Deactivation Proposal

Date Submitted: 11/18/22 10:51 am

Viewing: **5562 : Biomechanics Concentration - Floating**

Last approved: 06/25/19 11:28 am

Last edit: 02/07/23 12:34 pm

Changes proposed by: Maddie Darling

Catalog Pages Using this Program	Biomechanics

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. **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. 11/21/22 9:48 am Deb Forgacs (dforgacs): Approved for U Program Review
2. 11/21/22 2:06 pm Mark Anastasio (maa): Approved for 1343 Head
3. 12/06/22 1:48 pm Keri Pipkins (kcp): Approved for KP Committee Chair
4. 12/06/22 1:52 pm Cindy Pruitt (cpruitt): Approved for KP Dean
5. 12/07/22 8:54 am Chris Prom (prom): Approved for University

Librarian
6. 02/01/23 3:33 pm
Allison McKinney (agrindly): Approved for Grad_College
7. 02/07/23 11:27 am
Brooke Newell (bsnewell): Approved for Provost

History

1. Jun 25, 2019 by Deb Forgacs (dforgacs)

Concentration (ex. Dietetics)

This proposal is for a:
Phase Down/Elimination

Administration Details

Official Program Name	Biomechanics Concentration - Floating		
Diploma Title			
Sponsor College	Grainger College of Engineering		
Sponsor Department	Bioengineering		
Sponsor Name	Mark Anastasio, Maddie Darling		
Sponsor Email	maa@illinois.edu, darling4@illinois.edu		
College Contact	Keri Carter Pipkins	College Contact Email	kcp@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.

Maddie Darling-BIOE, (darling4@illinois.edu); Keri Carter Pipkins-GCOE (kcp@illinois.edu)

Does this program have inter-departmental administration?

No ~~Yes~~

Proposal Title

Effective Catalog Term	Fall 2023

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 Biomechanics 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)."

Program Justification

Provide a brief description of what changes are being made to the program.	Eliminating the biomechanics concentration from all associated programs.

Why are these changes necessary?

We have not received any interest from students and have not admitted students into this concentration in several years. Since its approval in 2015, one student has enrolled in the biomechanics concentration (PhD in MechSE). In addition, concentration classes have not been taught for several years:

BIOE 406 (Bone Biology and Biomechanics) – Never offered
BIOE 479 (Cancer Nanotechnology) – Course not approved for graduate credits
PHYS 475 (Biological Physics) – last offered Fall 2017
ECE/ME 485 (Intro to Electromechanical Devices and Systems) – last offered Fall 2017

Bioengineering students are not enrolled in this concentration. Graduate programs staff from impacted programs (MechSE, ECE and MatSE) have confirmed that they also do not have any students enrolled in this concentration and terminating this concentration will not impact their programs (letters attached).

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?

Yes

Please describe:

The biomechanics concentration will no longer be offered on campus, letters of support from each impacted department are attached.

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 446 - Biological Nanoengineering
ME 483 - Mechanobiology
MSE 474 - Biomaterials and Nanomedicine
PHYS 550 - Biomolecular Physics
TAM 461 - Cellular Biomechanics

Please attach any letters of support/acknowledgement for any Instructional Resources

GCC Biomech.pdf
ECE Letter.pdf
MSE Letter Biomech.pdf
MechSE Letter Biomech.pdf
ABE Biomechanics.pdf
PHYS Biomechanics.pdf

consider faculty, students, and/or other impacted units as appropriate.

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.

Not applicable

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.

Statement for

Programs of Study Catalog	Course List		
	Code	Title	Hours
	Current course options include:		
	ABE 446	Biological Nanoengineering	
	BIOE 482	Musculoskel Tissue Mechanics	
	ME 483	Mechanobiology	
	MSE 474	Biomaterials and Nanomedicine	
	PHYS 550	Biomolecular Physics	
	TAM 461	Cellular Biomechanics	
	Alternate courses may be applicable to the Biomechanics Concentration pending joint approval by the Bioengineering and Mechanical Science and Engineering Graduate Programs.		
	Total hours required for the concentration:		12

Grad Other Degree Requirements

Requirement	Description
Courses taken toward this concentration will count toward the student's graduate degree.	
Students must notify their department of their plan to pursue this concentration.	
When choosing courses, students must work directly with their department to ensure that all degree requirements will be met.	
Note that students who intend to complete both a Biomechanics Concentration and a Cancer Nanotechnology Concentration may only overlap one course between the two concentrations.	

Program Relationships

Corresponding Program(s):

Corresponding Program(s)
Bioengineering, MS
Bioengineering, PhD
Bioinformatics: Bioengineering, MS
Electrical & Computer Engineering, MS
Electrical and Computer Engineering, PhD
Materials Engineering, MEng
Materials Science & Engineering, BS and Materials Science & Engineering, MS
JP: Materials Science & Engineering, BS and Materials Engineering, MEng
Materials Science & Engineering, MS
Materials Science and Engineering, PhD
JP: Mechanical Engineering BS & MS
Mechanical Engineering, MEng (on campus & online)
Mechanical Engineering, MS
Mechanical Engineering, PhD
Theoretical & Applied Mechanics, MS
Theoretical & Applied Mechanics, 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 - 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.

There are no students enrolled in the program; the elimination of this concentration will not impact degrees awarded.

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.

This elimination does not impact 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 this eliminiation proposal.

EP Documentation

EP Control Number	EP.23.039
Attach Rollback/Approval Notices	
This proposal requires HLC inquiry	No

DMI Documentation

Attach Final Approval Notices	
Banner/Codebook Name	Biomechanics

Program Code: 5562

Minor Code	Conc Code	5562	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:

Attached Document Justification for this request

Program Reviewer Comments

Key: 784

ILLINOIS

THE GRAINGER COLLEGE OF ENGINEERING

Department of Bioengineering
1102 Everitt Laboratory, MC-278
1406 W. Green St.
Urbana, IL 61801

November 1, 2022

Mark Anastasio
Donald Biggar Willett Professor in Engineering
Head, Department of Bioengineering

Dear Mark,

I am writing in my capacity as the Chair of the Graduate Executive Committee to notify you that the committee voted to permanently remove the Biomechanics concentration from the graduate programs.

There are no students currently enrolled or being admitted to this concentration, and there are classes included in the concentration that are not active at this time, which would require revisions of the concentration curriculum. Therefore, the Executive Committee has now voted to eliminate this concentration from our graduate programs.

Sincerely,

Wawrzyniec L. Dobrucki

Associate Professor of Bioengineering and Medicine

Associate Head of Graduate Programs

ILLINOIS

THE GRAINGER COLLEGE OF ENGINEERING
Department of Electrical & Computer Engineering
2120 Electrical & Computer Engineering Building, MC-702
306 N. Wright St.
Urbana, IL 61801-2991

October 25, 2022

Prof. Mark Anastasio
Head, Department of Bioengineering
1406 W. Green St.
Urbana, IL 61801

Dear Mark,

The Department of Electrical and Computer Engineering supports the termination of the biomechanics and cancer nanotechnology graduate concentrations effective AY2023-24. There are no students currently enrolled or being admitted to these concentrations. Thank you.

Sincerely,

Bruce Hajek

Bruce Hajek
Head, Department of Electrical and Computer Engineering
Center for Advanced Study Professor of Electrical and Computer Engineering
Hoeft Endowed Chair in Engineering
Professor, Coordinated Science Laboratory

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

The Grainger College of Engineering
Department of Materials Science & Engineering
201 Materials Science & Engineering Building, MC-246
1304 W. Green St.
Urbana, IL 61801

November 3, 2022

To: Prof. Mark Anastasio – Head, Department of Bioengineering

From: Prof. Nancy Sottos – Head, Materials Science and Engineering

Dear Mark,

The Department of Materials Science and Engineering supports the termination of the biomechanics and cancer nanotechnology graduate concentrations effective AY2023-24. There are no students currently enrolled or being admitted to these concentrations. Thank you.

Best regards,

Nancy Sottos
Head, Department of Materials Science and Engineering

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

217.333.1441 • matse.illinois.edu

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ILLINOIS

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

3 November 2011

Professor Mark Anastasio
Head, Department of Bioengineering

Dear Mark,

The Department of Mechanical Science & Engineering supports the termination of the biomechanics and cancer nanotechnology graduate concentrations effective AY2023-24. There are no students currently enrolled or under consideration for future admission to these concentrations. Thank you.

Best regards,

Anthony M. Jacobi
Richard W. Kritzer Distinguished Professor, and
Head, Department of Mechanical Science & Engineering

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
217.333.4108 • a-jacobi@illinois.edu • mechse.illinois.edu

[redacted]

[redacted]

[redacted]

[redacted]

From: "Grosse Perdekamp, Matthias" <mgp@illinois.edu>
Date: Thursday, November 17, 2022 at 2:34 PM
To: "Anastasio, Mark -- BIOE Department Head" <bioe-head@illinois.edu>
Cc: "Bowman, Liezl" <liezlb@illinois.edu>
Subject: RE: Concentration termination

Dear Donna,
Yes we did, and of course this will be fine.
Best,
Matthias

Matthias Grosse Perdekamp
Professor and Head
Department of Physics
University of Illinois – Urbana Champaign
+1 217 333 6544, mgp@illinois.edu

From: Anastasio, Mark -- BIOE Department Head <bioe-head@illinois.edu>
Sent: Thursday, November 17, 2022 2:18 PM
To: Grosse Perdekamp, Matthias <mgp@illinois.edu>
Cc: Bowman, Liezl <liezlb@illinois.edu>
Subject: RE: Concentration termination

Hi Prof. Perdekamp,

I may have missed your response to this particular notification regarding the elimination of our biomechanics and cancer nanotechnology graduate concentrations.

Could you kindly just reply that you've received this information?

Thank you,
Donna

From: Anastasio, Mark -- BIOE Department Head
Sent: Tuesday, November 1, 2022 1:55 PM
To: Grosse Perdekamp, Matthias <mgp@illinois.edu>
Cc: Anastasio, Mark A <maa@illinois.edu>
Subject: Concentration termination

Dear Prof. Perdekamp,

Per the campus process for revising and eliminating academic degree program concentration options, we are writing you to communicate a program change that minimally impacts your department course(s).

The department of bioengineering is eliminating the biomechanics and cancer nanotechnology graduate concentrations (https://bioengineering.illinois.edu/academics/graduate/PhD/concentrations). These concentrations were administratively managed by the Department of Bioengineering and listed in the academic catalog as concentration options for graduate students in bioengineering, mechanical science and engineering and electrical engineering.

The following class was listed as a course option toward completion of these concentrations:

- PHYS 475 – Biological Physics

Because of this concentration termination, the department will no longer request access to the listed course under the biomechanics and cancer-nanotechnology concentration options.

Please reach out with any concerns and confirm your acknowledgement of this change.

Thank you,

Mark

MARK ANASTASIO
Donald Biggar Willett Professor in Engineering
Head, Department of Bioengineering
Affiliate Professor, Department of Computer Science
Affiliate Professor, Department of Electrical and Computer Engineering
Affiliate Professor, Carle Illinois College of Medicine
Member, Beckman Institute for Advanced Science and Technology

Department of Bioengineering | The Grainger College of Engineering
1406 W. Green Street | 1102G Everitt Lab, MC 278 | Urbana, IL 61801
(P) 217.300.0314 | maa@illinois.edu
https://bioengineering.illinois.edu/
Lab Website: https://anastasio.bioengineering.illinois.edu

[redacted]

From: "Maghirang, Ronaldo G" <ronaldom@illinois.edu>
Date: Thursday, November 17, 2022 at 3:58 PM
To: "Anastasio, Mark -- BIOE Department Head" <bioe-head@illinois.edu>
Cc: "Bowman, Liezl" <liezlb@illinois.edu>
Subject: RE: Concentration termination

Dear Professor Anastasio,

This is to acknowledge receipt of your notification regarding the elimination of our biomechanics and cancer nanotechnology graduate concentrations.

Thank you.

Ronaldo

From: Anastasio, Mark -- BIOE Department Head <bioe-head@illinois.edu>
Sent: Thursday, November 17, 2022 2:16 PM
To: Maghirang, Ronaldo G <ronaldom@illinois.edu>
Cc: Bowman, Liezl <liezlb@illinois.edu>
Subject: FW: Concentration termination

Hi Professor Maghirang,

I may have missed your response on this particular notification regarding the elimination of our biomechanics and cancer nanotechnology graduate concentrations.

Could you kindly just reply that you've received this information?

Thank you,

[redacted]

Donna

From: Anastasio, Mark -- BIOE Department Head
Sent: Tuesday, November 1, 2022 1:54 PM
To: Maghirang, Ronaldo G <ronaldom@illinois.edu>
Subject: Concentration termination

Dear Prof. Maghirang,

Per the campus process for revising and eliminating academic degree program concentration options, we are writing you to communicate a program change that minimally impacts your department course(s).

The department of bioengineering is eliminating the biomechanics and cancer nanotechnology graduate concentrations (https://bioengineering.illinois.edu/academics/graduate/PhD/concentrations). These concentrations were administratively managed by the Department of Bioengineering and listed in the academic catalog as concentration options for graduate students in bioengineering, mechanical science and engineering and electrical engineering.

The following class was listed as a course option toward completion of these concentrations:

- ABE 446 – Biological Nanoengineering

Because of this concentration termination, the department will no longer request access to the listed course under the biomechanics and cancer-nanotechnology concentration options.

Please reach out with any concerns and confirm your acknowledgement of this change.

Thank you,

Mark

MARK ANASTASIO
Donald Biggar Willett Professor in Engineering
Head, Department of Bioengineering
Affiliate Professor, Department of Computer Science
Affiliate Professor, Department of Electrical and Computer Engineering
Affiliate Professor, Carle Illinois College of Medicine
Member, Beckman Institute for Advanced Science and Technology

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