

Deactivation Proposal

Date Submitted: 11/21/22 9:59 am

Viewing: **5563 : Cancer Nanotechnology Concentration - Floating**

Last approved: 06/10/19 4:14 pm

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

Changes proposed by: Maddie Darling

[Cancer Nanotechnology Graduate Concentration](#)

Catalog Pages
Using this
Program

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 10:01 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 1:49 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 8:55 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 11:28
am
Brooke Newell
(bsnewell):
Approved for
Provost

History

1. Jun 10, 2019 by
Deb Forgacs
(dforgacs)

Concentration (ex. Dietetics)

This proposal is
for a:

[Phase Down/Elimination](#)

Administration Details

Official Program Name	Cancer Nanotechnology 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 \(darling4@illinois.edu\)](mailto:darling4@illinois.edu); [Keri Carter Pipkins-GCOE \(kcp@illinois.edu\)](mailto:kcp@illinois.edu)

Does this program have inter-departmental administration?

No

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 Cancer Nanotechnology 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.

We are eliminating the Cancer Nanotechnology concentration.

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, there were only 2 students who have enrolled (1 BIOE PhD and 1 BIOE MS). In addition, concentration classes have not been taught for several years:

BIOE 479 (Cancer Nanotechnology) – not approved for graduate credit
ECE/ME 485 (Intro to Electromechanical Devices and Systems) – last offered Fall 2017
BIOE 498 RB (Cancer Science and Technology) – has not been offered for several years

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 cancer nanotechnology concentration will no longer be offered.](#)

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

[MCB 400 - Cancer Cell Biology](#)

[ABE 446 - Biological Nanoengineering](#)

[FSHN 480 - Basic Toxicology](#)

[ECE 485 - MEMS Devices & Systems](#)

[ME 483 - Mechanobiology](#)

[ME 487 - MEMS-NEMS Theory & Fabrication](#)

[ME 586 - Mechanics of MEMS](#)

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

[ECE Letter.pdf](#)
[MCB 400 Course Support Letter \(biomech cancer nanotech\).pdf](#)
[FSHN.pdf](#)
[MSE Letter Biomech.pdf](#)
[MechSE Letter Biomech.pdf](#)
[GCC Cancer Nanotech.pdf](#)

consider faculty, [ABE Biomechanics.pdf](#)
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 The Cancer Nanotechnology Concentration requires students to earn a B or better in each concentration course. Students must complete 12 credit hours, including at least one core Cancer course and one core Nanotechnology course. Participants may take a second core Cancer course and/or a second core Nanotechnology course as an elective. Fulfillment of these requirements will be monitored by the graduate coordinator in Bioengineering.

Course List

Code	Title	Hours
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Core Cancer Classes

[BIOE 498](#) Special Topics (Section RB, Cancer Science and Technology)

[MCB 400](#) Cancer Cell Biology

Core Nanotechnology Classes

[ABE 446](#) Biological Nanoengineering

[BIOE 416](#) Biosensors

[ECE/ME 485](#) MEMS Devices & Systems

Elective Courses

[FSHN 480](#) Basic Toxicology

[ME 483](#) Mechanobiology

[ME 487](#) MEMS-NEMS Theory & Fabrication

[ME 586](#) Mechanics of MEMS

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, MS
Materials Science and Engineering, PhD
Mechanical Engineering, MEng (on campus & online)
Mechanical Engineering, MS
Mechanical Engineering, PhD

Corresponding Program(s)
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 No currently have enrollment?

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)
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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 elimination proposal.

EP Documentation

EP Control Number EP.23.040

Attach
Rollback/Approval
Notices

This proposal No
requires HLC
inquiry

DMI Documentation

Attach Final
Approval Notices

Banner/Codebook Name Cancer Nanotechnology

Program Code: 5563

Minor Code	Conc Code	5563	Degree Code	Major Code
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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 **Deb Forgacs (dforgacs) (11/21/22 9:47 am):** Rollback: Phase Down questions.

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 Cancer Nanotechnology 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



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,

A handwritten signature in black ink, appearing to read 'Anthony M. Jacobi', written in a cursive style.

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



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





Darling, Maddie

From: Anastasio, Mark -- BIOE Department Head
Sent: Tuesday, November 1, 2022 4:38 PM
To: Bowman, Liezl; Darling, Maddie; Layne, Sarah
Cc: Goodrum, Autumn
Subject: FW: Concentration termination

FYI

From: Engeseth, Nicki <engeseth@illinois.edu>
Sent: Tuesday, November 1, 2022 3:21 PM
To: Anastasio, Mark -- BIOE Department Head <bioe-head@illinois.edu>
Cc: Anastasio, Mark A <maa@illinois.edu>
Subject: RE: Concentration termination

Dear Prof. Anastasio,

Thank you for letting us know. We appreciate this information, and I will make sure the instructor of that course is aware.

Best,
Nicki

Nicki J. Engeseth, Ph.D. | Professor and Head

Department of Food Science & Human Nutrition | University of Illinois
260 A Bevier Hall, 905 S. Goodwin, Urbana, IL 61801
Phone: (217)244-6788

From: Anastasio, Mark -- BIOE Department Head <bioe-head@illinois.edu>
Sent: Tuesday, November 1, 2022 1:56 PM
To: Engeseth, Nicki <engeseth@illinois.edu>
Cc: Anastasio, Mark A maa@illinois.edu
Subject: Concentration termination

Dear Prof. Engeseth,

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:

- FSHN 480 – Basic Toxicology

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>

Darling, Maddie

From: Anastasio, Mark -- BIOE Department Head
Sent: Wednesday, November 2, 2022 8:14 AM
To: Bowman, Liezl; Darling, Maddie; Layne, Sarah; Goodrum, Autumn
Subject: FW: Concentration termination

Good morning and fyi.
Donna

From: Prasanth, Supriya <supriyap@illinois.edu>
Sent: Tuesday, November 1, 2022 6:42 PM
To: Anastasio, Mark -- BIOE Department Head <bioe-head@illinois.edu>
Subject: Re: Concentration termination

Thanks, Mark.
Supriya

From: Anastasio, Mark -- BIOE Department Head <bioe-head@illinois.edu>
Sent: Tuesday, November 1, 2022 1:55 PM
To: Prasanth, Supriya <supriyap@illinois.edu>
Cc: Anastasio, Mark A <maa@illinois.edu>
Subject: Concentration termination

Dear Prof. Prasanth,

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:

- MCB 400 – Cancer Cell Biology

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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<https://bioengineering.illinois.edu/>

Lab Website: <https://anastasio.bioengineering.illinois.edu>

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
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

[REDACTED]

[REDACTED]

[REDACTED]

[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,

█

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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