Deactivation Proposal

Date Submitted: 07/14/23 7:34 am

Viewing: 10KS5369MS : Bioinformatics: Bioengineering, MS

Last approved: 03/14/22 11:43 am

Last edit: 11/17/23 11:57 am

Changes proposed by: Maddie Darling

Catalog Pages Using this Program	Bioinformatics: Bioengineering, MS

Proposal Type:

In Workflow

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

Approval Path

1. 07/19/23 3:10 pm Donna Butler (dbutler): Approved for U Program Review
2. 08/21/23 4:00 pm Wawosz Dobrucki (dobrucki): Approved for 1343 Head
3. 09/22/23 9:26 am Ashley Hallock (ahallock): Approved for KP Committee Chair
4. 09/22/23 9:56 am Michael Stoller (stoller4): Approved for KP Dean
5. 09/29/23 3:26 pm

Claire Stewart (clairest): Approved for University Librarian
6. 11/08/23 4:08 pm Allison McKinney (agrindly): Approved for Grad_College
7. 11/08/23 4:28 pm Suzanne Lee (suzannel): Approved for COTE Programs
8. 11/09/23 12:26 pm Brooke Newell (bsnewell): Approved for Provost

History

1. Sep 6, 2019 by Mary Lowry (lowry)
2. Sep 9, 2019 by Mary Lowry (lowry)
3. Mar 14, 2022 by Mary Lowry (lowry)

Concentration (ex. Dietetics)

This proposal is for a:

~~Revision~~

Phase Down/Elimination

Administration Details

Official Program Name	Bioinformatics: Bioengineering, MS
Diploma Title	
Sponsor College	Grainger College of Engineering

Sponsor Department	Bioengineering
Sponsor Name	Mark Anastasio, Maddie Darling ~~Mary Lowry~~
Sponsor Email	maa@illinois.edu, darling4@illinois.edu ~~lowry@illinois.edu~~
College Contact	Keri Carter Pipkins ~~Mary Lowry~~
College Contact Email	kcp@illinois.edu ~~lowry@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-BIOE, (darling4@illinois.edu); Keri Carter Pipkins-GCOE, (kcp@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)

Eliminate the concentration in Bioengineering in the Master of Science in Bioinformatics in the Grainger College of Engineering 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)."

No.

Program Justification

Provide a brief description of what changes are being made to the	We propose to eliminate the program. We have not had any faculty to teach the program and this is also not an area we plan to hire in. We have never had students enroll in the program; none are currently enrolled.

program.

Historical Context:

The MS in Bioinformatics is an interdisciplinary program with multiple concentrations, currently residing in the i-School. A campus-wide committee oversees the program, including all concentrations. The major courses are common to all the concentrations, and each concentration has department-specific course requirements. Students apply directly to a concentration within the MS in Bioinformatics. This proposal is to deactivate Bioengineering concentration only, thus the courses listed in the Program of Study outside of the BIOE department are not impacted, nor are students in any of the active Bioinformatics, MS concentrations (e.g. CS).

Why are these changes necessary?

We have no capacity to run the program, nor interest to do so.

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.

N/A, as we are proposing to eliminate the program.

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.

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.

~~EP.17.28 attached~~

Statement for Programs of Study Catalog

Thesis Option

Course List

Code	Title	Hours
BIOE 599	Thesis Research (min applied toward degree)	4
BIOE 504	Analytical Methods in Bioeng	4
or BIOE 505	Computational Bioengineering	
Computer Science and Informatics (choose one)		4
CS 411	Database Systems	
CS 466	Introduction to Bioinformatics	
CS 473	Algorithms	
CPSC 565	Perl & UNIX for Bioinformatics	
IS 455	Database Design and Prototyping	
IS 542	Research and Inquiry for Youth	
STAT 428	Statistical Computing	
STAT 440	Statistical Data Management	
STAT 448	Advanced Data Analysis	
STAT 480	Big Data Analytics	
STAT 525	Topics in Computational Statistics	
Fundamental Bioinformatics (choose one)		4

Code	Title	Hours
ANSC 542	Applied Bioinformatics	
ANSC 545	Statistical Genomics	
CHBE 571	Bioinformatics	
CPSC 567	Bioinformatics & Systems Biol	
CS 466	Introduction to Bioinformatics	
IB 467	Principles of Systematics	
MCB 432	Computing in Molecular Biology	
Biology (choose one)		4
ANSC 441	Human Genetics	
ANSC 444	Applied Animal Genetics	
ANSC 446	Population Genetics	
BIOP 401	Introduction to Biophysics	
BIOP 550	Biomolecular Physics	
CPSC 452	Advanced Plant Genetics	
CPSC 466	Genomics for Plant Improvement	
CPSC 563	Chromosomes	
CPSC 564	Course CPSC 564 Not Found	
CPSC 566	Plant Gene Regulation	
MCB 400	Cancer Cell Biology	
MCB 450	Introductory Biochemistry	
MCB 501	Advanced Biochemistry	
MCB 502	Advanced Molecular and Cell Biology	
One course in systems biology from departmental list		3
Elective Courses		9
Total Hours		32

Non-Thesis Option

Course List

Code	Title	Hours
BIOE 504	Analytical Methods in Bioeng	4
or BIOE 505	Computational Bioengineering	
Computer Science and Informatics (choose one)		4
CS 411	Database Systems	
CS 466	Introduction to Bioinformatics	
CS 473	Algorithms	
CPSC 565	Perl & UNIX for Bioinformatics	
IS 455	Database Design and Prototyping	
IS 542	Research and Inquiry for Youth	
STAT 428	Statistical Computing	
STAT 440	Statistical Data Management	
STAT 448	Advanced Data Analysis	
STAT 480	Big Data Analytics	
STAT 525	Topics in Computational Statistics	
Fundamental Bioinformatics (choose one)		4
ANSC 542	Applied Bioinformatics	
ANSC 545	Statistical Genomics	
CHBE 571	Bioinformatics	
CPSC 567	Bioinformatics & Systems Biol	

Code	Title	Hours
CS 466	Introduction to Bioinformatics	
IB 467	Principles of Systematics	
MCB 432	Computing in Molecular Biology	
Biology (choose one)		4
ANSC 441	Human Genetics	
ANSC 444	Applied Animal Genetics	
ANSC 446	Population Genetics	
BIOP 401	Introduction to Biophysics	
BIOP 550	Biomolecular Physics	
CPSC 452	Advanced Plant Genetics	
CPSC 466	Genomics for Plant Improvement	
CPSC 563	Chromosomes	
CPSC 564	Course CPSC 564 Not Found	
CPSC 566	Plant Gene Regulation	
MCB 400	Cancer Cell Biology	
MCB 450	Introductory Biochemistry	
MCB 501	Advanced Biochemistry	
MCB 502	Advanced Molecular and Cell Biology	
One course in systems biology from departmental list		3
Elective Courses		17
Total Hours		36

Other Requirements

Grad Other Degree Requirements

Requirement	Description
Other Requirements and Conditions may overlap	
A concentration is required.	
A minimum of 12 500-level credit hours overall applied toward the degree, with 8 hours being Bioengineering courses; a maximum of 2 hours of seminar courses can be counted to towards these 12 hours.	
The non-thesis option is only available with permission of the advisor. Requirements include an additional 8 hours of elective courses which, with the approval of an advisor, may include supervised research experiences including internships and projects.	
Minimum GPA:	3.0

Program Relationships

Corresponding Program(s):

Corresponding Program(s)
Bioinformatics, MS

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

Enrollment

List the prerequisites including course titles and number of credit hours for each prerequisite course, and whether or not these prerequisites count in the total hours required for the minor.

Phase Down/Elimination Enrollment

Does this program currently have enrollment? No

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.

We have never had any students in the program.

Number of Students in Program (estimate)

Year One Estimate

5th Year Estimate (or when fully implemented)

Budget

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

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 as the program has not been offered.

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 phase down/elimination of this program should not impact any library resources.

EP Documentation

EP Control Number	EP.24.048
Attach Rollback/Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	MS:Bioinformatics:Bioeng -UIUC
Program Code:	10KS5369MS

Minor Code		Conc Code	5369	Degree Code	MS	Major Code	4026

Senate Approval Date	
Senate Conference Approval Date	
BOT Approval Date	
IBHE Approval Date	
HLC Approval Date	
DOE Approval Date	
Effective Date:	
Attached Document Justification for this request	
Program Reviewer Comments	**Brooke Newell (bsnewell) (11/14/22 2:08 pm):** Rollback: email to Maddie **Brooke Newell (bsnewell) (07/13/23 12:21 pm):** Rollback: Requested revisions to Justification and Library Resources. Detailed email sent to Maddie Darling and Keri Carter Pipkins

Key: 619