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EP.21.024
November 16, 2020

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

EP.21.024 Report of Administrative Approvals through November 9, 2020

Senate committees are authorized to act for and in the name of the Senate on minor matters. Below is a listing of the administrative approvals the Senate Committee on Educational Policy approved at its meeting on November 9, 2020. Additional information for each approval is attached.

A. Graduate Programs

1) **Animal Sciences concentration in the MS in Bioinformatics** – in the list of Computer Science and Informatics courses from which students are to choose one course (4 hours), *remove* IS 542, Research and Inquiry for Youth (4 hours) and *add* IS 507, Data, Statistical Models and Information. There is no change in total hours required for the program.

10KS5099MS: BIOINFORMATICS: ANIMAL SCIENCES, MS

In Workflow

1. U Program Review (dforgacs@illinois.edu; eastuby@illinois.edu; aledward@illinois.edu)
2. 1538 Committee Chair (adilger2@illinois.edu)
3. 1538 Head (rwjohn@illinois.edu; jrevans@illinois.edu)
4. KL Committee Chair (bjgray2@illinois.edu)
5. KL Dean (aball@illinois.edu)
6. University Librarian (jpwilkin@illinois.edu)
7. Grad_College (agrindly@illinois.edu; jch@illinois.edu; lowry@illinois.edu)
8. Provost (kmartens@illinois.edu)
9. Senate EPC (bjlehman@illinois.edu; kmartens@illinois.edu; moorhouz@illinois.edu)
10. Senate (jtempel@illinois.edu)
11. U Senate Conf (none)
12. Board of Trustees (none)
13. IBHE (none)
14. DMI (eastuby@illinois.edu; aledward@illinois.edu; dforgacs@illinois.edu)

Approval Path

1. Thu, 22 Oct 2020 21:22:15 GMT
   Deb Forgacs (dforgacs): Approved for U Program Review
2. Thu, 22 Oct 2020 21:52:01 GMT
   Anna Dilger (adilger2): Approved for 1538 Committee Chair
3. Mon, 02 Nov 2020 14:57:46 GMT
   Rodney W. Johnson (rwjohn): Approved for 1538 Head
4. Mon, 02 Nov 2020 15:14:25 GMT
   Brianna Gregg (bjgray2): Approved for KL Committee Chair
5. Mon, 02 Nov 2020 15:17:10 GMT
   Anna Ball (aball): Approved for KL Dean
6. Mon, 02 Nov 2020 15:25:31 GMT
   John Wilkin (jpwilkin): Approved for University Librarian
7. Wed, 04 Nov 2020 18:40:54 GMT
   Allison McKinney (agrindly): Approved for Grad_College
8. Thu, 05 Nov 2020 21:28:20 GMT
   Kathy Martensen (kmartens): Approved for Provost

History

1. Sep 5, 2019 by Mary Lowry (lowry)
2. Sep 6, 2019 by Mary Lowry (lowry)

Date Submitted:Thu, 22 Oct 2020 21:19:54 GMT

Viewing:10KS5099MS : Bioinformatics: Animal Sciences, MS

Changes proposed by: Sandra Rodriguez-Zas

Proposal Type

Proposal Type:

Concentration (ex. Dietetics)

This proposal is for a:

Revision

Proposal Title:

If this proposal is one piece of a multi-element change please include the other impacted programs here.*example: A BS revision with multiple concentration revisions*

Administrative approval: Revise the Animal Sciences concentration in the MS in Bioinformatics to update IS 542 to IS 507

EP Control Number

EP.21.024

Official Program Name

Bioinformatics: Animal Sciences, MS

Effective Catalog Term

Spring 2021

Sponsor College

Agr, Consumer, & Env Sciences

Sponsor Department

Animal Sciences

Sponsor Name

Sandra Rodriguez Zas

Sponsor Email

rodrgzzs@illinois.edu

College Contact

Brianna Gregg

College Contact Email

bjgray2@illinois.edu

Program Description and Justification

Justification for proposal change:

Update IS 5432 with new number due to the iSchool renumbering their courses

Corresponding Program(s):

Corresponding Program(s)
Bioinformatics, MS

Academic Level

Graduate

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

Enrollment

Describe how this revision will impact enrollment and degrees awarded.

N/A

What is the typical time to completion of this program?

2

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

32

Delivery Method

Is this program available on campus and online?

No

This program is available:

On Campus

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

Resource Implications

Facilities

Will the program require new or additional facilities or significant improvements to already existing facilities?

No

Technology

Will the program need additional technology beyond what is currently available for the unit?

No

Non-Technical Resources

Will the program require additional supplies, services or equipment (non-technical)?

No

Resources

For each of these items, be sure to include in the response if the proposed new program or change will result in replacement of another program(s). If so, which program(s), what is the anticipated impact on faculty, students, and instructional resources? Please attach any letters of support/ acknowledgement from faculty, students, and/or other impacted units as appropriate.

Faculty Resources

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

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

Instructional Resources

Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?

No

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

No

Financial Resources

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

No

Is this program requesting self-supporting status?

No

Program Regulation and Assessment

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

Students and faculty are surveyed about coursework, seminar and research experiences.

Is the career/profession for graduates of this program regulated by the State of Illinois?

No

Program of Study

"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.

All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.

Attach a side-by-side comparison with the existing program AND, if the revision references or adds "chose-from" lists of courses students can select from to fulfill requirements, a listing of these courses, including the course rubric, number, title, and number of credit hours.

Catalog Page Text

Statement for Programs of Study Catalog

Thesis Option

Code	Title	Hours
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	Molecular Marker Data Analyses	
CPSC 566	Plant Gene Regulation	
MCB 400	Cancer Cell Biology	
MCB 450	Introductory Biochemistry	
MCB 501	Advanced Biochemistry	
MCB 502	Advanced Molecular Genetics	
Fundamental Bioinformatics (choose one)		4
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	
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	
IS 507	Data, Statistical Models and Information	
STAT 428	Statistical Computing	
STAT 440	Statistical Data Management	
STAT 448	Advanced Data Analysis	
STAT 480	Data Science Foundations	
STAT 525	Computational Statistics	
Graduate seminar (ANSC 590) enrollment is required every semester (max 2 hours can be applied to the degree)		2
ANSC 599	Thesis Research (min/max applied toward degree)	8
Electives		14
Total Hours		36

Other Requirements

Requirement
Other Requirements and conditions may overlap
A concentration is required.

Minimum Hours Overall Required Within the Unit: 8

Minimum 500-level Hours Required Overall: 12

A comprehensive oral examination concerning the thesis and other areas of Bioinformatics and Animal Sciences is required.

Thesis Deposit Required: Yes

Minimum GPA: 3.0

EP Documentation

DMI Documentation

Banner/Codebook Name

MS: Bioinformatics: AnSci-UIUC

Program Code:

10KS5099MS

Conc Code

5099

Degree Code

MS

Major Code

4026

Program Reviewer Comments

Kathy Martensen (kmartens) (Thu, 05 Nov 2020 21:27:45 GMT): Admin approval: No change to total hours required or restriction of student options.

Key: 582