type:

In Workflow

1. **U Program Review**
2. **1568 Head**
3. **LG Dean**
4. **University Librarian**
5. **Grad_College**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DOE
15. DMI

Approval Path

1. 10/15/24 9:24 am Donna Butler (dbutler): Approved for U Program Review
2. 10/31/24 1:49 pm Becky Barker (ebarker): Approved for 1568 Head
3. 10/31/24 1:50 pm Lynne Hoveln (lhoveln): Approved for LG Dean
4. 11/14/24 11:57 am Claire Stewart (clairest): Approved for University Librarian
5. 11/15/24 10:42

am
Allison McKinney (agrindly): Approved for Grad_College
6. 11/15/24 2:09 pm Suzanne Lee (suzannel): Approved for COTE Programs
7. 11/21/24 6:23 am Brooke Newell (bsnewell): Approved for Provost

History

1. Jun 7, 2022 by Eden Haycraft Smothers (ehaycra)
2. Sep 21, 2022 by Mary Lowry (lowry)
3. Jun 12, 2024 by Emily Stuby (eastuby)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Compensation Best Practices, GCRT (online)	
Diploma Title	Graduate Certificate in Compensation Best Practices	
Sponsor College	Labor & Empl. Relations, School of	
Sponsor Department	Labor & Employment Relations	
Sponsor Name	Eden Haycraft Smothers	
Sponsor Email	ehaycra@illinois.edu	
College Contact	Eden Haycraft Smothers	College Contact

Email	ehaycra@illinois.edu
College Budget Officer	Wyatt Martin
College Budget Officer Email	wjmartin@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.

Eden Haycraft (ehaycra@illinois.edu), Becky Barker (ebarker@illinois.edu), Amit Kramer (kram@illinois.edu)

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Graduate Certificate in Compensation Best Practices in the School of Labor and Employment Relations and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	Below are the changes outlined in the revision. 1. Changing the requirement from 3 required courses that students must take to be a choice from a list of 5 courses where students select 3 courses. 2. Adding LER 543 and LER 535 to the list of course choices. 3. Adding an updated statement in the Program of Study table regarding the coursework requirements and what requirements the certificate courses will fulfill in the master's if an individual decides to apply for the master's following a certificate. 4. Update on how the learning objectives are assessed. 5. Update to admissions requirements as we no longer have an 'interview' with applicants. 6. Update time to completion.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

Below outlines the justification for each of the outlined changes above.

1. Expanding course options will enable students to complete each certificate more quickly, resulting in a shorter overall program duration. This adjustment will help align our certificates with those offered by competing institutions. Currently, completing a certificate can take one to three semesters, with three semesters often being too lengthy. With the new course choices, students could finish the certificate in just one semester, benefiting those who need to expedite their education. Previously, the certificate was only available for completion in one semester in the spring semester, forcing those who missed the application deadline to wait for future offerings or take courses over multiple terms, which affected their access to financial aid. While the certificate programs qualify for financial aid, students must enroll in at least two courses per semester. By providing more course options, we can enhance financial aid opportunities for students. One of the main challenges LER faces when speaking with prospective certificate students is the duration of completion. This shorter completion time was also identified as an area for improvement when we had our programs evaluated by Hanover Research, which highlighted opportunities to make our programs more appealing.
2. Additional courses will allow students to pursue more than one certificate even if the certificates have an overlapping course. Currently, students are unable to pursue the Fundamentals of Human Resources and Compensation Best Practices certificates as they both require LER 561 Compensation Systems. The two additional courses added within the revision (LER 543 and LER 535) were identified by faculty as courses that could assist in building a foundation for compensation systems.
3. The Program of Study table needed revisions to accurately reflect the course additions and which master's program requirements would be fulfilled by the certificate offerings in case individuals want to explore the master's program in the future. The credit hours required to complete the certificate remains unchanged (12 total credit hours).
4. There were new questions asked regarding assessment of learning objectives that we answered on the revision.
5. LER realized that instead of using the word 'interview' we would conduct short informal info sessions with each applicant that will allow the applicant to ask questions regarding the certificate, course offerings, and what they can expect from engaging in the certificate. When listing this as an 'interview' we felt it was providing a barrier to entry that LER wants to avoid. A new statement is not needed as the informal info session is not a requirement.
6. Time to completion has improved for this certificate to allow for more flexibility for learners. Certificate students can now complete the Compensation Best Practices certificate in a maximum of 22 weeks whereas it could take up to 24 weeks previously without quicker options. The learner will have multiple opportunities to complete the certificate in 16 weeks.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Below is a subset of learning outcomes from our MHRIR degree program. These outcomes are specific to the Compensation Best Practices Certificate. LER utilized HRCI's Human Resources Body of Knowledge to inform our learning objectives and has recently (January 2022) received "exceeds expectations" score from the Office of the Provost Learning Outcomes Assessment of its MHRIR degree program.

1. Students will apply Business Management and Strategy to shape immediate and long-term HR activities, practices, and policies. Students will critically examine the complex link between strategy and business practices, understand and apply workforce metrics to drive decision-making, and apply a strategic lens to international human resources.
2. Students will understand the structural elements of compensation system design and evaluate an organization's Compensation and Benefits structure relative to market forces, union agreements, and legal requirements.
3. Students will apply and adhere to statutory and legal requirements when administering HR policies and procedures and employ Risk Management strategies to protect the employer from loss and liability and comply with labor law.
4. To support Human Resource Development, students will support organizational priorities by managing employee performance through evaluating gaps between employee performance and the desired state, building programs to address these gaps, and designing strategies for motivating employees.
5. Students will be able to use critical thinking and problem-solving skills to act strategically when making decisions in business and in life.

We have been assessing the learning outcomes through two different strategies. One being ICES evaluations at the end of the course to assess their overall course experience. We also do a sperate assessment that examines if program expectations were met in terms of content and to determine areas of improvement. This is often sent to students within two months of completing the program.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

The learning outcomes are assessed at the completion of each course through ICES evaluations. They are assessed again upon completion of the certificate program through a department specific evaluation distributed through Qualtrics.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Letter grades are provided for each assignment as well as at the completion of each course.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

LER monitors course ratings each semester and connects with instructors that score lower than satisfactory on the evals. Aside from discussing formal course evaluations, LER student advisors also synthesize feedback provided informally through appointments to instructors as a way to continuously improve the course.

Program Description and Requirements Attach Documents

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/PublicAdminRules2017.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.

Revised programs Side by Side_Compensation Best Practices.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

Certificate Program Website: https://ler.illinois.edu/online-human-resources-certificate-program/

School Faculty: https://ler.illinois.edu/faculty/

Program Contact: Eden Haycraft Smothers

Email: ehaycra@illinois.edu

Program Overview:
The online certificate program consists of a variety of tracks and each track has three courses (12 credit hours total, four credit hours per course). Each course in the certificate program is either six or eight weeks long. You can choose to engage in one or more certificate program tracks. Once you have received one or more certificates, and decide you are interested in the full Master of Human Resources and Industrial Relations (MHRIR) program, you are able to apply for the online master's program.

Each certificate program track takes between 5 ~~7~~ to 10 months to complete.

How do I know if the certificate program is for me?

Are you….

-working in HR with no HR background?

-employed by an organization that provides tuition reimbursement, but the reimbursement amount isn't equivalent to a full degree program?

-seeking to gain more knowledge in HR but either unable to or prefer not to attend graduate school?

-currently in HR and seeking to freshen-up your knowledge? This group may include, for example, individuals who started in HR, left HR for different reasons or even left the labor force.

-seeking to enter the HR field or change positions within your organization to HR, but do not want to commit/can't commit to a full degree?

-an individual who wants to know more about HR in general prior to embarking on a full degree program?

If you answered 'yes' to one or more of these questions, then this certificate program may be the perfect fit for you.

What is required to apply for one of these certificate programs?

Please note all applicants must have received a bachelor's degree prior to starting one of our certificate program tracks.

-Application
-Resume
-Official Transcripts
-English Proficiency Exam for international students

Compensation Best Practices Certificate Overview: ~~-Phone Interview – Contacted after application is reviewed for a phone conversation regarding interest in the certificate program.~~

~~Compensation Best Practices CertificateOverview:~~Develop skills for the negotiation process as the interactive basis for union-management relations; conflict and conflict resolution as part of the negotiating process; wage and other effects of collective bargaining. Learn about hiring, promotion, evaluation, discrimination, raiding, job definition, pay schemes, benefits, and design of work.

Statement for Programs of Study Catalog

Graduation Requirements

~~Minimum Cumulative GPA:~~

Minimum Cumulative GPA: 2.75

Minimum hours required for certificate completion: 12 hours

~~2.75Minimum hours required for certificate completion: 12 hours~~

Students who have successfully completed the *Compensation Best Practices* certificate may use the certificate courses to satisfy the following degree requirements, provided they apply and are admitted to the degree program:

8 to 12 hours of core coursework requirements and/or 4 elective course credits of the MHRIR degree program. ~~program~~ Certificate may fulfill ~~fulfills~~ the following distribution requirements: Labor Markets and Employment, Union Management and Labor Relations Policy, and Human Resource ~~HR~~ Management and Organization Behavior

Students in the certificate program will choose three out of the five course options listed below. ~~Behavior~~ Students will need to complete 12 credit hours total to be awarded a certificate. The courses do not need to be taken in any particular order.

Course List

~~Code~~	~~Title~~	~~Hours~~
~~LER 561~~	~~Compensation Systems~~	~~4~~
~~LER 542~~	~~Collective Bargaining~~	~~4~~
~~LER 545~~	~~Economics of Human Resources~~	~~4~~
~~Total Hours~~		~~12~~

Course List

Code	Title	Hours
LER 561	Compensation Systems	4
LER 542	Collective Bargaining	4
LER 545	Economics of Human Resources	4
LER 543	Workplace Dispute Resolution	4
LER 535	Negotiation Principles in HR Context	4

Corresponding Degree	GCRT Graduate Certificate

Program Features

Academic Level	Graduate
Does this major have transcripted concentrations?	No

What is the typical time to completion of this program?

22 weeks ~~6 months~~

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

12

What is the required GPA?	2.75
CIP Code	521002 - Labor and Industrial Relations.

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Delivery Method

This program is available:

Online Only - The entire program is delivered online, students are not required to come to campus.

Describe the use of this delivery method:

The program is hybrid synchronous and asynchronous. Each course has a required, once a week two-hour live Zoom session where students gather with their peers and the instructor. These live zoom sessions include lectures, activities, students' presentations, and other interactions involving the course content.

Admission Requirements

Desired Effective Admissions Term	Spring 2025

Is this revision a change to the admission status of the program?

No

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.

To apply to the certificate program within LER, prospective students must submit an updated resume and official transcripts. In order to qualify for the certificate, one must have completed an undergraduate degree. Some certificates require an undergraduate statistics course in order to proceed through the program. ~~Following the application an interview is setup with the Associate Director of Graduate Online Programs to discuss program fit and the applicant'sbackground.An admissions decision is made after the interview with thecandidate.~~If a certificate student wants to pursue the master's degree following the completion of a certificate, they must then submit an application for the MHRIR program. That application would then require a personal statement along with three letters of recommendation. Certificate students can ask up to two of their instructors from the LER program to write letters for their master's application.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

The revision will increase enrollment and campus graduate certificates awarded by allowing for more course options which will provide more opportunities to start the program at various times throughout the year and flexibility regarding how soon the certificate can be completed.

Estimated Annual Number of Degrees Awarded

Year One Estimate	3-7	5th Year Estimate (or when fully implemented)	8

What is the matriculation term for this program? Spring/Summer/Other

Please give an explanation of why fall matriculation is not applicable:

Students can join this certificate program in either Fall, Spring or Summer terms.

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?

All certificate courses ~~students~~ are a part of the master's program, so no additional costs will be added through faculty or advisors until the program grows substantially in which case the tuition dollars will cover program expenses since our online programs are self-supporting.

Will the unit need to seek campus or other external resources?

No

Attach letters of support

Letter of Impact_Library.pdf

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)

MHRIR online credit hour rate

Are you seeking a change in the tuition rate or differential for this program?

No

Is this program requesting self-supporting status?

Yes

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

The additional courses added to the certificate program are already a part of the master's curriculum and will not come with additional faculty or departmental costs. LER his not concerned about the class sizes growing too large from this adjustment.

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.

The text provided below is the response from LER's library specialist, Mandi Arlain. The full conversation can be found in the attachments under "Letter of Impact_Library".

"I have reviewed the information shared for the four certificate tracks offered through LER. As previously noted, given the program's current structure and enrollment numbers, the impact on library resources is expected to be minimal.

The library already has a solid collection in most areas covered by the program's course descriptions, and as a result of receiving this CIM-P proposal, I will now also keep an eye out for current and upcoming publications on these topics when purchasing for our collection. In addition to the resources found through the library's catalog, several library databases also support these certificates, including but not limited to: Human Resources Abstracts, Bloomberg Law and Nexis Uni. Students will also have access to an extensive range of related online journals, current newspapers, and video/media content.

It's also worth mentioning that professors often benefit from collaborating with us to create a curated list of relevant library resources tailored to their specific courses in the form of a course-specific LibGuide. At the very least, they should review our collection or share their reading lists with us in advance to ensure the library has access to the necessary course materials when needed.

Thanks again for contacting the library and we're here to assist with any additional questions or concerns you may have."

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 1121 10-14-2024.docx HLC Compensation Best Practices,GCRT Submission Confirmation_ Screening Form for Changes to Existing Programs.pdf
Banner/Codebook Name	GCRT:CompBestPractice ONL-UIUC
Program Code:	1PKS6126GCRU

Minor Code	Conc Code	Degree Code	GCRT	Major Code
6126				

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (10/14/24 4:44 pm):** U Program Review comments attached in DMI Documentation section. **Allison McKinney (agrindly) (11/15/24 10:42 am):** Administratively Approved

Key: 1121

Date Submitted: 06/21/24 2:24 pm

Viewing: **5407 : Learning Design & Leadership - Floating (on campus & online)**

Last approved: 10/17/23 11:45 am

Last edit: 11/21/24 10:03 am

Changes proposed by: Laura Ketchum

Catalog Pages Using this Program	Learning Design & Leadership Concentration

Proposal Type:

In Workflow

1. **U Program Review**
2. **1760 Committee Chair**
3. **1760 Head**
4. **KN Committee Chair**
5. **KN Dean**
6. **University Librarian**
7. **Grad_College**
8. **COTE Programs**
9. **Provost**
10. **Senate EPC**
11. Senate
12. U Senate Conf
13. Board of Trustees
14. IBHE
15. HLC
16. DOE
17. DMI

Approval Path

1. 07/01/24 2:58 pm
   Donna Butler (dbutler):
   Approved for U Program Review
2. 07/01/24 4:57 pm
   Lorenzo Baber (ldbaber):
   Approved for 1760 Committee Chair
3. 07/08/24 11:53 am
   Laura Ketchum (ketchum):
   Approved for 1760 Head
4. 09/03/24 12:24 pm
   Liv Thorstensson

Davila (livtd): Approved for KN Committee Chair
5. 11/07/24 1:54 pm Karla Moller (kjmoller): Approved for KN Dean
6. 11/14/24 11:58 am Claire Stewart (clairest): Approved for University Librarian
7. 11/15/24 10:42 am Allison McKinney (agrindly): Approved for Grad_College
8. 11/15/24 2:10 pm Suzanne Lee (suzannel): Approved for COTE Programs
9. 11/21/24 6:23 am Brooke Newell (bsnewell): Approved for Provost

History

1. Sep 11, 2020 by Deb Forgacs (dforgacs)
2. Oct 17, 2023 by Laura Ketchum (ketchum)

Concentration (ex. Dietetics)

This proposal is for a:

Revision

Administration Details

Official Program Name	Learning Design & Leadership - Floating (on campus & online)
Diploma Title	
Sponsor College	Education
Sponsor Department	Education Policy, Organization and Leadership
Sponsor Name	Yoon Pak
Sponsor Email	yoonpak@illinois.edu
College Contact	Lori Fuller
College Contact Email	harvey1@illinois.edu
College Budget Officer	Amanda Brown
College Budget Officer Email	acbrown1@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.

Laura Ketchum ketchum@illinois.edu

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Fall 2024

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Concentration in Learning Design & Leadership in the College of Education and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.

Revising concentration coursework to add EPOL 479.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

Yes

Why are these changes necessary?

Expands concentration course offering to cover AI in learning management systems and other educational tools.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

- Students will be able to create engaging learning environments by integrating new media technologies.
- LDL encourages students to be active designers of their own knowledge.
- Students use new digital media to enhance the ways in which they learn and understand, thus improving the learning process.
- Address the challenges of differentiating instruction to meet the needs of diverse learners.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

The administration of assessment will be conducted with a comprehensive and systematic approach. The goal of our assessment is to inform the continuous improvement of our curricular and instructional activities. Our assessment activities are described below.
Administration of Learning Outcomes Assessment

Department: Ensure the learning outcomes at department level align with campus/ college policies, operational resources, strategic trajectory, and faculty expertise. Once a month during department leadership meeting
- Student input
- Faculty input
- College Academic Program Committee
- Campus policies

Program : Ensure the learning outcomes at program level align with departmental policies and operational capacities Once a month during department GPC meeting (AY)
- Student input
- Faculty input
- Departmental Graduate Program Committee (GPC)

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Guided by our Learning Outcomes, in what areas and to what extent are the students learning what they should learn? From Formal Learning: Students' GPAs, quality of course deliverables, publications in peer-reviewed scholarly and trade publications, awards and scholarships received by students, course evaluations, and feedback to the faculty and department; students' pass-rates on Illinois State Board of Education exams for administrative endorsement
From Non-Formal and Informal Learning: Students' initial employment placement upon graduation, students' mid-term career paths, students' participation and contribution to disciplinary scholarly and professional organizations by holding offices or providing services

In what areas and to what extend are doctoral students conducting high quality scholarly research?
- Number of students' publications and presentations in disciplinary areas of research
- Potential impact of students' publications and presentations in disciplinary areas of research

In what areas and to what extend are students collaborating with multidisciplinary areas of concentrations?
- Students' professional and academic affiliations with disciplinary areas of scholarly research or advanced practices
- Students' self-identification with EPOL concentrations
- Number of students with coursework from multiple concentrations

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

EPOL's Graduate Programs Committee and unit leadership will review assessment results on an annual basis and adjust coursework and instruction as necessary. We will conduct review of instructor ICES scores and when applicable, consult with instructors to gain additional teaching support and resources. EPOL also has a mechanism for peer evaluation of teaching for faculty preparing for 3rd reviews and promotion (for tenure-track, tenured, and specialized faculty).

Program Description and Requirements Attach Documents

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/PublicAdminRules2017.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.

Revised programs LDL concentration revision proposal side by side 6-21-24.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

Learning Design & Leadership (LDL) provides educators and training/learning development professionals the opportunity to learn how to create more engaging learning environments by integrating new media technologies. LDL encourages students to be active designers of their own knowledge, in contrast to old teaching, in which knowledge was handed down to them. Students use new digital media to enhance the ways in which they learn and understand, thus improving the learning process. It also addresses the challenges of differentiating instruction to meet the needs of diverse learners.

Statement for Programs of Study Catalog

Course List

Code	Title	Hours
Required course:		4
EPOL 481	New Learning	
Select eight hours from the following courses:		8
EPOL 479	Machine Learning and Human Learning	
EPOL 486	New Media & Learner Differences	
EPOL 534	Assessment for Learning	

Code	Title	Hours
EPOL 580	Ubiquitous Learning	
EPOL 581	Knowledge, Learning and Pedagogy	
EPOL 582	New Media and Literacies	
EPOL 583	eLearning Ecologies	
ERAM 557	Meaning Patterns: Semiotics and the Interpretation of Meanings in Education and the Social Sciences	
EPSY 408	Learning and Human Development with Educational Technology	
EPSY 559	Advanced Learning Technologies	
EPSY 560	Technology and Educational Change	
Total Hours		12

Program Relationships

Corresponding Program(s):

Corresponding Program(s)
Education Policy, Organization & Leadership, CAS (on campus & off campus)
Education Policy, Organization & Leadership, EdD (on campus, off campus & online)
Education Policy, Organization & Leadership, EdM (on campus, off campus & online)
Education Policy, Organization & Leadership, MA
Education Policy, Organization & Leadership, PhD

Program Features

Academic Level: Graduate

Is This a Teacher Certification Program?
No

Will specialized accreditation be sought for this program?

No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

Delivery Method

This program is available:

On Campus and Online - 2 program types. Students can receive the entire program either on campus or online. Students can choose to take courses in either modality.

Describe the use of this delivery method:
This program is an on campus and online program. It is not off campus.

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

No changes

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?

no change

Will the unit need to seek campus or other external resources?

No

Attach letters of support

Is this program requesting self-supporting status?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

We have recently hired two additional tenure track faculty who will contribute to the LDL graduate concentration.

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.

Library collections, resources and services are sufficient to support this program.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	Learning Design and Leadership
Program Code:	5407

Minor Code	Conc Code	5407	Degree Code	Major Code

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	NA
Effective Date:	
Program Reviewer Comments	**Mary Lowry (lowry) (06/12/24 11:10 am):** Rollback: Please see email dated 6-12-24. **Mary Lowry (lowry) (06/20/24 5:06 pm):** Rollback: Please see email dated 6-20-24 for one small request. **Allison McKinney (agrindly) (11/15/24 10:42 am):** Administratively Approved

Date Submitted: 10/30/24 1:41 pm

Viewing: 10KM6127BS : Strategy, Innovation, and Entrepreneurship, BS

Last approved: 05/03/24 2:09 pm

Last edit: 11/21/24 10:03 am

Changes proposed by: Brian Fulton

Catalog Pages Using this Program	Strategy, Innovation, and Entrepreneurship, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1902 Committee Chair**
3. **1902 Head**
4. **KM Committee Chair**
5. **KM Dean**
6. **University Librarian**
7. **COTE Programs**
8. **Provost**
9. **Senate EPC**
10. Senate
11. U Senate Conf
12. Board of Trustees
13. IBHE
14. HLC
15. DMI

Approval Path

1. 11/01/24 12:45 pm
   Emily Stuby (eastuby): Approved for U Program Review
2. 11/01/24 2:19 pm
   Mark Wolters (mwolter): Approved for 1902 Committee Chair
3. 11/02/24 12:42 pm
   Carlos Torelli (ctorelli): Approved for 1902 Head
4. 11/12/24 10:31 pm
   Abhijeet Ghoshal (abhi): Approved

for KM Committee Chair
5. 11/13/24 10:48 pm
   Nerissa Brown (nerissab): Approved for KM Dean
6. 11/14/24 11:55 am
   Claire Stewart (clairest): Approved for University Librarian
7. 11/14/24 12:12 pm
   Suzanne Lee (suzannel): Approved for COTE Programs
8. 11/21/24 6:23 am
   Brooke Newell (bsnewell): Approved for Provost

History

1. May 24, 2019 by Deb Forgacs (dforgacs)
2. Apr 16, 2021 by Brian Fulton (bfulton)
3. Jun 30, 2022 by Brian Fulton (bfulton)
4. May 3, 2024 by Brian Fulton (bfulton)

Major (ex. Special Education)

This proposal is for a:

Revision

Administration Details

Official Program Name	Strategy, Innovation, and Entrepreneurship, BS
Diploma Title	Bachelor of Science in Strategy, Innovation, and Entrepreneurship
Sponsor College	Gies College of Business
Sponsor Department	Business Administration
Sponsor Name	Carlos Torelli
Sponsor Email	ctorelli@illinois.edu
College Contact	Nehemiah Scott
College Contact Email	nehemiah@illinois.edu
College Budget Officer	Gina Oleynichak
College Budget Officer Email	goleynic@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.

Brian Fulton

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Fall 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Bachelor of Science in Strategy, Innovation, and Entrepreneurship in the Gies College of Business

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.

The special topics section of FIN 490 listed as an elective in this major has since received a permanent course number of FIN 380. We are only updating this one class in the degree requirements for this program.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

These changes are necessary to accurately represent the DARS records for students in the major.

Breakout of how a student gets 40 hours of 300-, 400- level coursework and/or 200 level with 2 or more preq
a. All Gies UG students have 24 required upper division hours in the business core:
i. ACCY 202 – prereq of ACCY 201 which has a prereq of ECON 102/103 – 3 hours
ii. BADM 211 – prereqs of CS105 and BADM 210 - 3 hours
iii. BUS 301 – 3 hours
iv. BUS 401 – 3 hours
v. BADM 300 – 3 hours
vi. BADM 310 – 3 hours
vii. BADM 320 – 3 hours
viii. BADM 449 – 3 hours

b. The Strategy, Innovation, and Entrepreneurship major has at least another 25 hours of upper division courses.
i. BADM 341 - 3 hours
ii. BADM 346 - 3 hours
iii. BADM 367 - 3 hours
iv. BADM 446 - 4 hours
v. at least 12 hours of skill-building and/or experiential electives at 300 or 400 level

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

Yes

Courses outside of the sponsoring department/ interdisciplinary departments	~~MATH 115~~ - ~~Preparation for Calculus~~ ~~MATH 220~~ - ~~Calculus~~ ~~MATH 221~~ - ~~Calculus I~~ ~~MATH 231~~ - ~~Calculus II~~ ~~MATH 234~~ - ~~Calculus for Business I~~ ~~STAT 100~~ - ~~Statistics~~ FIN 490 - Special Topics in Finance FIN 380 - Entrepreneurship Thru Acquistn
Please attach any letters of support/ acknowledgement for any Instructional Resources consider faculty, students, and/or other impacted units as appropriate.	Letter of Acknowledgement and Support_FIN.pdf

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Discipline-based competency: Students will develop knowledge and skills for (1) analyzing, formulating, and implementing strategies for new and established organizations, (2) managing technology and innovation, and (3) developing and growing new ventures.
Problem solving: Students are expected to solve complex business problems by integrating the knowledge from three core domains in strategic management, technology and innovation management, and entrepreneurship.
Strategic leadership: Students will develop skills and perspectives for organizing and directing the activities of others to pursue organizational goals.
Communication: Students will demonstrate competencies to communicate effectively, both verbally and in writing.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program Description and Requirements Attach Documents

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/PublicAdminRules2017.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.

Revised programs

Sample Sequence_Strategy, Innovation, and Entrepreneurship BS.docx
Side by Side_Strategy, Innovation, and Entrepreneurship BS.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

The Strategy, Innovation, and Entrepreneurship major examines how business opportunities are identified and exploited for society through existing and new organizations. Students will learn how to generate and evaluate ideas, develop those ideas into products and services, assemble resources (including finances), mitigate risks, and lead organizations that meet human needs. The degree prepares students to work within existing organizations as well as to create new organizations, both for-profit and not-for-profit.
In addition to the SIE Major requirements, students must also fulfill the University's General Education requirements and the College of Business Core Courses requirements (for more detail, refer to the Gies College of Business Undergraduate Section).

Statement for Programs of Study Catalog

Graduation Requirements
Minimum hours required for graduation: 124 hours.

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements

Follows the campus General Education (Gen Ed) requirements. Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List		
Code	Title	Hours
Composition I		4-6
Advanced Composition		3
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
Social & Behavioral Sciences (6 hours)		6
fulfilled by ECON 102 and ECON 103		
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: U.S. Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
fulfilled by CS 105; and MATH 115, MATH 220, MATH 221, MATH 231, MATH 234, or STAT 100		
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Business Core Requirements

Course List		
Code	Title	Hours
ACCY 201	Accounting and Accountancy I	6
& ACCY 202	and Accounting and Accountancy II	
BUS 101	Professional Responsibility and Business	3
BUS 201	Business Dynamics	3
BUS 301	Business in Action	3
BUS 401	Crafting Your Purpose in Business	3
BADM 210	Business Analytics I	6
& BADM 211	and Business Analytics II	
BADM 275	Fundamentals of Operations Management	3
BADM 300	The Legal Environment of Bus	3
BADM 310	Mgmt and Organizational Beh	3
BADM 320	Principles of Marketing	3
BADM 449	Business Policy and Strategy	3
CMN 101	Public Speaking	3
CS 105	Intro Computing: Non-Tech	3
ECON 102	Microeconomic Principles	6
& ECON 103	and Macroeconomic Principles	
FIN 221	Corporate Finance	3
Business Core Math		3-5
Choose one course from list below:		
MATH 115	Preparation for Calculus	
MATH 220	Calculus	

Code	Title	Hours
MATH 221	Calculus I	
MATH 231	Calculus II	
MATH 234	Calculus for Business I	
STAT 100	Statistics	
Minimum Total Hours		57

Course List

Code	Title	Hours
Strategy, Innovation, and Entrepreneurship, BS Major Core Requirements and Electives		
BADM 341	Foundations of Strategic Management	3
BADM 346	Introduction to Entrepreneurship	3
BADM 367	Mgmt of Innov and Technology	3
BADM 446	Entrepreneurship: New Venture Creation	4
Skill-Building Elective Choices (minimum of 9 hours):		9-15
BADM 311	Leading Individuals and Teams	3
BADM 312	Designing and Managing Orgs	3
BADM 313	Strategic Human Resource Management	3
BADM 314	Leading Negotiations	3
BADM 322	Marketing Research	3
BADM 323	Marketing Communications	3
BADM 329	New Product Development	3
BADM 335	Supply Chain Management Basics	3
BADM 350	IT for Networked Organizations	3
BADM 351	Social Media Strategy	3
BADM 359	Business Problem Formulation and Solution	3
BADM 360	Digital Marketing	3
BADM 366	Product Design and Development	3
BADM 375	Operations Strategy	3
BADM 377	Project Management	3
BADM 383	Topics in International Business (Sec. J, Int'l Mergers and Acquisitions)	3
BADM 420	Advanced Marketing Management	3
BADM 447	Legal Issues in Entrepreneurship	4
FIN 423	Entrepreneurial Finance	3
FIN 424	Mergers and Acquisition	3
FIN 425	Private Equity/Venture Capital	3
FIN 433	Corporate Risk Management	3
FIN 464	Applied Financial Analysis	3
DTX 451	Introduction to Design Thinking	3
DTX 455	Design for Social Impact	3
Experiential Elective Choices		0-6
BADM 331	Making Things	3
BADM 357	Digital Making Seminar	3
BADM 420	Advanced Marketing Management	3
BADM 445	Small Business Consulting	4
BADM 463	iVenture Accelerator Seminar I: Topics in Entrepreneurship	3
BADM 464	iVenture Accelerator Seminar II: Topics in Entrepreneurship	3
SOCW 321	Social Entre & Social Change	3
SOCW 445	Social Enterprise Lab	3

Code	Title	Hours
FIN 380	Entrepreneurship through Acquisition	2
FIN 422	Cases in Corporate Finance	3
~~FIN 490~~	~~Special Topics in Finance (Entrepreneurship through Acquisition)~~	~~2~~
Other experiential entrep. or business/product dev. course with departmental approval		
Total Hours		28

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?
124

CIP Code: 520701 - Entrepreneurship/ Entrepreneurial Studies.

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

Is this revision a change to the admission status of the program?

No

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 this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

This revision will have no change on the enrollment. We are simply giving the permanent class number to a course that has already existed.

Estimated Annual Number of Degrees Awarded

Year One Estimate	see attached.	5th Year Estimate (or when fully implemented)	see attached.

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)

Business Differential

Are you seeking a change in the tuition rate or differential for this program?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

This revision will have no change on the faculty resources. We are simply giving the permanent class number to a course that has already existed.

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.

This revision will have no change on the library resources. We are simply giving the permanent class number to a course that has already existed.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	BS:Strategy, Innov & Ent-UIUC
Program Code:	10KM6127BS

Minor Code	Conc Code	Degree Code	Major Code
6127		BS	

Senate Approval Date	
Senate Conference Approval Date	

BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Program Reviewer Comments	**Brooke Newell (bsnewell) (10/23/24 1:41 pm):** Rollback: Per discussion **Brooke Newell (bsnewell) (10/23/24 4:03 pm):** Rollback: Per request from Brian **Brooke Newell (bsnewell) (11/01/24 10:10 am):** No U Program Review Comments

Key: 517

Date Submitted: 10/10/24 11:55 am

Viewing: 10KP0408BS : Bioengineering, BS

Last approved: 09/30/24 11:34 am

Last edit: 11/27/24 9:16 am

Changes proposed by: Maddie Darling

Catalog Pages Using this Program	Bioengineering, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1343 Head**
3. **KP Committee Chair**
4. **KP Dean**
5. **University Librarian**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

Approval Path

1. 10/11/24 1:47 pm
   Donna Butler (dbutler):
   Approved for U Program Review
2. 10/14/24 8:50 pm
   Rebecca Reck (rreck): Approved for 1343 Head
3. 11/19/24 11:21 am
   Keri Pipkins (kcp):
   Approved for KP Committee Chair
4. 11/19/24 11:26 am
   Cindy Pruitt (cpruitt):
   Approved for KP Dean
5. 11/21/24 2:32 pm
   Claire Stewart (clairest):

Approved for University Librarian
6. 11/21/24 6:09 pm Suzanne Lee (suzannel): Approved for COTE Programs
7. 11/26/24 2:29 pm Brooke Newell (bsnewell): Approved for Provost

History

1. Dec 13, 2018 by Deb Forgacs (dforgacs)
2. Apr 9, 2019 by Deb Forgacs (dforgacs)
3. Jul 23, 2019 by Brooke Newell (bsnewell)
4. Jul 31, 2019 by Deb Forgacs (dforgacs)
5. Aug 12, 2019 by Deb Forgacs (dforgacs)
6. Jan 27, 2020 by Maddie Darling (darling4)
7. Apr 2, 2020 by Maddie Darling (darling4)
8. Apr 16, 2021 by Maddie Darling (darling4)
9. Oct 8, 2021 by Brooke Newell (bsnewell)
10. Apr 5, 2022 by Maddie Darling (darling4)
11. Apr 7, 2023 by Maddie Darling

(darling4)
12. Oct 23, 2023 by Maddie Darling (darling4)
13. Sep 30, 2024 by Maddie Darling (darling4)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Bioengineering, BS		
Diploma Title	Bachelor of Science in Bioengineering		
Sponsor College	Grainger College of Engineering		
Sponsor Department	Bioengineering		
Sponsor Name	Maddie Darling		
Sponsor Email	darling4@illinois.edu		
College Contact	Katherine Freeman; Keri Carter Pipkins ~~Jonathan Makela~~	College Contact Email	katefree@illinois.edu; kcp@illinois.edu ~~jmakela@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.

Maddie Darling (darling4@illinois.edu), BIOE; Katherine Freeman (katefree@illinois.edu) GCOE; Keri Carter Pipkins (kcp@illinois.edu) GCOE ~~Maddie Darling (darling4@illinois.edu), BIOE~~

Does this program have inter-departmental administration?
No

Proposal Title

Effective Catalog	Fall 2025

Term

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Bachelor of Science in Bioengineering in the Grainger College of Engineering

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

No

Program Justification

Provide a brief description of what changes are being made to the program.

1. The five separate track elective categories have been merged into a single "technical electives" category, which will include all previously available track electives.

2. Track-specific recommended free electives have been excluded from the technical elective course list (SE 101, MCB 450, CHEM 442).

3. Duplicate courses have been eliminated from the technical elective course list.

4. BIOE 416: Biosensors has been removed.

5. Reorganized the technical elective course list in alphanumeric order.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1.This change is necessary because it gives students more flexibility to customize their course selections according to their specific educational goals, rather than being restricted to a single subdiscipline (track). By consolidating the electives, students can explore a broader range of subjects that align with their individual interests and career goals.

2. Since tracks have been eliminated, it is no longer appropriate to include track-specific free elective course recommendations (SE 101, MCB 450, CHEM 442) in the technical elective course list.

3. Previously, a course could be listed under multiple track elective areas. With the removal of tracks, each course will now only need to appear once in the technical elective category list.

4. BIOE 416: Biosensors has been removed to reduce redundancy, as it is already listed under the home department rubric, ECE 416: Biosensors.

5. Reorganizing the technical elective course list in alphanumeric order enhances clarity and accessibility for students and advisors. Alphanumeric order creates an easier user experience in locating courses quickly, reducing time spent searching through a disorganized list.

The 40 hours of upper-division classes for IBHE requirement are met by:
• 26 hours of 300 & 400 level classes individually specified in the Bioengineering Technical Core
o BIOE 476 (3 credit hours)
o BIOE 302 (3 credit hours)
o BIOE 303 (2 credit hours)
o BIOE 310 (3 credit hours)
o BIOE 360 (3 credit hours)
o BIOE 414 (3 credit hours)
o BIOE 415 (2 credit hours)
o BIOE 400 (4 credit hours)
o BIOE 420 (3 credit hours)
• 15 hours of 200 level coursework with 2 or more prerequisites in Foundational Mathematics and Science
o MATH 241 (4 credit hours) - prerequisites of MATH 231 and MATH 220 or 221
o MATH 285 (3 credit hours) - prerequisites of MATH 241, MATH 231 and MATH 220 or 221
o PHYS 211 (4 credit hours) - prerequisites of MATH 231 and MATH 220 or 221
o PHYS 212 (4 credit hours) - prerequisites of PHYS 211, MATH 241, MATH 231 and MATH 220 or 221

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?

Does this new program/proposed change result in the replacement of another program?

No

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

Yes

Courses outside of the sponsoring department/ interdisciplinary departments

~~CPSC 440 - Applied Statistical Methods I~~
SE 101 - Engineering Graphics & Design
MCB 450 - Introductory Biochemistry
CHEM 442 - Physical Chemistry I

Please attach any letters of support/ acknowledgement for any Instructional Resources consider faculty, students, and/or other impacted units as appropriate.

Letter of Acknowledgement_Industrial and Enterprise Systems Engineering.pdf
Letter of Acknowledgement_Chemistry.pdf
Letter of Acknowledgement_Molecular and Cellular Biology.pdf

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

The Bioengineering Program prepares graduates to achieve the following student outcomes by the time of graduation:

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.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program
Description and
Requirements
Attach Documents

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/PublicAdminRules2017.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.

Revised programs Side by Side_Bioengineering BS.xlsx

Sample Sequence_Bioengineering BS.docx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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 hours required for graduation: 128 hours.

Minimum Overall GPA: 2.0

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements

Follows the campus General Education (Gen Ed) requirements. Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List

Code	Title	Hours
Composition I		4-6
Advanced Composition		3
fulfilled by BIOE 400		
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
fulfilled by CHEM 102, CHEM 104, MCB 150, PHYS 211, PHYS 212		
Social & Behavioral Sciences (6 hours)		6
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
fulfilled by MATH 220 or MATH 221; and MATH 231, MATH 241, MATH 285, PHYS 211, PHYS 212; and CS 101 or CS 124		
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Major Requirements

Orientation and Professional Development

Course List

Code	Title	Hours
ENG 100	Grainger Engineering Orientation Seminar (External transfer students take ENG 300.)	1
BIOE 100	Bioengineering Seminar	1
BIOE 120	Introduction to Bioengineering	1
Total Hours		3

Foundational Mathematics and Science

Course List

Code	Title	Hours
CHEM 102	General Chemistry I	3
CHEM 103	General Chemistry Lab I	1
CHEM 104	General Chemistry II	3
CHEM 105	General Chemistry Lab II	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 285	Intro Differential Equations	3
PHYS 211	University Physics: Mechanics	4
PHYS 212	University Physics: Elec & Mag	4
Total Hours		30

Bioengineering Technical Core

Course List

Code	Title	Hours
BIOE 201	Conservation Principles Bioeng	3
BIOE 202	Cell & Tissue Engineering Lab	2
BIOE 205	Signals & Systems in Bioengrg	3
BIOE 206	Cellular Bioengineering	3
BIOE 210	Linear Algebra for Biomedical Data Science	3
BIOE 302	Modeling Human Physiology	3
BIOE 303	Quantitative Physiology Lab	2
BIOE 310	Computational Tools for Biological Data	3
BIOE 360	Transport & Flow in Bioengrg	3
BIOE 400	Bioengineering Senior Design	4
BIOE 414	Biomedical Instrumentation	3
BIOE 415	Biomedical Instrumentation Lab	2
BIOE 420	Intro Bio Control Systems	3
BIOE 476	Tissue Engineering	3
CHEM 232	Elementary Organic Chemistry I	4
CS 101	Intro Computing: Engrg & Sci	3
or CS 124	Introduction to Computer Science I	
MCB 150	Molec & Cellular Basis of Life	4
Total Hours		51

Technical ~~Track~~ Electives

Course List

Code	Title	Hours
~~Students are required to complete 15 hours of credit from one track area listed below.~~		~~15~~
~~Biomechanics Track~~		
~~Required courses:~~		
Students are required to complete 15 hours of credit from the course options listed below.		15
ABE 446	Biological Nanoengineering	3
~~BIOE 306~~	~~Biofabrication Lab~~	~~3~~
~~BIOE 424~~	~~Preclinical Molecular Imaging~~	~~3~~
~~BIOE 430~~	~~Intro Synthetic Biology~~	~~3~~

Code	Title	Hours
~~BIOE 432~~	~~Systems Biology: Uncovering Design Principles of Biological Networks~~	~~3~~
~~BIOE 434~~	~~Immunoengineering~~	~~3~~
~~BIOE 450~~	~~Introduction to Quantitative Pharmacology~~	~~3~~
~~BIOE 460~~	~~Gene Editing Lab~~	~~3~~
BIOE 306	Biofabrication Lab	3
~~BIOE 416~~	~~Biosensors~~	~~3~~
BIOE 424	Preclinical Molecular Imaging	3
BIOE 430	Intro Synthetic Biology	3
BIOE 432	Systems Biology: Uncovering Design Principles of Biological Networks	3
BIOE 434	Immunoengineering	3
~~BIOE 450~~	~~Introduction to Quantitative Pharmacology~~	~~3~~
BIOE 450	Introduction to Quantitative Pharmacology	3
BIOE 460	Gene Editing Lab	3
~~BIOE 461~~	~~Cellular Biomechanics~~	~~4~~
BIOE 461	Cellular Biomechanics	4
BIOE 479	Cancer Nanotechnology	3
~~BIOE 498~~	~~Special Topics (Regulatory Safety Issues in Bioengineering)~~	~~3~~
~~BIOE 498~~	~~Special Topics (Surgical Technologies)~~	~~3~~
BIOE 483	Biomedical Computed Imaging Systems	3
BIOE 484	Statistical Analysis of Biomedical Images	3
BIOE 485	Computational Mathematics for Machine Learning and Imaging	4
BIOE 486	Applied Deep Learning for Biomedical Imaging	3
~~BIOE 498~~	~~Special Topics (Regulatory Safety Issues in Bioengineering)~~	~~3~~
BIOE 487	Stem Cell Bioengineering	3
~~BIOE 498~~	~~Special Topics (Regulatory Safety Issues in Bioengineering)~~	~~3~~
BIOE 498	Special Topics (Technologies for Cancer Diagnosis and Therapy)	3
~~CHBE 472~~	~~Techniques in Biomolecular Eng~~	~~3~~
BIOE 498	Special Topics (Regulatory Safety Issues in Bioengineering)	3
BIOE 498	Special Topics (Surgical Techniques)	3
CHBE 471	Biochemical Engineering	3
CHBE 472	Techniques in Biomolecular Eng	3
CS 128	Introduction to Computer Science II	3
CS 225	Data Structures	4
~~Select the remaining 8 hours from the list below:~~		
~~BIOE 430~~	~~Intro Synthetic Biology~~	~~3~~
~~BIOE 432~~	~~Systems Biology: Uncovering Design Principles of Biological Networks~~	~~3~~
CS 411	Database Systems	3
CS 412	Introduction to Data Mining	3
CS 440	Artificial Intelligence	3
CS 446	Machine Learning	3 or 4
CS 465	User Interface Design	4
CS 466	Introduction to Bioinformatics	3
CS 498	Special Topics (Intro to Deep Learning)	3
ECE 210	Analog Signal Processing	4
ECE 310	Digital Signal Processing	3
ECE 311	Digital Signal Processing Lab	1
ECE 329	Fields and Waves I	3

Code	Title	Hours
ECE 365	Data Science and Engineering	3
ECE 380	Biomedical Imaging	3
ECE 416	Biosensors	3
ECE 417	Multimedia Signal Processing	4
ECE 418	Image & Video Processing	4
ECE 437	Sensors and Instrumentation	3
ECE 365	Data Science and Engineering	3
ECE 460	Optical Imaging	4
ECE 467	Biophotonics	3
ECE 472	Biomedical Ultrasound Imaging	3
ECE 473	Fund of Engrg Acoustics	3
ECE 480	Magnetic Resonance Imaging	3
ECE 481	Nanotechnology	4
ECE 490	Introduction to Optimization	3
ECE 498	Special Topics in ECE (Deep Learning in Hardware)	3
IE 310	Deterministic Models in Optimization	3
IE 330	Industrial Quality Control	3
IE 370	Stochastic Processes and Applications	3
ME 330	Engineering Materials	4
ME 481	Whole-Body Musculoskel Biomech	3
ME 482	Musculoskel Tissue Mechanics	3
ME 483	Mechanobiology	4
~~NPRE 461~~	~~Probabilistic Risk Assessment~~	~~3~~
ME 487	MEMS-NEMS Theory & Fabrication	4
~~NPRE 461~~	~~Probabilistic Risk Assessment~~	~~3~~
~~SE 423~~	~~Mechatronics~~	~~3~~
~~TMGT 461~~	~~Tech, Eng, & Mgt Final Project~~	~~4~~
~~Recommended Free Elective~~		
~~CHEM 442~~	~~Physical Chemistry I~~	~~4~~
MSE 403	Synthesis of Materials	3
~~MSE 404~~	~~Laboratory Studies in Materials Science and Engineering~~	~~1.5~~
MSE 404	Laboratory Studies in Materials Science and Engineering	1.5
MSE 450	Polymer Science & Engineering	3
MSE 457	Polymer Chemistry	3 or 4
~~MSE 470~~	~~Design and Use of Biomaterials~~	~~3~~
MSE 470	Design and Use of Biomaterials	3
MSE 473	Biomolecular Materials Science	3
~~MSE 474~~	~~Biomaterials and Nanomedicine~~	~~3~~
MSE 474	Biomaterials and Nanomedicine	3
~~ME 483~~	~~Mechanobiology~~	~~4~~
~~TMGT 461~~	~~Tech, Eng, & Mgt Final Project~~	~~4~~
~~Recommended free elective~~		
~~MCB 450~~	~~Introductory Biochemistry~~	~~3~~
~~Therapeutics Engineering Track~~		
~~Select 15 hours from the list below:~~		
MSE 480	Surfaces and Colloids	3
~~TMGT 461~~	~~Tech, Eng, & Mgt Final Project~~	~~4~~

Code	Title	Hours
~~Computational and Systems Biology Track~~		
~~Required courses:~~		
NPRE 461	Probabilistic Risk Assessment	3 or 4
~~SE 423~~	~~Mechatronics~~	~~3~~
~~TMGT 461~~	~~Tech, Eng, & Mgt Final Project~~	~~4~~
~~Imaging and Sensing Track~~		
~~Select 15 hours from the list below:~~		
~~BIOE 424~~	~~Preclinical Molecular Imaging~~	~~3~~
~~BIOE 432~~	~~Systems Biology: Uncovering Design Principles of Biological Networks~~	~~3~~
~~BIOE 434~~	~~Immunoengineering~~	~~3~~
~~BIOE 450~~	~~Introduction to Quantitative Pharmacology~~	~~3~~
~~BIOE 484~~	~~Statistical Analysis of Biomedical Images~~	~~3~~
~~BIOE 486~~	~~Applied Deep Learning for Biomedical Imaging~~	~~3~~
~~BIOE 498~~	~~Special Topics (Regulatory Safety Issues in Bioengineering)~~	~~3~~
~~BIOE 498~~	~~Special Topics (Surgical Techniques)~~	~~3~~
~~BIOE 498~~	~~Special Topics (Technologies for Cancer Diagnosis and Therapy)~~	~~3~~
SE 402	Comp-Aided Product Realization	3
SE 423	Mechatronics	3
TAM 211	Statics	3
TAM 212	Introductory Dynamics	3
TAM 251	Introductory Solid Mechanics	3
~~Select the remaining 6 hours from the below list:~~		
TAM 445	Continuum Mechanics	4
TMGT 461	Tech, Eng, & Mgt Final Project	4
~~Recommended free elective:~~		
~~SE 101~~	~~Engineering Graphics & Design~~	~~3~~
~~Cell and Tissue Engineering Track~~		
~~Select 15 hours from the list below:~~		
Free Electives		

Course List

Code	Title	Hours
Additional coursework, subject to the Grainger College of Engineering restrictions to Free Electives, so that there are at least 128 credit hours earned toward the degree.		9
Total Hours of Curriculum to Graduate		128

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 140501 - Bioengineering and Biomedical 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

Is this revision a change to the admission status of the program?

No

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.

No changes

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

This revision will have no impact on enrollment or degrees awarded.

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 No

this revision?

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?

No changes

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)

Engineering Differential

Are you seeking a change in the tuition rate or differential for this program?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

There will not be an impact on faculty resources, class size, teaching loads, or student-faculty ratios as a result of this revision.

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.

The proposal team consulted with Anna Liss Jacobsen and, based upon their input, determined that the Library’s resources, collections, and services are sufficient to meet the needs of the program outlined in this proposal.

EP Documentation

EP Control EP.25.035

Number	
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 112 Bioengineering, BS 10_10_2024.docx
Banner/Codebook Name	BS:Bioengineering - UIUC
Program Code:	10KP0408BS

Minor Code	Conc Code	Degree Code		Major Code
0408			BS	

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	NA
Effective Date:	
Program Reviewer Comments	**Brooke Newell (bsnewell) (09/30/24 4:06 pm):** Rollback: per discussion with Maddie **Brooke Newell (bsnewell) (10/10/24 9:50 am):** U Program Review Comments attached in the DMI Documentation section. **Brooke Newell (bsnewell) (10/10/24 10:06 am):** Rollback: per request by Maddie **Brooke Newell (bsnewell) (10/10/24 11:45 am):** Rollback: per discussion with Maddie **Brooke Newell (bsnewell) (10/11/24 1:37 pm):** No U Program Review Comments **Katherine Freeman (katefree) (11/08/24 11:48 am):** checked Review comments with proposal, all issues are addressed provided catalog will reflect the requested changes in review notes.

Date Submitted: 11/12/24 2:32 pm

Viewing: 10KT5201BS : Media and Cinema Studies, BS

Last approved: 02/29/24 9:08 am

Last edit: 11/27/24 9:16 am

Changes proposed by: Carrie Wilson

Catalog Pages Using this Program	Media & Cinema Studies, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1436 Committee Chair**
3. **1436 Head**
4. **KT Committee Chair**
5. **KT Dean**
6. **University Librarian**
7. **COTE Programs**
8. **Provost**
9. **Senate EPC**
10. Senate
11. U Senate Conf
12. Board of Trustees
13. IBHE
14. HLC
15. DMI

Approval Path

1. 11/18/24 12:57 pm
   Donna Butler (dbutler): Approved for U Program Review
2. 11/18/24 2:02 pm
   Derek Long (drlong): Approved for 1436 Committee Chair
3. 11/18/24 2:10 pm
   Cheryl Cole (clcole): Approved for 1436 Head
4. 11/19/24 3:18 pm
   Jenny Oyallon-Koloski (joyallon): Approved for KT Committee Chair
5. 11/19/24 4:35 pm

Katie Clark (keclark): Approved for KT Dean
6. 11/21/24 2:44 pm Claire Stewart (clairest): Approved for University Librarian
7. 11/21/24 6:09 pm Suzanne Lee (suzannel): Approved for COTE Programs
8. 11/26/24 2:29 pm Brooke Newell (bsnewell): Approved for Provost

History

1. Nov 17, 2021 by Katie Clark (keclark)
2. Apr 21, 2022 by Josh Heuman (jmheuman)
3. May 10, 2022 by Deb Forgacs (dforgacs)
4. Feb 29, 2024 by Derek Long (drlong)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Media and Cinema Studies, BS
Diploma Title	Bachelor of Science in Media and Cinema Studies
Sponsor College	Media, College of

Sponsor Department	Media & Cinema Studies
Sponsor Name	Derek Long and Carrie Wilson-Brown
Sponsor Email	drlong@illinois.edu; carrieaw@illinois.edu
College Contact	Katie Clark
College Contact Email	keclark@illinois.edu
College Budget Officer	
College Budget Officer Email	

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.

KT Dean

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Fall 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Bachelor of Science in Media and Cinema Studies in the College of Media

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief description of what changes are being made to the program.	(1) Added MACS 205: Introduction to Documentary to the history course options in the Critical Media Production track. (2) Added MACS 284: Animated Media from Mickey to GIFs to the history course options in the Critical Media Production track. (3) Added MACS 317: Media History to the history course options in the Critical Media

Production track.

(4) Added MACS 317: Media History to the history course options in the General track.

(5) Updated program of study to include general education requirements.

40 hours of Advanced Coursework
6 hours - Core Courses
3 hours - Capstone Course
3 hours - MACS Electives
28 hours - Free Electives

Please note that the side-by-side appears that general education requirements were added in the new curriculum. They are no different than the previous curriculum but have been added to the Program of Study table to reflect new campus guidelines.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

Yes

Why are these changes necessary?

(1) Adding MACS 205 allows Critical Media Production students an opportunity to explore the history of documentary film and offers flexibility in the track's history course offerings.

(2) Adding MACS 284 allows Critical Media Production students an opportunity to explore the history of animation and offers flexibility in the history course offerings.

(3) Adding MACS 317 allows Critical Media Production students an opportunity to survey media history and offers flexibility in the history course offerings.

(4) Adding MACS 317 allows students in the General track an opportunity to survey media history and offers flexibility in the history course offerings.

(5) Updated program of study to include general education requirements to align with updated campus guidelines.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Students in Media and Cinema Studies will be able to:

1. Demonstrate an understanding of media and cinema studies' subject areas, and their respective concepts, theories, and methods.

2. Demonstrate critical thinking skills.

3. Demonstrate an ability to identify and explain problems of social power and social justice across media products and processes.

4. Demonstrate the ability to successfully communicate research outcomes and/or creative expressions across a range of modalities.

5. Demonstrate the ability to collaborate successfully and inclusively on research and/or creative projects.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Students' learning outcomes will be assessed through individual assignments (papers, presentations, exams, and creative projects) as part of their required coursework in cinema studies, media studies, and/or media production methods, history, theory, and production.

Student will submit self-reflections in production courses to assess their individual performance when collaborating.

Student will submit peer reviews in production courses to offer peer feedback when collaborating.

External metrics (job placement statistics, alumni engagement) will be used to assess how our graduates are applying the knowledge and skills acquired from their major.

Students in Media and Cinema Studies are required to complete a 400-level capstone project. The instructor of the course will assess whether students are meeting the learning outcomes stated above. The department will review final projects or portfolios from these courses and make adjustments to courses and curriculum as necessary.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

Program Description and Requirements Attach Documents

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/PublicAdminRules2017.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.

Revised programs SampleSequence_MACS_FA25.pdf
MACS, BS_SideBySide_FA25.xlsx

Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

~~https://media.illinois.edu/ for the degree of Bachelor of Science Major in Media & Cinema Studies departmentwebsite:https://media.illinois.edu/media-cinema-studies departmentfaculty:https://media.illinois.edu/media-cinema-studies/faculty overview of college admissions &requirements:College of Media collegewebsite:~~MEDIA AND CINEMA STUDIES (MACS), prepares students with dynamic skills for careers in media, information, creative, and visual industries, as well as informed interaction with everyday media technologies. Majors have the opportunity to participate in original research, mixed media production, internships, study abroad, and public engagement through a transformative learning environment. ~~Programs in Cinema Studies Undergraduate Programs:major:Media & Cinema Studies, BS minors:Cinema Studies | Critical Film Production | Media Graduate Programs:minor:Cinema Studies~~

Statement for Programs of Study Catalog

Graduation Requirements

Minimum hours required for graduation: 124 hours.

University Requirements

~~Students must complete the Campus General Education requirements including the campus general education language requirement, all of which must be taken for a traditional letter grade~~ Minimum ~~A~~

~~minimum~~ of ~~124 hours are required for graduation, including at least~~ 40 hours of upper-division coursework, ~~coursework~~ generally at the 300- or ~~and~~ 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements

Follows the campus General Education (Gen Ed) requirements. Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List

Code	Title	Hours
Composition I		4-6
Advanced Composition		3
fulfilled by MACS 101		
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
Social & Behavioral Sciences (6 hours)		6
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Major Requirements

Course List

Code	Title	Hours
Foundation Course		3
MACS 101	Introduction to the Media	3
Core Requirements: Theory, History, Methods, and Production		12-13
Students must choose a track for core requirements and are encouraged to select one of the specific tracks. Each track requires students to complete at least one course each in Theory, History, Methods, and Production appropriate to their track.		
Cinema Studies Track		
Theory		
MACS 361	Film Theory	
History		
Choose 1:		
MACS 261	Survey of World Cinema I	
MACS 262	Survey of World Cinema II	
Methods		
MACS 350	Film Analysis and Criticism	
Production		
Choose 1:		
MACS 150	Introduction to Digital Media Production	
MACS 205	Introduction to Documentary	
MACS 260	Film Production	
Critical Media Production Track		
Theory		

Code	Title	Hours
Choose 1:		
MACS 320	Popular Culture	
MACS 326	New Media, Culture & Society	
MACS 356	Sex & Gender in Popular Media	
MACS 361	Film Theory	
History		
Choose 1:		
MACS 205	Introduction to Documentary	
MACS 261	Survey of World Cinema I	
MACS 262	Survey of World Cinema II	
MACS 284	Animated Media from Mickey to GIFs	
MACS 317	Media History	
Methods		
Choose 1:		
MACS 350	Film Analysis and Criticism	
MACS 351	Media Analysis	
Production		
MACS 260	Film Production	
Media Studies Track		
Theory		
Choose 1:		
MACS 320	Popular Culture	
MACS 326	New Media, Culture & Society	
MACS 356	Sex & Gender in Popular Media	
History		
MACS 317	Media History	
Methods		
MACS 351	Media Analysis	
Production		
Choose 1:		
MACS 140	Smartphone Cinema	
MACS 150	Introduction to Digital Media Production	
MACS 205	Introduction to Documentary	
MACS 260	Film Production	
MACS 264	Media Industries	
General Track		
While a specific track is strongly preferred, students may fulfill the following core requirements for the general track:		
Theory		
Choose 1:		
MACS 320	Popular Culture	
MACS 326	New Media, Culture & Society	
MACS 356	Sex & Gender in Popular Media	
MACS 361	Film Theory	
History		
Choose 1:		
MACS 205	Introduction to Documentary	

Code	Title	Hours
MACS 261	Survey of World Cinema I	
MACS 262	Survey of World Cinema II	
MACS 284	Animated Media from Mickey to GIFs	
MACS 317	Media History	
Methods		
Choose 1:		
MACS 350	Film Analysis and Criticism	
MACS 351	Media Analysis	
Production		
Choose 1:		
MACS 140	Smartphone Cinema	
MACS 150	Introduction to Digital Media Production	
MACS 205	Introduction to Documentary	
MACS 260	Film Production	
MACS 264	Media Industries	
Capstone Course		3
Students should complete at least 3 hours of MACS coursework at the 400-level from the following list:		
MACS 408	TV Studies	
MACS 410	Media Ethics	
MACS 466	Japanese Cinema	
MACS 480	Advanced Filmmaking (MACS 480 and MACS 481 must be taken concurrently)	
MACS 481	Advanced Filmmaking Studio (MACS 480 and MACS 481 must be taken concurrently)	
MACS 484	Media Professionalization	
MACS 485	Making Video Essays	
MACS 496	Advanced Media/Cinema Topics	
Media and Cinema Studies Electives		12
Students must complete at least 12 hours of MACS coursework that is in addition to the requirements above. At least 3 hours must be at the 300-level or above.		
College of Media Electives		6
Students should complete at least 6 hours of coursework from courses in the College of Media, in addition to the requirements above. These can be Media and Cinema Studies (MACS), Journalism (JOUR), Advertising (ADV), or Media (MDIA).		
Total hours required for graduation		124

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?

124

CIP Code 090102 - Mass Communication/Media Studies.

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

Is this revision a change to the admission status of the program?

No

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 this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

No impact on 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)

Media Rate

Are you seeking a change in the tuition rate or differential for this program?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

No additional impact on 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.

Library collections, resources and services are sufficient to support these changes to the BS in Media and Cinema Studies.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	U Program Review Comments KEY 290 Media and Cinema Studies, BS 11_18_2024.docx
Banner/Codebook Name	BS: Media and Cinema St -UIUC
Program Code:	10KT5201BS

Minor Code	Conc Code	Degree Code	BS	Major Code
5201				

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	n/a
Effective Date:	
Program Reviewer Comments	**Brooke Newell (bsnewell) (11/18/24 8:00 am):** U Program Review comments attached in DMI Documentation section

Date Submitted: 11/11/24 8:51 am

Viewing: 10KV0300BS : Chemical Engineering, BS

Last approved: 10/23/24 9:26 am

Last edit: 11/27/24 9:17 am

Changes proposed by: Kathy Thomas-Stagg

Catalog Pages Using this Program	Chemical Engineering, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1687 Head**
3. **SOCS Head**
4. **KV Dean**
5. **University Librarian**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

Approval Path

1. 11/13/24 10:04 am
   Donna Butler (dbutler): Approved for U Program Review
2. 11/18/24 12:40 pm
   Christopher Rao (cvrao): Rollback to U Program Review for 1687 Head
3. 11/18/24 2:53 pm
   Donna Butler (dbutler): Approved for U Program Review
4. 11/18/24 2:54 pm
   Christopher Rao (cvrao): Approved for 1687 Head
5. 11/18/24 2:55 pm
   Karla Denzler

(denzler): Approved for SOCS Head
6. 11/20/24 1:47 pm Stephen Downie (sdownie): Approved for KV Dean
7. 11/21/24 2:45 pm Claire Stewart (clairest): Approved for University Librarian
8. 11/21/24 6:09 pm Suzanne Lee (suzannel): Approved for COTE Programs
9. 11/26/24 2:29 pm Brooke Newell (bsnewell): Approved for Provost

History

1. Mar 30, 2019 by Deb Forgacs (dforgacs)
2. Oct 23, 2024 by Kathy Thomas-Stagg (klt7)

Major (ex. Special Education)

This proposal is for a:
Revision

Administration Details

Official Program Name	Chemical Engineering, BS
Diploma Title	Bachelor of Science in Chemical Engineering
Sponsor College	Liberal Arts & Sciences
Sponsor	Chemical and Biomolecular Engineering

Department	
Sponsor Name	Chris Rao
Sponsor Email	cvrao@illinois.edu
College Contact	Stephen R. Downie
College Contact Email	sdownie@illinois.edu
College Budget Officer	Michael Wellens
College Budget Officer Email	wellens@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.

Baron Peters - DUS head - baronp@illinois.edu
Kathy Thomas-Stagg - CHBE Undergraduate Coordinator - chbe-ugprogramoffice@illinois.edu

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Bachelor of Science in Chemical Engineering in the College of Liberal Arts and Sciences

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

This BS revision (key 268) is related to the the Biomolecular Concentration proposal (key 734).

Program Justification

Provide a brief description of what changes are	1) Removing STAT 400 from the List 2 technical electives list for both the standard ChemE and the Biomolecular concentration.

being made to the program.

2) Removing CHBE 411 from the List 1 technical electives list for both the standard ChemE and the Biomolecular concentration by adding it to the list of excluded core course, i.e CHBE 411,421,422,424,430,431,440 do not count as technical electives.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1) The revision improves transparency for students. STAT 400 is accepted as an option for our Analysis of Data requirement, but hours cannot be double counted toward technical electives. With the recent overhaul of CHBE elective lists, inclusion of STAT 400 was an oversight. Any one of CHBE 411, IE 300 or STAT 400 may be used for the Analysis of Data requirement, but these courses share sufficient material that no two are acceptable by CHBE for degree credit. This exclusion is explicitly stated in the Syllabus for CHBE 411, but removal of STAT 400 eliminates confusion.

2) This revision corrects an oversight. All 400 level CHBE courses are acceptable as 400 level List 1 technical electives except those explicitly used to satisfy other degree requirements. CHBE 411 was accidentally omitted from this excluded list.

List of upper-division courses (Note: 200-level courses having two or more prerequisites also constitute upper-division (upper-level) courses and are not indicated in the list below.):

2 hrs CHEM 315: Instrumental Chem Systems Lab
2 hrs CHEM 420: Instrumental Characterization
3 hrs MCB 450: Introductory Biochemistry
4 hrs CHEM 442: Physical Chemistry I
4 hrs CHBE 321: Thermodynamics
3 hrs CHBE 411 Probability and Statistics
4 hrs CHBE 421: Momentum and Heat Transfer
4 hrs CHBE 422: Mass Transfer Operations
3 hrs CHBE 424: Chemical Reaction Engineering
4 hrs CHBE 430: Unit Operations Laboratory
4 hrs CHBE 431: Process Design
3 hrs CHBE 440: Process Control and Dynamics
3 hrs Technical Elective (list 2, 400 level)
3 hrs Technical Elective (CHBE 400 level)
3 hrs Technical Elective (CHBE 400 level)
3 hrs Technical Elective (list 1, 400 level)

-52 hrs of Upper-Level Course
-NOTE: Total credit hours of program remain unchanged with this revision.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

Yes

Courses outside of the sponsoring department/ interdisciplinary departments

~~ABE 436~~ - ~~Renewable Energy Systems~~
~~ABE 483~~ - ~~Engr Props Food Materials~~
~~ABE 488~~ - ~~Bioprocessing Biomass for Fuel~~
~~ABE 425~~ - ~~Engrg Measurement Systems~~
~~ABE 430~~ - ~~Project Management~~
~~ABE 497~~ - ~~Independent Study~~
~~ABE 498~~ - ~~Special Topics~~
~~ANSC 445~~ - ~~Statistical Methods~~
~~ANSC 450~~ - ~~Comparative Immunobiology~~
~~ATMS 420~~ - ~~Atmospheric Chemistry~~
~~ATMS 421~~ - ~~Earth Systems Modeling~~
~~BADM 461~~ - ~~Tech, Eng, & Mgt Final Project~~
~~BIOC 446~~ - ~~Physical Biochemistry~~
~~BIOE 476~~ - ~~Tissue Engineering~~
~~CEE 320~~ - ~~Construction Engineering~~
~~CEE 330~~ - ~~Environmental Engineering~~
~~CEE 350~~ - ~~Water Resources Engineering~~
~~CEE 407~~ - ~~Airport Design~~
~~CEE 440~~ - ~~Fate Cleanup Environ Pollutant~~
~~CEE 442~~ - ~~Env Eng Principles, Physical~~
~~CEE 443~~ - ~~Env Eng Principles, Chemical~~
~~CEE 450~~ - ~~Surface Hydrology~~
~~CEE 452~~ - ~~Hydraulic Analysis and Design~~
~~CEE 497~~ - ~~Independent Study~~
~~CEE 498~~ - ~~Special Topics~~
~~CHEM 436~~ - ~~Fundamental Organic Chem II~~
~~CHEM 437~~ - ~~Organic Chemistry Lab~~
~~CHEM 444~~ - ~~Physical Chemistry II~~
~~CHEM 445~~ - ~~Physical Principles Lab I~~
~~CHEM 483~~ - ~~Solid State Structural Anlys~~
~~CHEM 497~~ - ~~Individual Study Senior~~
~~CPSC 414~~ - ~~Forage Crops & Pasture Ecology~~
~~CPSC 415~~ - ~~Bioenergy Crops~~
~~CPSC 418~~ - ~~Crop Growth and Management~~

~~CPSC 419~~ - ~~Midwest Agricultural Practices~~
~~CPSC 453~~ - ~~Principles of Plant Breeding~~
~~CS 357~~ - ~~Numerical Methods I~~
~~CS 411~~ - ~~Database Systems~~
~~CS 427~~ - ~~Software Engineering I~~
~~CS 440~~ - ~~Artificial Intelligence~~
~~CS 446~~ - ~~Machine Learning~~
~~CS 498~~ - ~~Special Topics~~
~~ECE 304~~ - ~~Photonic Devices~~
~~ECE 313~~ - ~~Probability with Engrg Applic~~
~~ECE 333~~ - ~~Green Electric Energy~~
~~ECE 380~~ - ~~Biomedical Imaging~~
~~ECE 416~~ - ~~Biosensors~~
~~ECE 444~~ - ~~IC Device Theory & Fabrication~~
~~ECE 481~~ - ~~Nanotechnology~~
~~ECE 490~~ - ~~Introduction to Optimization~~
~~FSHN 414~~ - ~~Food Chemistry~~
~~FSHN 418~~ - ~~Food Analysis~~
~~FSHN 426~~ - ~~Biochemical Nutrition I~~
~~FSHN 428~~ - ~~Community Nutrition~~
~~FSHN 460~~ - ~~Food Processing Engineering~~
~~FSHN 465~~ - ~~Principles of Food Technology~~
~~FSHN 471~~ - ~~Food & Industrial Microbiology~~
~~FSHN 480~~ - ~~Basic Toxicology~~
~~FSHN 481~~ - ~~Food Processing Unit Ops I~~
~~FSHN 483~~ - ~~Food Processing Unit Ops II~~
~~GEOL 450~~ - ~~Investigating Earth's Interior~~
~~GEOL 451~~ - ~~Environmental Geophysics~~
~~GEOL 454~~ - ~~Introduction to Seismology~~
~~GEOL 470~~ - ~~Introduction to Hydrogeology~~
~~IB 451~~ - ~~Conservation Biology~~
~~IS 467~~ - ~~Ethics & Policy for Data Scien~~
~~MATH 402~~ - ~~Non Euclidean Geometry~~
~~MATH 413~~ - ~~Intro to Combinatorics~~
~~MATH 417~~ - ~~Intro to Abstract Algebra~~
~~MATH 442~~ - ~~Intro Partial Diff Equations~~
~~MATH 446~~ - ~~Applied Complex Variables~~
~~MATH 461~~ - ~~Probability Theory~~
~~MATH 487~~ - ~~Advanced Engineering Math~~
~~MCB 408~~ - ~~Immunology~~
~~MCB 424~~ - ~~Microbial Biochemistry~~
~~MCB 436~~ - ~~Global Biosecurity~~
~~MCB 450~~ - ~~Introductory Biochemistry~~
~~MCB 462~~ - ~~Integrative Neuroscience~~
~~ME 400~~ - ~~Energy Conversion Systems~~
~~ME 471~~ - ~~Finite Element Analysis~~
~~ME 482~~ - ~~Musculoskel Tissue Mechanics~~
~~ME 483~~ - ~~Mechanobiology~~

~~ME 487 - MEMS-NEMS Theory & Fabrication~~
~~MSE 304 - Electronic Properties of Matls~~
~~MSE 307 - Materials Laboratory I~~
~~MSE 308 - Materials Laboratory II~~
~~MSE 401 - Thermodynamics of Materials~~
~~MSE 402 - Kinetic Processes in Materials~~
~~MSE 403 - Synthesis of Materials~~
~~MSE 406 - Thermal-Mech Behavior of Matls~~
~~MSE 420 - Ceramic Materials & Properties~~
~~MSE 441 - Metals Processing~~
~~MSE 450 - Polymer Science & Engineering~~
~~MSE 457 - Polymer Chemistry~~
~~MSE 458 - Polymer Physics~~
~~MSE 460 - Electronic Materials I~~
~~MSE 470 - Design and Use of Biomaterials~~
~~MSE 473 - Biomolecular Materials Science~~
~~MSE 480 - Surfaces and Colloids~~
~~MSE 487 - Materials for Nanotechnology~~
~~MSE 489 - Matl Select for Sustainability~~
~~MSE 497 - Independent Study~~
~~MSE 498 - Special Topics~~
~~NPRE 201 - Energy Systems~~
~~NPRE 402 - Nuclear Power Engineering~~
~~NPRE 412 - Nuclear Power Econ & Fuel Mgmt~~
~~NPRE 441 - Radiation Protection~~
~~NPRE 442 - Radioactive Waste Management~~
~~NPRE 457 - Safety Anlys Nucl Reactor Syst~~
~~NPRE 461 - Probabilistic Risk Assessment~~
~~NPRE 470 - Fuel Cells & Hydrogen Sources~~
~~NPRE 475 - Wind Power Systems~~
~~NPRE 480 - Energy and Security~~
~~NPRE 483 - Seminar on Security~~
~~NPRE 498 - Special Topics~~
~~NRES 488 - Soil Fertility and Fertilizers~~
~~PHYS 435 - Electromagnetic Fields I~~
~~PHYS 470 - Subatomic Physics~~
~~SE 400 - Engineering Law~~
~~SE 411 - Reliability Engineering~~
STAT 400 - Statistics and Probability I
~~STAT 410 - Statistics and Probability II~~
~~STAT 420 - Methods of Applied Statistics~~
~~STAT 430 - Topics in Applied Statistics~~
~~STAT 440 - Statistical Data Management~~
~~TAM 211 - Statics~~
~~TAM 251 - Introductory Solid Mechanics~~
~~TAM 461 - Cellular Biomechanics~~
~~UP 406 - Urban Ecology~~
~~UP 430 - Urban Transportation Planning~~

~~CEE 421~~ - ~~Construction Planning~~
~~CEE 422~~ - ~~Construction Cost Analysis~~
~~CEE 432~~ - ~~Stream Ecology~~
~~CEE 437~~ - ~~Water Quality Engineering~~
~~RHET 105~~ - ~~Writing and Research~~
~~MATH 257~~ - ~~Linear Algebra w Computat Appl~~
~~IE 300~~ - ~~Analysis of Data~~
~~CS 450~~ - ~~Numerical Analysis~~
~~MSE 474~~ - ~~Biomaterials and Nanomedicine~~

Please attach any letters of support/ acknowledgement for any Instructional Resources consider faculty, students, and/or other impacted units as appropriate.	STAT 400_Letter_of_Acknowledgement_of_Removal.pdf

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Student learning outcomes are based on learning outcomes in line with the Accreditation Board for Engineering and Technology (ABET) accreditation process.

Upon completing this program, students are expected to be able to:

1) Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2) 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) Communicate effectively with a range of audiences.

4) 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) Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6) Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7) Acquire and apply new knowledge as needed, using appropriate learning strategies.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Course and Student Outcomes are directly and quantitatively measured in undergraduate core chemical engineering courses each semester. Adjustments and changes to lectures, problem sets, course projects and course emphasis are based on student performance on specific outcomes. The assessment process was applied to the core courses and quantitative and qualitative assessment of student performance, based on specific outcomes, have significantly shaped course improvement and instruction.

At the individual course level, course outcomes are developed by the faculty teaching that course with input from the entire faculty and are described within the individual course syllabi. Each of the course outcomes are matched with relevant student outcomes. Our approach for evaluating student achievement of outcomes involves instructors completing spreadsheets each semester for core courses. In their entirety, the documentation contained within the outcomes assessment spreadsheets directly and quantitatively demonstrates the achievement of student outcomes and tracks course improvement. Our spreadsheet-based process for documenting and measuring the achievement of our outcomes involves several steps:

1. Each instructor or teaching team develops and documents their course outcomes, with input from the faculty.

2. Each instructor designs assessment tools (exams, quizzes, projects, homework assignments, etc.) for each course outcome. These course outcomes are then mapped to student outcomes.

3. Each instructor determines the acceptable level of achievement for each outcome for which students as a whole will be assessed. These attainment levels typically range from 60% to 75% depending upon the type and difficulty of the assessment tool and course material.

4. Each instructor, with the help of a TA, compiles overall student achievement levels for each assessment tool and compares this average to the predetermined minimum achievement level.

5. If any outcome is not achieved, instructors suggest changes or possible reasons for the achievement level below the minimum acceptable level. These course improvements can also be prompted by lower than expected student performance on specific assessment instruments, instructor observations of the course, or best practices in engineering education.

6. In subsequent semesters, the instructors or teaching team close the loop and implement their suggested changes. Individual instructors adjust lectures, problem sets and course deliverables in response to course assessments. Once a change has been implemented, it is evaluated for efficacy. If an outcome is still not being achieved, further modifications are considered. These suggestions for modification can be instructor-derived, or solicited from other faculty, from a faculty, subcommittee, annual Curriculum Assessment and Review meeting, or from one of the various teaching support resources available to faculty outlined in Criterion 8. This process of iterative

continuous improvement is performed each time the course is offered.

7. Faculty members submit spreadsheets documenting items 1 through 6 as well as graded samples of all assessment tools which directly measure the achievement of one or more course outcomes tied to one or more student outcomes. This documentation is reviewed for completeness and archived by the Assessment Committee.

Extensive quantitative assessment of student outcomes is reviewed every six years.

Additional qualitative assessment are performed based on instructor observation, which prompt additional course improvements. Individual course spreadsheets, along with course improvement suggestions, samples of graded student work, and annual curriculum meeting minutes are collected and archived by the Assessment Committee every semester and can be made available if desired.

Graduating Student Survey

Senior students are surveyed starting 1-2 months before graduation to collect feedback on outcomes achievement and overall perception of the program. The graduating senior survey is kept open and available for completion for 1-2 months after graduation. This survey is conducted twice a year to allow every student an opportunity to provide feedback, as some students graduate in December. One important aspect of this survey is collecting feedback on the students' own perceived level of achievement of the student outcomes. Though these data are self-reflective, it is an important aspect of assessment since it helps us gauge the students' perceived level of preparedness, achievement and confidence at the time of graduation.

Students are asked to rate on a 1-5 scale their perceived level of achievement of the student outcomes.

For all surveys, any qualitative suggestions are documented and grouped based on topic. The quantitative and qualitative results of the Graduating Senior Survey are compiled, documented, and presented to the faculty once a year. Faculty discussion and resulting action items are documented in the Faculty Curriculum meeting minutes. Often action items are delegated to a sub group of faculty, such as the Undergraduate Curriculum Committee, for further analysis and suggested action if warranted.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Additional qualitative assessment are performed based on instructor observation, which prompt additional course improvements. Individual course spreadsheets, along with course improvement suggestions, samples of graded student work, and annual curriculum meeting minutes are collected and archived by the Assessment Committee every semester and can be made available if desired.

Graduating Student Survey

Senior students are surveyed starting 1-2 months before graduation to collect feedback

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.	on outcomes achievement and overall perception of the program. The graduating senior survey is kept open and available for completion for 1-2 months after graduation. This survey is conducted twice a year to allow every student an opportunity to provide feedback, as some students graduate in December. One important aspect of this survey is collecting feedback on the students' own perceived level of achievement of the student outcomes. Though these data are self-reflective, it is an important aspect of assessment since it helps us gauge the students' perceived level of preparedness, achievement and confidence at the time of graduation. Students are asked to rate on a 1-5 scale their perceived level of achievement of the student outcomes. For all surveys, any qualitative suggestions are documented and grouped based on topic. The quantitative and qualitative results of the Graduating Senior Survey are compiled, documented, and presented to the faculty once a year. Faculty discussion and resulting action items are documented in the Faculty Curriculum meeting minutes. Often action items are delegated to a sub group of faculty, such as the Undergraduate Curriculum Committee, for further analysis and suggested action if warranted. Annually CHBE faculty hold a Curriculum Assessment and Review meeting. Within this meeting a representative from each core CHBE course reports assessment information, overall perceptions of student strengths, and areas in need of improvement. This meeting is an opportunity to discuss the curriculum as a whole and the propagation of student skills throughout the program. Facilitating smooth transitions from a prerequisite class to a higher level course are discussed and improvements to strengthen the prerequisite course or its structure are evaluated. Specifically, evaluations of overall student strengths and areas in need of improvement are conducted by the faculty teaching the capstone courses, design (CHBE 431) and unit operations (CHBE 430) who continuously evaluate and improve the curriculum through a holistic approach. If the results of this annual Curriculum Assessment and Review meeting suggest the need for significant changes in course structure or coverage, these concerns are referred to the Undergraduate Curriculum Committee for consideration.
Program Description and Requirements	Indirect Assessments/Informal Data Sources
Attach Documents	
Is the career/profession for graduates of this program regulated by the State of Illinois?	To augment Alumni and Employer Surveys which often have very low response rates, the department head and other faculty meet with alumni and recruiters/employers, as many are alumni, when they visit campus. Representatives from industry visit faculty 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/PublicAdminRules2017.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.

Revised programs	Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

The first two years of the Chemical Engineering curriculum provide a strong foundation in basic sciences through Physics, Mathematics, Chemistry, an introduction to what Chemical Engineers do, and the fundamental basis of Chemical Engineering (Mass and Energy Balances and Thermodynamics.) In the third year, students delve deeper into more specialized Chemistry courses such as Physical and Analytical Chemistry, while exploring fundamental Chemical Engineering courses such as Momentum Transfer, Separations, and Reactor Design. The Senior year incorporates all of this learning through high level technical electives, Process Control, Capstone Lab, and Capstone Design courses. It is through the lab and design class that students apply everything they have learned in previous Chemical Engineering courses to real-world team projects and presentations.

The Chemical Engineering specialized curriculum provides a concentration in Biomolecular Engineering, with the Biomolecular concentration's technical electives focusing more on bio-applied processing and technology.

Statement for Programs of Study Catalog

Graduation Requirements

Minimum hours required for graduation: 129 hours.

A grade point average of 2.5 or higher in all courses required for the major earned on the UIUC campus is required in order to be accepted by the department as juniors and seniors.

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements

Follows the campus General Education (Gen Ed) requirements. Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List

Code	Title	Hours
Composition I		4-6
Advanced Composition		3
fulfilled by CHBE 431		
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
fulfilled by CHEM 202 and CHEM 204, or CHEM 102 and CHEM 104; and PHYS 211, PHYS 212		
Social & Behavioral Sciences (6 hours)		6
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
fulfilled by MATH 220 or MATH 221; and MATH 231, MATH 241, MATH 285, PHYS 211, PHYS 212, CS 101		

Code	Title	Hours
Language Requirement (Completion of the third semester or equivalent of a language other than English is required.)		0-15

Orientation and Professional Development

These courses introduce opportunities and resources the college, department, and curriculum offers students. They also provide background on the Chemical Engineering curriculum, what chemical engineers do, and the skills to work effectively and successfully in the engineering profession.

Course List

Code	Title	Hours
CHBE 121	CHBE Profession	1
For non-first-year students, CHBE 121 can be replaced with 1 hour of credit from Technical Elective List 1 or List 2. (Ref List 1 and List 2 below.)		
ENG 100	Grainger Engineering Orientation Seminar	1
Total Hours		2

Foundational Mathematics and Science

These courses stress the basic mathematical and scientific principles upon which the engineering discipline is based.

Course List

Code	Title	Hours
Select one group of courses (Accelerated or General Chemistry)		10-12
CHEM 202	Accelerated Chemistry I	
& CHEM 203	and Accelerated Chemistry Lab I	
& CHEM 204	and Accelerated Chemistry II	
& CHEM 205	and Accelerated Chemistry Lab II	
OR		
CHEM 102	General Chemistry I	
& CHEM 103	and General Chemistry Lab I	
& CHEM 104	and General Chemistry II	
& CHEM 105	and General Chemistry Lab II	
& CHEM 222	and Quantitative Analysis Lecture	
& CHEM 223	and Quantitative Analysis Lab	
MATH 221	Calculus I (MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 or 5 credit hours count towards the degree.)	4
MATH 231	Calculus II	3
MATH 241	Calculus III	4
MATH 257	Linear Algebra with Computational Applications	3
or MATH 415	Applied Linear Algebra	
MATH 285	Intro Differential Equations	3
or MATH 441	Differential Equations	
PHYS 211	University Physics: Mechanics	4
PHYS 212	University Physics: Elec & Mag	4
PHYS 214	Univ Physics: Quantum Physics	2

Code	Title	Hours
Total Hours		37-39

Chemical Engineering Technical Core

These courses stress fundamental concepts and basic laboratory techniques that comprise the common intellectual understanding of chemical engineering and chemical science.

Course List

Code	Title	Hours
CHBE 221	Principles of CHE	3
CHBE 321	Thermodynamics	4
CHBE 421	Momentum and Heat Transfer	4
CHBE 422	Mass Transfer Operations	4
CHBE 424	Chemical Reaction Engineering	3
CHBE 430	Unit Operations Laboratory	4
CHBE 431	Process Design	4
CHBE 440	Process Control and Dynamics	3
CHEM 236	Fundamental Organic Chem I	4
CHEM 237	Structure and Synthesis	2
CHEM 315	Instrumental Chem Systems Lab	2
Students must register in one of the Chemical Engineering-specific CHEM 315 lab sections.		
CHEM 420	Instrumental Characterization	2
CHEM 442	Physical Chemistry I	4
CS 101	Intro Computing: Engrg & Sci	3
CHBE 411	Probability and Statistics for ChBE	3-4
or IE 300	Analysis of Data	
or STAT 400	Statistics and Probability I	
Total Hours		49-50

Note: An optional Biomolecular Engineering concentration can be elected. See Chemical Engineering: Biomolecular Engineering, BS. Those who do not elect the optional concentration are required to take the coursework below.

Chemical Engineering Technical Core (cont.)

Course List

Code	Title	Hours
CHEM 436	Fundamental Organic Chem II	3
or MCB 450	Introductory Biochemistry	
Total Hours for Chemical Engineering Technical Core		52-53

Chemical Engineering Technical Electives

These courses stress the rigorous analysis and design principles practiced in the major subdisciplines of

chemical engineering, embodied in the standard chemical engineering program and biomolecular engineering concentration.

Course List

Code	Title	Hours
Select 18 credit hours from List 1 and List 2, with specific requirements noted below.		
Note: A maximum of 10 credit hours of undergraduate research may be counted toward Technical Elective credit.		
Two 400-level ChBE courses from List 1, with not more than 3 hours being CHBE 497 or CHBE 499		6
One Additional 400-level course from List 1		3
Two Additional courses from List 1		6
One Additional 400-level course from List 1 or List 2		3
Total Hours for Chemical Engineering Technical Electives		18

LIST 1

Any 400-level ChBE Course, excluding ChBE core courses CHBE 411, CHBE 421, CHBE 422, CHBE 424, CHBE 430, CHBE 431, and CHBE 440

ABE 436	Renewable Energy Systems
ABE 483	Engineering Properties of Food Materials
ABE 488	Bioprocessing Biomass for Fuel
ATMS 420	Atmospheric Chemistry
BIOE 476	Tissue Engineering
CEE 320	Construction Engineering
CEE 330	Environmental Engineering
CEE 350	Water Resources Engineering
CEE 421	Construction Planning
CEE 422	Construction Cost Analysis
CEE 432	Stream Ecology
CEE 437	Water Quality Engineering
CEE 440	Fate Cleanup Environ Pollutant
CEE 442	Environmental Engineering Principles, Physical
CEE 443	Env Eng Principles, Chemical
CEE 450	Surface Hydrology
CEE 452	Hydraulic Analysis and Design
CHBE 297	Individual Study Sophomores
CHBE 397	Individual Study for Juniors
CS 357	Numerical Methods I
CS 411	Database Systems
CS 427	Software Engineering I
CS 440	Artificial Intelligence
CS 446	Machine Learning
CS 450	Numerical Analysis
CS 498	Special Topics
ECE 304	Photonic Devices
ECE 313	Probability with Engrg Applic
ECE 333	Green Electric Energy
ECE 380	Biomedical Imaging
ECE 416	Biosensors
ECE 444	IC Device Theory & Fabrication
ECE 481	Nanotechnology

Code	Title	Hours
ECE 490	Introduction to Optimization	
ME 400	Energy Conversion Systems	
ME 471	Finite Element Analysis	
ME 482	Musculoskel Tissue Mechanics	
ME 483	Mechanobiology	
ME 487	MEMS-NEMS Theory & Fabrication	
MSE 304	Electronic Properties of Matls	
MSE 307	Materials Laboratory I	
MSE 308	Materials Laboratory II	
MSE 401	Thermodynamics of Materials	
MSE 402	Kinetic Processes in Materials	
MSE 403	Synthesis of Materials	
MSE 406	Thermal-Mech Behavior of Matls	
MSE 420	Ceramic Materials & Properties	
MSE 441	Metals Processing	
MSE 450	Polymer Science & Engineering	
MSE 457	Polymer Chemistry	
MSE 458	Polymer Physics	
MSE 460	Electronic Materials I	
MSE 470	Design and Use of Biomaterials	
MSE 473	Biomolecular Materials Science	
MSE 474	Biomaterials and Nanomedicine	
MSE 480	Surfaces and Colloids	
MSE 487	Materials for Nanotechnology	
MSE 489	Matl Select for Sustainability	
NPRE 201	Energy Systems	
NPRE 402	Nuclear Power Engineering	
NPRE 412	Nuclear Power Econ & Fuel Mgmt	
NPRE 441	Radiation Protection	
NPRE 442	Radioactive Waste Management	
NPRE 457	Safety Anlys Nucl Reactor Syst	
NPRE 461	Probabilistic Risk Assessment	
NPRE 470	Fuel Cells & Hydrogen Sources	
NPRE 475	Wind Power Systems	
NPRE 480	Energy and Security	
SE 411	Reliability Engineering	
TAM 211	Statics	
TAM 251	Introductory Solid Mechanics	
TAM 461	Cellular Biomechanics	
LIST 2		
ABE 425	Engrg Measurement Systems	
ABE 430	Project Management	
ABE 497	Independent Study	
ABE 498	Special Topics	
ANSC 445	Statistical Methods	
ANSC 450	Comparative Immunobiology	
ATMS 421	Earth Systems Modeling	

Code	Title	Hours
BADM 461	Tech, Eng, & Mgt Final Project	
BIOC 446	Physical Biochemistry	
CEE 407	Airport Design	
CEE 497	Independent Study	
CEE 498	Special Topics	
CHEM 436	Fundamental Organic Chem II	
CHEM 437	Organic Chemistry Lab	
CHEM 444	Physical Chemistry II	
CHEM 445	Physical Principles Lab I	
CHEM 483	Solid State Structural Anlys	
CHEM 497	Individual Study Senior	
CPSC 414	Forage Crops & Pasture Ecology	
CPSC 415	Bioenergy Crops	
CPSC 418	Crop Growth and Management	
CPSC 419	Midwest Agricultural Practices	
CPSC 453	Principles of Plant Breeding	
FSHN 414	Food Chemistry	
FSHN 418	Food Analysis	
FSHN 426	Biochemical Nutrition I	
FSHN 428	Community Nutrition	
FSHN 460	Food Processing Engineering	
FSHN 465	Principles of Food Technology	
FSHN 471	Food & Industrial Microbiology	
FSHN 480	Basic Toxicology	
FSHN 481	Food Processing Unit Operations I	
FSHN 483	Food Processing Unit Operations II	
GEOL 450	Investigating the Earth’s Interior	
GEOL 451	Environmental Geophysics	
GEOL 454	Introduction to Seismology	
GEOL 470	Introduction to Hydrogeology	
IB 451	Conservation Biology	
IS 467	Ethics and Policy for Data Science	
MATH 402	Non Euclidean Geometry	
MATH 413	Intro to Combinatorics	
MATH 417	Intro to Abstract Algebra	
MATH 442	Intro Partial Diff Equations	
MATH 446	Applied Complex Variables	
MATH 461	Probability Theory	
MATH 487	Advanced Engineering Math	
MCB 408	Immunology	
MCB 424	Microbial Biochemistry	
MCB 436	Global Biosecurity	
MCB 450	Introductory Biochemistry	
MCB 462	Integrative Neuroscience	
MSE 497	Independent Study	
MSE 498	Special Topics	
NPRE 483	Seminar on Security	

Code	Title	Hours
NPRE 498	Special Topics	
NRES 488	Soil Fertility and Fertilizers	
PHYS 435	Electromagnetic Fields I	
PHYS 470	Subatomic Physics	
SE 400	Engineering Law	
~~STAT 400~~	~~Statistics and Probability I~~	
STAT 410	Statistics and Probability II	
STAT 420	Methods of Applied Statistics	
STAT 430	Topics in Applied Statistics	
STAT 440	Statistical Data Management	
UP 406	Urban Ecology	
UP 430	Urban Transportation Planning	

Corresponding Degree: BS Bachelor of Science

Program Features

Academic Level: Undergraduate

Does this major have transcripted concentrations?: Yes

Will you admit to the concentration directly?: No

Is a concentration required for graduation?: No

What is the typical time to completion of this program?

4 years

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

129

CIP Code: 140701 - Chemical 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: Spring 2025

Is this revision a change to the admission status of the program?

No

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.

First-year applicants will continue to be evaluated holistically before a decision is made. Several factors such as courses taken in high school, grades, extracurricular activities, information submitted in essays, and test scores (if provided) are considered. Transfer applicants will continue to be evaluated based on the graded transferable college credit received from previous colleges and/or universities attended. Prerequisite coursework includes a non-accelerated (or accelerated) general chemistry sequence, a 3-semester calculus and analytic geometry sequence, and a 3-semester calculus-based physics sequence (or a 2-semester non-calculus-based physics sequence).

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

This revision does not impact enrollment and/or degrees awarded.

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)

Engineering Differential

Are you seeking a change in the tuition rate or differential for this program?

No

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

There will be no impact on faculty resources for the creation and sustainability of this program/courses due to this revision.

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 significant impact on Library resources for revisions to course programs.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final

Approval Notices

Banner/Codebook Name	BS:Chemical Engineering -UIUC
Program Code:	10KV0300BS

Minor Code	Conc Code	Degree Code	Major Code
0300		BS	

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	

Program Reviewer Comments

Brooke Newell (bsnewell) (11/04/24 8:29 am): Rollback: Per conversation and request from Kathy Thomas-Stagg

Brooke Newell (bsnewell) (11/11/24 10:58 am): Per discussion with Kathy Thomas Stagg, I revised the proposal to remove courses in the Instructional Resources section that persisted with this revision and shouldn't have.

Brooke Newell (bsnewell) (11/13/24 8:08 am): No U Program Review Comments

Christopher Rao (cvrao) (11/18/24 12:40 pm): Rollback: Was reuested.

Key: 268

Date Submitted: 11/11/24 8:53 am

Viewing: 10KV5029BS : Chemical Engineering: Biomolecular Engineering, BS

Last approved: 10/23/24 9:27 am

Last edit: 11/27/24 9:17 am

Changes proposed by: Kathy Thomas-Stagg

Catalog Pages Using this Program	Chemical Engineering: Biomolecular Engineering, BS

Proposal Type:

In Workflow

1. **U Program Review**
2. **1687 Head**
3. **SOCS Head**
4. **KV Dean**
5. **University Librarian**
6. **COTE Programs**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DMI

Approval Path

1. 11/13/24 10:04 am
   Donna Butler (dbutler): Approved for U Program Review
2. 11/18/24 12:40 pm
   Christopher Rao (cvrao): Rollback to U Program Review for 1687 Head
3. 11/18/24 2:53 pm
   Donna Butler (dbutler): Approved for U Program Review
4. 11/18/24 2:54 pm
   Christopher Rao (cvrao): Approved for 1687 Head
5. 11/18/24 2:55 pm
   Karla Denzler

(denzler): Approved for SOCS Head
6. 11/20/24 1:50 pm Stephen Downie (sdownie): Approved for KV Dean
7. 11/21/24 2:46 pm Claire Stewart (clairest): Approved for University Librarian
8. 11/21/24 6:09 pm Suzanne Lee (suzannel): Approved for COTE Programs
9. 11/26/24 2:29 pm Brooke Newell (bsnewell): Approved for Provost

History

1. Apr 29, 2019 by Deb Forgacs (dforgacs)
2. Oct 23, 2024 by Kathy Thomas-Stagg (klt7)

Concentration (ex. Dietetics)

This proposal is for a:
Revision

Administration Details

Official Program Name	Chemical Engineering: Biomolecular Engineering, BS
Diploma Title	Bachelor of Science in Chemical Engineering
Sponsor College	Liberal Arts & Sciences
Sponsor	Chemical and Biomolecular Engineering

Department	
Sponsor Name	Chris Rao
Sponsor Email	cvrao@illinois.edu
College Contact	Stephen R. Downie
College Contact Email	sdownie@illinois.edu
College Budget Officer	Michael Wellens
College Budget Officer Email	wellens@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.

Baron Peters - DUS head - baronp@illinois.edu
Kathy Thomas-Stagg - CHBE Undergraduate Coordinator - chbe-ugprogramoffice@illinois.edu

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term	Spring 2025

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Revise the Concentration in Biomolecular Engineering in the Bachelor of Science in Chemical Engineering in the College of Liberal Arts and Sciences

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

This BS revision (key 734) is related to the the Chemical Engineering proposal (key 268).

Program Justification

Provide a brief description of what changes are	1) Removing STAT 400 from the List 2 technical electives list for both the standard ChemE and the Biomolecular concentration.

being made to the program.

2) Removing CHBE 411 from the List 1 technical electives list for both the standard ChemE and the Biomolecular concentration by adding it to the list of excluded core course, i.e. CHBE 411,421,422,424,430,431,440 do not count as technical electives.

Did the program content change 25% or more in relation to the total credit hours, since the 2020-2021 catalog. (http://catalog.illinois.edu/archivedacademiccatalogs/2020-2021/)

No

Why are these changes necessary?

1) The revision improves transparency for students. STAT 400 is accepted as an option for our Analysis of Data requirement, but hours cannot be double counted toward technical electives. With the recent overhaul of CHBE elective lists, inclusion of STAT 400 was an oversight. Any one of CHBE 411, IE 300 or STAT 400 may be used for the Analysis of Data requirement, but these courses share sufficient material that no two are acceptable by CHBE for degree credit. This exclusion is explicitly stated in the Syllabus for CHBE 411, but removal of STAT 400 eliminates confusion.

2) This revision corrects an oversight. All 400 level CHBE courses are acceptable as 400 level List 1 technical electives except those explicitly used to satisfy other degree requirements. CHBE 411 was accidentally omitted from this excluded list.

List of upper-division courses (Note: 200-level courses having two or more prerequisites also constitute upper-division (upper-level) courses and are not indicated in the list below.):

2 hrs CHEM 315: Instrumental Chem Systems Lab
2 hrs CHEM 420: Instrumental Characterization
3 hrs MCB 450: Introductory Biochemistry
4 hrs CHEM 442: Physical Chemistry I
4 hrs CHBE 321: Thermodynamics
3 hrs CHBE 411 Probability and Statistics
4 hrs CHBE 421: Momentum and Heat Transfer
4 hrs CHBE 422: Mass Transfer Operations
3 hrs CHBE 424: Chemical Reaction Engineering
4 hrs CHBE 430: Unit Operations Laboratory
4 hrs CHBE 431: Process Design
3 hrs CHBE 440: Process Control and Dynamics
9 hrs Technical Elective (Category A)
6 hrs Technical Elective (Category A or B)
3 hrs Technical Elective (List 1 or 2, 400 level)

-58 hrs of Upper-Level Course
-NOTE: Total credit hours of program remain unchanged with this revision.

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 this new program/proposed change result in the replacement of another program?

No

Does the program include other courses/subjects outside of the sponsoring department impacted by the creation/revision of this program?

Yes

Courses outside of the sponsoring department/ interdisciplinary departments

~~ABE 436~~ - ~~Renewable Energy Systems~~
~~ABE 483~~ - ~~Engr Props Food Materials~~
~~ABE 488~~ - ~~Bioprocessing Biomass for Fuel~~
~~ABE 497~~ - ~~Independent Study~~
~~ABE 498~~ - ~~Special Topics~~
~~ANSC 450~~ - ~~Comparative Immunobiology~~
~~ATMS 420~~ - ~~Atmospheric Chemistry~~
~~ATMS 421~~ - ~~Earth Systems Modeling~~
~~BIOC 446~~ - ~~Physical Biochemistry~~
~~BIOE 476~~ - ~~Tissue Engineering~~
~~CEE 320~~ - ~~Construction Engineering~~
~~CEE 330~~ - ~~Environmental Engineering~~
~~CEE 350~~ - ~~Water Resources Engineering~~
~~CEE 421~~ - ~~Construction Planning~~
~~CEE 422~~ - ~~Construction Cost Analysis~~
~~CEE 432~~ - ~~Stream Ecology~~
~~CEE 437~~ - ~~Water Quality Engineering~~
~~CEE 440~~ - ~~Fate Cleanup Environ Pollutant~~
~~CEE 442~~ - ~~Env Eng Principles, Physical~~
~~CEE 450~~ - ~~Surface Hydrology~~
~~CEE 452~~ - ~~Hydraulic Analysis and Design~~
~~CEE 497~~ - ~~Independent Study~~
~~CEE 498~~ - ~~Special Topics~~
~~CHEM 436~~ - ~~Fundamental Organic Chem II~~
~~CHEM 437~~ - ~~Organic Chemistry Lab~~
~~CHEM 444~~ - ~~Physical Chemistry II~~
~~CHEM 445~~ - ~~Physical Principles Lab I~~
~~CHEM 497~~ - ~~Individual Study Senior~~
~~CPSC 414~~ - ~~Forage Crops & Pasture Ecology~~
~~CPSC 415~~ - ~~Bioenergy Crops~~
~~CPSC 418~~ - ~~Crop Growth and Management~~
~~CPSC 419~~ - ~~Midwest Agricultural Practices~~
~~CPSC 453~~ - ~~Principles of Plant Breeding~~
~~CS 357~~ - ~~Numerical Methods I~~
~~CS 411~~ - ~~Database Systems~~

~~CS 427~~ - ~~Software Engineering I~~
~~CS 440~~ - ~~Artificial Intelligence~~
~~CS 446~~ - ~~Machine Learning~~
~~CS 450~~ - ~~Numerical Analysis~~
~~CS 498~~ - ~~Special Topics~~
~~ECE 304~~ - ~~Photonic Devices~~
~~ECE 313~~ - ~~Probability with Engrg Applic~~
~~ECE 333~~ - ~~Green Electric Energy~~
~~ECE 380~~ - ~~Biomedical Imaging~~
~~ECE 416~~ - ~~Biosensors~~
~~ECE 444~~ - ~~IC Device Theory & Fabrication~~
~~ECE 481~~ - ~~Nanotechnology~~
~~ECE 490~~ - ~~Introduction to Optimization~~
~~FSHN 414~~ - ~~Food Chemistry~~
~~FSHN 418~~ - ~~Food Analysis~~
~~FSHN 426~~ - ~~Biochemical Nutrition I~~
~~FSHN 428~~ - ~~Community Nutrition~~
~~FSHN 460~~ - ~~Food Processing Engineering~~
~~FSHN 465~~ - ~~Principles of Food Technology~~
~~FSHN 471~~ - ~~Food & Industrial Microbiology~~
~~FSHN 480~~ - ~~Basic Toxicology~~
~~FSHN 481~~ - ~~Food Processing Unit Ops I~~
~~FSHN 483~~ - ~~Food Processing Unit Ops II~~
~~GEOL 450~~ - ~~Investigating Earth's Interior~~
~~GEOL 451~~ - ~~Environmental Geophysics~~
~~GEOL 454~~ - ~~Introduction to Seismology~~
~~GEOL 470~~ - ~~Introduction to Hydrogeology~~
~~IB 451~~ - ~~Conservation Biology~~
~~MATH 402~~ - ~~Non Euclidean Geometry~~
~~MATH 413~~ - ~~Intro to Combinatorics~~
~~MATH 417~~ - ~~Intro to Abstract Algebra~~
~~MATH 442~~ - ~~Intro Partial Diff Equations~~
~~MATH 446~~ - ~~Applied Complex Variables~~
~~MATH 461~~ - ~~Probability Theory~~
~~MATH 487~~ - ~~Advanced Engineering Math~~
~~MCB 408~~ - ~~Immunology~~
~~MCB 424~~ - ~~Microbial Biochemistry~~
~~MCB 436~~ - ~~Global Biosecurity~~
~~MCB 450~~ - ~~Introductory Biochemistry~~
~~MCB 462~~ - ~~Integrative Neuroscience~~
~~ME 400~~ - ~~Energy Conversion Systems~~
~~ME 471~~ - ~~Finite Element Analysis~~
~~ME 482~~ - ~~Musculoskel Tissue Mechanics~~
~~ME 483~~ - ~~Mechanobiology~~
~~ME 487~~ - ~~MEMS-NEMS Theory & Fabrication~~
~~MSE 304~~ - ~~Electronic Properties of Matls~~
~~MSE 307~~ - ~~Materials Laboratory I~~
~~MSE 308~~ - ~~Materials Laboratory II~~

~~MSE 401 - Thermodynamics of Materials~~
~~MSE 402 - Kinetic Processes in Materials~~
~~MSE 403 - Synthesis of Materials~~
~~MSE 406 - Thermal-Mech Behavior of Matls~~
~~MSE 420 - Ceramic Materials & Properties~~
~~MSE 441 - Metals Processing~~
~~MSE 450 - Polymer Science & Engineering~~
~~MSE 457 - Polymer Chemistry~~
~~MSE 458 - Polymer Physics~~
~~MSE 460 - Electronic Materials I~~
~~MSE 470 - Design and Use of Biomaterials~~
~~MSE 473 - Biomolecular Materials Science~~
~~MSE 474 - Biomaterials and Nanomedicine~~
~~MSE 480 - Surfaces and Colloids~~
~~MSE 487 - Materials for Nanotechnology~~
~~MSE 489 - Matl Select for Sustainability~~
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~~NPRE 201 - Energy Systems~~
~~NPRE 402 - Nuclear Power Engineering~~
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~~NPRE 441 - Radiation Protection~~
~~NPRE 442 - Radioactive Waste Management~~
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~~NPRE 461 - Probabilistic Risk Assessment~~
~~NPRE 470 - Fuel Cells & Hydrogen Sources~~
~~NPRE 475 - Wind Power Systems~~
~~NPRE 480 - Energy and Security~~
~~NPRE 483 - Seminar on Security~~
~~NPRE 498 - Special Topics~~
~~NRES 488 - Soil Fertility and Fertilizers~~
~~PHYS 435 - Electromagnetic Fields I~~
~~PHYS 470 - Subatomic Physics~~
~~SE 400 - Engineering Law~~
STAT 400 - Statistics and Probability I
~~STAT 410 - Statistics and Probability II~~
~~STAT 420 - Methods of Applied Statistics~~
~~STAT 430 - Topics in Applied Statistics~~
~~STAT 440 - Statistical Data Management~~
~~TAM 211 - Statics~~
~~TAM 251 - Introductory Solid Mechanics~~
~~TAM 461 - Cellular Biomechanics~~
~~RHET 105 - Writing and Research~~
~~MATH 257 - Linear Algebra w Computat Appl~~
~~ABE 425 - Engrg Measurement Systems~~
~~ABE 430 - Project Management~~
~~ANSC 445 - Statistical Methods~~
~~BADM 461 - Tech, Eng, & Mgt Final Project~~

~~CEE 407~~ - ~~Airport Design~~
~~CEE 443~~ - ~~Env Eng Principles, Chemical~~
~~CHEM 483~~ - ~~Solid State Structural Anlys~~
~~IS 467~~ - ~~Ethics & Policy for Data Scien~~
~~SE 411~~ - ~~Reliability Engineering~~
~~IE 300~~ - ~~Analysis of Data~~
~~UP 406~~ - ~~Urban Ecology~~
~~UP 430~~ - ~~Urban Transportation Planning~~
~~ECE 467~~ - ~~Biophotonics~~
~~ECE 480~~ - ~~Magnetic Resonance Imaging~~

Please attach any letters of support/ acknowledgement for any Instructional Resources consider faculty, students, and/or other impacted units as appropriate.	STAT 400_Letter_of_Acknowledgement_of_Removal.pdf

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Student learning outcomes are based on learning outcomes in line with the Accreditation Board for Engineering and Technology (ABET) accreditation process.

Upon completing this program, students are expected to be able to:

1) Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2) 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) Communicate effectively with a range of audiences.

4) 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) Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6) Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7) Acquire and apply new knowledge as needed, using appropriate learning strategies.

8) An ability to analyze the chemistry and metabolism of macromolecules in biological processes and their relation to the regulation and processes of organisms, cells, and subcellular components.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

Course and Student Outcomes are directly and quantitatively measured in undergraduate core chemical engineering courses each semester. Adjustments and changes to lectures, problem sets, course projects and course emphasis are based on student performance on specific outcomes. The assessment process was applied to the core courses and quantitative and qualitative assessment of student performance, based on specific outcomes, have significantly shaped course improvement and instruction.

At the individual course level, course outcomes are developed by the faculty teaching that course with input from the entire faculty and are described within the individual course syllabi. Each of the course outcomes are matched with relevant student outcomes. Our approach for evaluating student achievement of outcomes involves instructors completing spreadsheets each semester for core courses. In their entirety, the documentation contained within the outcomes assessment spreadsheets directly and quantitatively demonstrates the achievement of student outcomes and tracks course improvement. Our spreadsheet-based process for documenting and measuring the achievement of our outcomes involves several steps:

1. Each instructor or teaching team develops and documents their course outcomes, with input from the faculty.

2. Each instructor designs assessment tools (exams, quizzes, projects, homework assignments, etc.) for each course outcome. These course outcomes are then mapped to student outcomes.

3. Each instructor determines the acceptable level of achievement for each outcome for which students as a whole will be assessed. These attainment levels typically range from 60% to 75% depending upon the type and difficulty of the assessment tool and course material.

4. Each instructor, with the help of a TA, compiles overall student achievement levels for each assessment tool and compares this average to the predetermined minimum achievement level.

5. If any outcome is not achieved, instructors suggest changes or possible reasons for the achievement level below the minimum acceptable level. These course improvements can also be prompted by lower than expected student performance on specific assessment instruments, instructor observations of the course, or best practices in engineering education.

6. In subsequent semesters, the instructors or teaching team close the loop and implement their suggested changes. Individual instructors adjust lectures, problem sets and course deliverables in response to course assessments. Once a change has been implemented, it is evaluated for efficacy. If an outcome is still not being achieved, further modifications are considered. These suggestions for modification can be instructor-derived, or solicited from other faculty, from a faculty, subcommittee, annual Curriculum Assessment and Review meeting, or from one of the various teaching support resources available to faculty outlined in Criterion 8. This process of iterative

continuous improvement is performed each time the course is offered.

7. Faculty members submit spreadsheets documenting items 1 through 6 as well as graded samples of all assessment tools which directly measure the achievement of one or more course outcomes tied to one or more student outcomes. This documentation is reviewed for completeness and archived by the Assessment Committee.

Extensive quantitative assessment of student outcomes is reviewed every six years.

Additional qualitative assessment are performed based on instructor observation, which prompt additional course improvements. Individual course spreadsheets, along with course improvement suggestions, samples of graded student work, and annual curriculum meeting minutes are collected and archived by the Assessment Committee every semester and can be made available if desired.

Graduating Student Survey

Senior students are surveyed starting 1-2 months before graduation to collect feedback on outcomes achievement and overall perception of the program. The graduating senior survey is kept open and available for completion for 1-2 months after graduation. This survey is conducted twice a year to allow every student an opportunity to provide feedback, as some students graduate in December. One important aspect of this survey is collecting feedback on the students' own perceived level of achievement of the student outcomes. Though these data are self-reflective, it is an important aspect of assessment since it helps us gauge the students' perceived level of preparedness, achievement and confidence at the time of graduation.

Students are asked to rate on a 1-5 scale their perceived level of achievement of the student outcomes.

For all surveys, any qualitative suggestions are documented and grouped based on topic. The quantitative and qualitative results of the Graduating Senior Survey are compiled, documented, and presented to the faculty once a year. Faculty discussion and resulting action items are documented in the Faculty Curriculum meeting minutes. Often action items are delegated to a sub group of faculty, such as the Undergraduate Curriculum Committee, for further analysis and suggested action if warranted.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

Additional qualitative assessment are performed based on instructor observation, which prompt additional course improvements. Individual course spreadsheets, along with course improvement suggestions, samples of graded student work, and annual curriculum meeting minutes are collected and archived by the Assessment Committee every semester and can be made available if desired.

Graduating Student Survey

Senior students are surveyed starting 1-2 months before graduation to collect feedback

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.	on outcomes achievement and overall perception of the program. The graduating senior survey is kept open and available for completion for 1-2 months after graduation. This survey is conducted twice a year to allow every student an opportunity to provide feedback, as some students graduate in December. One important aspect of this survey is collecting feedback on the students' own perceived level of achievement of the student outcomes. Though these data are self-reflective, it is an important aspect of assessment since it helps us gauge the students' perceived level of preparedness, achievement and confidence at the time of graduation. Students are asked to rate on a 1-5 scale their perceived level of achievement of the student outcomes. For all surveys, any qualitative suggestions are documented and grouped based on topic. The quantitative and qualitative results of the Graduating Senior Survey are compiled, documented, and presented to the faculty once a year. Faculty discussion and resulting action items are documented in the Faculty Curriculum meeting minutes. Often action items are delegated to a sub group of faculty, such as the Undergraduate Curriculum Committee, for further analysis and suggested action if warranted. Annually CHBE faculty hold a Curriculum Assessment and Review meeting. Within this meeting a representative from each core CHBE course reports assessment information, overall perceptions of student strengths, and areas in need of improvement. This meeting is an opportunity to discuss the curriculum as a whole and the propagation of student skills throughout the program. Facilitating smooth transitions from a prerequisite class to a higher level course are discussed and improvements to strengthen the prerequisite course or its structure are evaluated. Specifically, evaluations of overall student strengths and areas in need of improvement are conducted by the faculty teaching the capstone courses, design (CHBE 431) and unit operations (CHBE 430) who continuously evaluate and improve the curriculum through a holistic approach. If the results of this annual Curriculum Assessment and Review meeting suggest the need for significant changes in course structure or coverage, these concerns are referred to the Undergraduate Curriculum Committee for consideration.
Program Description and Requirements Attach Documents	Indirect Assessments/Informal Data Sources To augment Alumni and Employer Surveys which often have very low response rates, the department head and other faculty meet with alumni and recruiters/employers, as many are alumni, when they visit campus. Representatives from industry visit faculty
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/PublicAdminRules2017.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.

Revised programs	Attach a revised Sample Sequence (for undergraduate program) or college-level forms.

Catalog Page Text - Overview Tab

Description of program for 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.

For those students who are pursuing a B.S. Degree in Chemical Engineering, students can choose to earn a concentration in Biomolecular Engineering, as well. This concentration builds upon the traditional principles of chemical engineering but specializes in biological and biotechnological systems to better prepare students who are interested in or plan to seek employment in the food, pharmaceutical, and biotechnology industries.

Statement for Programs of Study Catalog	**Graduation Requirements** Minimum hours required for graduation: 129 hours A grade point average of 2.5 or higher in all courses required for the major earned on the UIUC campus is

required in order to be accepted by the department as juniors and seniors.

University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (§ 3-801) and in the Academic Catalog.

General Education Requirements

Follows the campus General Education (Gen Ed) requirements. Some Gen Ed requirements may be met by courses required and/or electives in the program.

Course List

Code	Title	Hours
Composition I		4-6
Advanced Composition		3
fulfilled by CHBE 431		
Humanities & the Arts (6 hours)		6
Natural Sciences & Technology (6 hours)		6
fulfilled by CHEM 202 and CHEM 204, or CHEM 102 and CHEM 104; and PHYS 211, PHYS 212		
Social & Behavioral Sciences (6 hours)		6
Cultural Studies: Non-Western Cultures (1 course)		3
Cultural Studies: US Minority Cultures (1 course)		3
Cultural Studies: Western/Comparative Cultures (1 course)		3
Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)		6-10
fulfilled by MATH 220 or MATH 221 and MATH 231, MATH 241, MATH 285, PHYS 211, PHYS 212, CS 101		
Language Requirement (Completion of the third semester or equivalent of a language other than English is required)		0-15

Orientation and Professional Development

These courses introduce opportunities and resources the college, department, and curriculum offers students. They also provide background on the Chemical Engineering curriculum, what chemical engineers do, and the skills to work effectively and successfully in the engineering profession.

Course List

Code	Title	Hours
CHBE 121	CHBE Profession	1
For non-first-year students, CHBE 121 can be replaced with 1 hour of credit from Technical Elective List 1 or List 2. (Ref List 1 and List 2 below.)		
ENG 100	Grainger Engineering Orientation Seminar	1
Total Hours		2

Foundational Mathematics and Science

These courses stress the basic mathematical and scientific principles upon which the engineering discipline is based.

Course List

Code	Title	Hours
Select one group of courses (Accelerated or General Chemistry)		10-12
CHEM 202	Accelerated Chemistry I	
& CHEM 203	and Accelerated Chemistry Lab I	
& CHEM 204	and Accelerated Chemistry II	
& CHEM 205	and Accelerated Chemistry Lab II	
OR		
CHEM 102	General Chemistry I	
& CHEM 103	and General Chemistry Lab I	
& CHEM 104	and General Chemistry II	
& CHEM 105	and General Chemistry Lab II	
& CHEM 222	and Quantitative Analysis Lecture	
& CHEM 223	and Quantitative Analysis Lab	
MATH 221	Calculus I (MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 or 5 credit hours count towards the degree.)	4
MATH 231	Calculus II	3
MATH 241	Calculus III	4
MATH 257	Linear Algebra with Computational Applications	3
or MATH 415	Applied Linear Algebra	
MATH 285	Intro Differential Equations	3
or MATH 441	Differential Equations	
PHYS 211	University Physics: Mechanics	4
PHYS 212	University Physics: Elec & Mag	4
PHYS 214	Univ Physics: Quantum Physics	2
Total Hours		37-39

Chemical Engineering Technical Core

These courses stress fundamental concepts and basic laboratory techniques that comprise the common intellectual understanding of chemical engineering and chemical science.

Course List

Code	Title	Hours
CHBE 221	Principles of CHE	3
CHBE 321	Thermodynamics	4
CHBE 421	Momentum and Heat Transfer	4
CHBE 422	Mass Transfer Operations	4
CHBE 424	Chemical Reaction Engineering	3
CHBE 430	Unit Operations Laboratory	4
CHBE 431	Process Design	4
CHBE 440	Process Control and Dynamics	3
CHEM 236	Fundamental Organic Chem I	4
CHEM 237	Structure and Synthesis	2
CHEM 315	Instrumental Chem Systems Lab	2
Students must register in one of the Chemical Engineering-specific CHEM 315 lab sections.		
CHEM 420	Instrumental Characterization	2
CHEM 442	Physical Chemistry I	4

Code	Title	Hours
CS 101	Intro Computing: Engrg & Sci	3
CHBE 411	Probability and Statistics for ChBE	3-4
or IE 300	Analysis of Data	
or STAT 400	Statistics and Probability I	
Total Hours		49-50

Biomolecular Engineering Concentration Technical Core

Course List

Code	Title	Hours
MCB 450	Introductory Biochemistry	3
Total Hours for Chemical Engineering with Biomolecular Concentration Technical Core		52-53

Biomolecular Engineering Concentration Technical Electives

These courses stress the rigorous analysis and design principles practiced in the major subdisciplines of chemical engineering, embodied in the standard chemical engineering major and biomolecular engineering concentration.

Course List

Code	Title	Hours
Select 18 hours from Category A, Category B, List 1 and List 2, with specific requirements listed below.		
Three Courses from Category A		9
Two Additional Courses from Category A or Category B		6
One additional 400-level course from List 1 or List 2		3
Note: A maximum of 9 hours of UG research credit in CHBE 497 or CHBE 499 may be applied to the total 18 hours of technical elective credit with only 3 of those hours allowed use for Category A requirements. Consult with your advisor to make sure that your research contains sufficient biomolecular content to count as Category A credit.		
Total Hours for Biomolecular Engineering Concentration Technical Electives		18
CATEGORY A		
CHBE 471	Biochemical Engineering	
CHBE 472	Techniques in Biomolecular Eng	
CHBE 473	Biomolecular Engineering	
CHBE 474	Metabolic Engineering	
CHBE 475	Tissue Engineering	
CHBE 476	Biotransport	
CHBE 478	Bioenergy Technology	
CHBE 497	Individual Study for Seniors	
CHBE 499	Senior Thesis	
CATEGORY B		
ABE 436	Renewable Energy Systems	
ABE 483	Engineering Properties of Food Materials	
ABE 488	Bioprocessing Biomass for Fuel	
BIOE 476	Tissue Engineering	

Code	Title	Hours
ECE 467	Biophotonics	
ECE 480	Magnetic Resonance Imaging	
MSE 470	Design and Use of Biomaterials	
MSE 473	Biomolecular Materials Science	
MSE 474	Biomaterials and Nanomedicine	
TAM 461	Cellular Biomechanics	
LIST 1		
Any 400-level CHBE courses, excluding CHBE core courses CHBE 411, CHBE 421, CHBE 422, CHBE 424, CHBE 430, CHBE 431, & CHBE 440.		
ABE 436	Renewable Energy Systems	
ABE 483	Engineering Properties of Food Materials	
ABE 488	Bioprocessing Biomass for Fuel	
ATMS 420	Atmospheric Chemistry	
BIOE 476	Tissue Engineering	
CEE 320	Construction Engineering	
CEE 330	Environmental Engineering	
CEE 350	Water Resources Engineering	
CEE 421	Construction Planning	
CEE 422	Construction Cost Analysis	
CEE 432	Stream Ecology	
CEE 437	Water Quality Engineering	
CEE 440	Fate Cleanup Environ Pollutant	
CEE 442	Environmental Engineering Principles, Physical	
CEE 443	Env Eng Principles, Chemical	
CEE 450	Surface Hydrology	
CEE 452	Hydraulic Analysis and Design	
CHBE 297	Individual Study Sophomores	
CHBE 397	Individual Study for Juniors	
CS 357	Numerical Methods I	
CS 411	Database Systems	
CS 427	Software Engineering I	
CS 440	Artificial Intelligence	
CS 446	Machine Learning	
CS 450	Numerical Analysis	
CS 498	Special Topics	
ECE 304	Photonic Devices	
ECE 313	Probability with Engrg Applic	
ECE 333	Green Electric Energy	
ECE 380	Biomedical Imaging	
ECE 416	Biosensors	
ECE 444	IC Device Theory & Fabrication	
ECE 481	Nanotechnology	
ECE 490	Introduction to Optimization	
ME 400	Energy Conversion Systems	
ME 471	Finite Element Analysis	
ME 482	Musculoskel Tissue Mechanics	
ME 483	Mechanobiology	

Code	Title	Hours
ME 487	MEMS-NEMS Theory & Fabrication	
MSE 304	Electronic Properties of Matls	
MSE 307	Materials Laboratory I	
MSE 308	Materials Laboratory II	
MSE 401	Thermodynamics of Materials	
MSE 402	Kinetic Processes in Materials	
MSE 403	Synthesis of Materials	
MSE 406	Thermal-Mech Behavior of Matls	
MSE 420	Ceramic Materials & Properties	
MSE 441	Metals Processing	
MSE 450	Polymer Science & Engineering	
MSE 457	Polymer Chemistry	
MSE 458	Polymer Physics	
MSE 460	Electronic Materials I	
MSE 470	Design and Use of Biomaterials	
MSE 473	Biomolecular Materials Science	
MSE 474	Biomaterials and Nanomedicine	
MSE 480	Surfaces and Colloids	
MSE 487	Materials for Nanotechnology	
MSE 489	Matl Select for Sustainability	
NPRE 201	Energy Systems	
NPRE 402	Nuclear Power Engineering	
NPRE 412	Nuclear Power Econ & Fuel Mgmt	
NPRE 441	Radiation Protection	
NPRE 442	Radioactive Waste Management	
NPRE 457	Safety Anlys Nucl Reactor Syst	
NPRE 461	Probabilistic Risk Assessment	
NPRE 470	Fuel Cells & Hydrogen Sources	
NPRE 475	Wind Power Systems	
NPRE 480	Energy and Security	
SE 411	Reliability Engineering	
TAM 211	Statics	
TAM 251	Introductory Solid Mechanics	
TAM 461	Cellular Biomechanics	
LIST 2		
ABE 425	Engrg Measurement Systems	
ABE 430	Project Management	
ABE 497	Independent Study	
ABE 498	Special Topics	
ANSC 445	Statistical Methods	
ANSC 450	Comparative Immunobiology	
ATMS 421	Earth Systems Modeling	
BADM 461	Tech, Eng, & Mgt Final Project	
BIOC 446	Physical Biochemistry	
CEE 407	Airport Design	
CEE 497	Independent Study	
CEE 498	Special Topics	

Code	Title	Hours
CHEM 436	Fundamental Organic Chem II	
CHEM 437	Organic Chemistry Lab	
CHEM 444	Physical Chemistry II	
CHEM 445	Physical Principles Lab I	
CHEM 483	Solid State Structural Anlys	
CHEM 497	Individual Study Senior	
CPSC 414	Forage Crops & Pasture Ecology	
CPSC 415	Bioenergy Crops	
CPSC 418	Crop Growth and Management	
CPSC 419	Midwest Agricultural Practices	
CPSC 453	Principles of Plant Breeding	
FSHN 414	Food Chemistry	
FSHN 418	Food Analysis	
FSHN 426	Biochemical Nutrition I	
FSHN 428	Community Nutrition	
FSHN 460	Food Processing Engineering	
FSHN 465	Principles of Food Technology	
FSHN 471	Food & Industrial Microbiology	
FSHN 480	Basic Toxicology	
FSHN 481	Food Processing Unit Operations I	
FSHN 483	Food Processing Unit Operations II	
GEOL 450	Investigating the Earth’s Interior	
GEOL 451	Environmental Geophysics	
GEOL 454	Introduction to Seismology	
GEOL 470	Introduction to Hydrogeology	
IB 451	Conservation Biology	
IS 467	Ethics and Policy for Data Science	
MATH 402	Non Euclidean Geometry	
MATH 413	Intro to Combinatorics	
MATH 417	Intro to Abstract Algebra	
MATH 442	Intro Partial Diff Equations	
MATH 446	Applied Complex Variables	
MATH 461	Probability Theory	
MATH 487	Advanced Engineering Math	
MCB 408	Immunology	
MCB 424	Microbial Biochemistry	
MCB 436	Global Biosecurity	
MCB 450	Introductory Biochemistry	
MCB 462	Integrative Neuroscience	
MSE 497	Independent Study	
MSE 498	Special Topics	
NPRE 483	Seminar on Security	
NPRE 498	Special Topics	
NRES 488	Soil Fertility and Fertilizers	
PHYS 435	Electromagnetic Fields I	
PHYS 470	Subatomic Physics	
SE 400	Engineering Law	

Code	Title	Hours
~~STAT 400~~	~~Statistics and Probability I~~	
STAT 410	Statistics and Probability II	
STAT 420	Methods of Applied Statistics	
STAT 430	Topics in Applied Statistics	
STAT 440	Statistical Data Management	
UP 406	Urban Ecology	
UP 430	Urban Transportation Planning	

Program Relationships

Corresponding Program(s):

Corresponding Program(s)
Chemical Engineering, BS

Program Features

Academic Level: Undergraduate

Is This a Teacher Certification Program?: No

Will specialized accreditation be sought for this program?: No

Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)

Delivery Method

This program is available:

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

Describe how this revision or phase down/elimination will impact enrollment and degrees awarded. If this is an elimination/phase down proposal include the plans for the students left in the program.

There will be no impact on enrollment or degrees awarded.

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

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

There will be no impact on faculty resources for the creation and sustainability of this program/courses due to this revision.

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 significant impact on Library resources for revisions to course programs.

EP Documentation

EP Control Number	EP.25.035
Attach Rollback/ Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name	BS:Chem E: Biomlcr Eng -UIUC
Program Code:	10KV5029BS

Minor Code		Conc Code	5029	Degree Code	BS		Major Code
0300							

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	

Program Reviewer Comments

Brooke Newell (bsnewell) (11/04/24 8:29 am): Rollback: Per conversation and request from Kathy Thomas-Stagg

Brooke Newell (bsnewell) (11/11/24 10:54 am): Per discussion with Kathy Thomas Stagg, I revised the proposal to copy the 40 hour statement from previous revision into Justification and remove courses in the Instructional Resources section that persisted with this revision and shouldn't have.

Brooke Newell (bsnewell) (11/13/24 8:08 am): No U Program Review Comments

Christopher Rao (cvrao) (11/18/24 12:40 pm): Rollback: Was reuested

Key: 734