

# MICHIGAN STATE UNIVERSITY

March 28, 2019

## MEMORANDUM

TO: Dr. Mark Largent, Interim Associate Provost for Undergraduate Education and Dean of Undergraduate Studies

FROM: Dr. John Gaboury, Associate Provost for Academic Services, Enrollment Management, and Academic Initiatives

RE: Request to Change the Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees in the College of Natural Science

For Transmittal to the University Committee on Undergraduate Education (UCUE)

The request referenced above is being sent to you for action by the University Committee on Undergraduate Education (UCUE).

UCUE Response Requested:

Please ask the UCUE to consider the request referenced above. Please mail the related materials referenced under the heading Attachments at the end of this memorandum to the members of the UCUE.

The academic program and course requests referenced above will be included on the agenda for the April 16, 2019 meeting of Subcommittee A, University Committee on Curriculum (UCC). Requests that are approved by Subcommittee A on April 16 will be before the Full Committee, UCC, for action on April 25, 2019. Requests that are approved by the Full Committee on April 25 will be included in the September, 2019, Report of the UCC to the Faculty Senate.

If you have any questions about this memorandum or the attached materials, please call me at 5-8420.

Thank you for your help.

Attachments:

1. Entry for the April 16, 2019 meeting of Subcommittee A.
2. Request for Changes in an Academic Program forms dated February 20, 2019: Graduation Requirements for the Bachelor of Arts and Bachelor of Science Degrees in the College of Natural Science and attachments.
3. Draft, of the work copy for the Academic Programs section of the University catalog: Graduation Requirements, pages 1 - 2 .

s:\share\ucuenscgradreq



## University Curriculum and Catalog

Hannah Admin. Building  
426 Auditorium Road  
Room 439  
East Lansing, MI 48824

517-355-8420  
Fax: 517-355-9601

## **COLLEGE OF NATURAL SCIENCE**

1. Request to change the **Graduation Requirements for the Bachelor of Arts and Bachelor of Science** degree in the **College of Natural Science**. The University Committee on Undergraduate Education (UCUE) will consider this request.
  - a. Under the heading **Graduation Requirements** make the following change:
    - (1) Replace item 2. c. with the following:

A minimum of 30 credits in courses numbered 300 and above.

Effective Fall 2019.



Michigan State University Office of the Registrar

Program Name: Natural Science - Graduation Requirements Degree: BS      Sequence Number: 3	Program Request ID: 3894
Effective Dates: Fall 2019 - Open	Status: Interim      Initial Action: Change
Requested Date: 2/20/2019 11:18:47 AM	
<p><b>1. Department/School/College:</b> 32604 .... College of Natural Science</p> <p><b>2. Name of Program:</b> Natural Science - Graduation Requirements</p> <p><b>3. Name of Degree:</b> BS</p> <p><b>4. Type of Program:</b></p> <p><b>5. Effective Start Semester:</b> Prev: Fall 2015 New: Fall 2019</p> <p><b>6. Target student audience for the program:</b></p> <p><b>7. Enrollment:</b> What is the expected enrollment per year: 600  What is the minimum enrollment acceptable: 100</p> <p><b>8. Source of budget for the program:</b> To align academic planning and curricular change, ALL requests for NEW funds must be included in the College's annual planning letter. Provost approval of new funds and the effective date for the new program must align. If funding is not approved, then the program request will not be forwarded to Faculty Senate.  Internal reallocation</p>	

If new funds, was this request included in the College's annual planning letter?  
Indicate yes or no. If no, then this is a department or college fund reallocation (If the program is implemented, no additional resources are required.).

**9. Projected Costs as compared to other programs in unit:**

Higher

**10. Staff requirement:**

How many additional staff will be required: 0

Who will provide the primary instruction. Describe any external linkages(industry, government, etc.):

**11. Will additional equipment be required:**

Approximate cost: 0

Source of funding:

**12. Will additional library materials be required:**

Approximate cost: 0

Source of funding: no additional library materials will be required

**13. Will additional space be required:**

Type:

Approximate amount:

**14. If the program requirements contain a named concentration, do you wish for the concentration to be noted on the student's transcript?:**

No

**15. Detailed Description:**

***Graduation Requirements***

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* (<https://reg.msu.edu/AcademicPrograms/Text.aspx?Section=110>) section of this catalog.

Students who are enrolled in majors leading to Bachelor of Science and Bachelor of Arts degrees in the College of Natural Science may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of:

- a. One course in Biological Science, Entomology, Integrative Biology, Microbiology, Physiology, or Plant Biology.
- b. Chemistry 141 or 151 or 181H.
- c. Two credits of laboratory experience in biological or physical science.

Credits earned in courses in the alternative track may also be counted toward College and major requirements for Bachelor of Science and Bachelor of Arts degrees.

2. The requirements of the College of Natural Science for the **Bachelor of Science and Bachelor of Arts** degrees that are listed below:

- a. The requirements for either a **departmental** major or an **interdepartmental** major of 27 to 79 credits. For specific requirements, see the sections that follow.
  - b. A minimum grade–point average of 2.00 in courses in the student's major; i.e., in all courses that are required for the major and that are not counted toward College and University requirements.
  - c. The following credit distribution requirements:
    1. A minimum of 30 credits in courses numbered 300 and above.
    2. ~~A maximum of 67 credits in courses offered in a single curriculum division of the College; i.e., Biological Science or Mathematical Science or Physical Science.~~
  - d. Only credits in courses graded on the numerical or Pass–No Grade system may be counted toward College and major requirements for Bachelor of Science and Bachelor of Arts degrees in the College of Natural Science. College of Natural Science students may not enroll in courses that are to be counted toward College and major requirements, including courses in other colleges, on a Credit–No Credit basis.
3. The requirements of the College of Natural Science for **either** the Bachelor of Science degree **or** the Bachelor of Arts degree that are listed below:
- a. Requirements for the **Bachelor of Science** degree:
    1. One semester of calculus.
    2. A second semester of calculus or one semester of statistics and probability.
    3. Two semesters of chemistry including at least one laboratory experience.
    4. Two semesters of physics.
    5. One semester of biological science.
  - b. Requirements for the **Bachelor of Arts** degree:
    1. One semester of calculus.
    2. A second semester of calculus or one semester of statistics and probability.
    3. One semester **each** of biological science, chemistry, and physics including at least one laboratory experience.
    4. Six credits in courses in the arts and humanities or the social, behavioral, and economic sciences beyond the credits that are counted toward the University's Integrative Studies requirement.

Many major programs which lead to a Bachelor of Science degree require a proficiency greater than the College established minimum in one, or more, of the following fields: chemistry, physics, and mathematics. Also, for either the Bachelor of Arts or the Bachelor of Science degree, when two or more options exist for the fulfillment of any College— established requirement, one of the options may be specified as a major requirement. The specific requirements for each major program are given in the sections that follow.

Chemistry and mathematics requirements should be completed to the fullest extent possible during the freshman and sophomore years. Bachelor of Science candidates with a major in a physical science should complete the physics requirement during the sophomore year. Students with a major in a biological science may postpone completion of the physics requirement until the junior year, but should complete Biological Science 161, 162 by the end of the sophomore year. The biology courses should be completed during the freshman year because they are prerequisites to most of the courses offered by the departments in the biological sciences. All students should complete the University's Tier I writing requirement during the freshman year.

**16. Are there admissions requirements for this program?:**

Grade or grade-point average requirements and if so in which course(s), portfolio

requirement, audition, essay, etc. If there are not admission requirements other than those required by the University policy indicate "none".

none

**17. Type(s) of change(s):**

Removing wording

**18. Students who will be affected by the proposed changes:**

All NatSci BS students

**19. Will the proposed change(s) have a negative impact on students? If so, which ones?:**

No

Describe impact and explain what accommodations will be made:

**20. Reason(s) for change(s):**

Eliminating redundancy in verification that student has met degree requirements.

**DEPARTMENT LEVEL APPROVAL STATUS**

Approved: College of Natural Science

2/20/2019 11:23:03 AM by Shelby Gombosi for Richard Schwartz, Associate Dean

**COLLEGE LEVEL APPROVAL STATUS**

Approved: College of Natural Science

2/20/2019 11:23:10 AM by Shelby Gombosi for Gerard Mark Voit, Associate Dean

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## Graduation Requirements

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2. The requirements of the College of Natural Science for the **Bachelor of Science** and **Bachelor of Arts** degrees that are listed below:

- a. The requirements for either a **departmental** major or an **interdepartmental** major of 27 to 79 credits. For specific requirements, see the sections that follow.
- b. A minimum grade-point average of 2.00 in courses in the student's major; i.e., in all courses that are required for the major and that are not counted toward college and University requirements.

- c. ~~The following credit distribution requirements:~~ *0*

~~(1) A minimum of 30 credits in courses numbered 300 and above.~~

~~(2) A maximum of 67 credits in courses offered in a single curriculum division of the college; i.e., Biological Science or Mathematical Science or Physical Science.~~

- d. Only credits in courses graded on the numerical or Pass-No Grade system may be counted toward college and major requirements for Bachelor of Science and Bachelor of Arts degrees in the College of Natural Science. College of Natural Science students may not enroll in courses that are to be counted toward college and major requirements, including courses in other colleges, on a Credit-No Credit basis.

3. The requirements of the College of Natural Science for either the Bachelor of Science degree or the Bachelor of Arts degree that are listed below:

- a. Requirements for the **Bachelor of Science** degree:

- (1) One semester of calculus.
- (2) A second semester of calculus or one semester of statistics and probability.
- (3) Two semesters of chemistry including at least one laboratory experience.
- (4) Two semesters of physics.
- (5) One semester of biological science.

- b. Requirements for the **Bachelor of Arts** degree:

- (1) One semester of calculus.
- (2) A second semester of calculus or one semester of statistics and probability.
- (3) One semester each of biological science, chemistry, and physics including at least one laboratory experience.
- (4) Six credits in courses in the arts and humanities or the social, behavioral, and economic sciences beyond the credits that are counted toward the University's Integrative Studies requirement.

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