Code # Enter text…

**Bulletin / Banner Change Transmittal Form**

**[x ] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | David Gilmore | 4/14/2017 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Thomas Risch | 4/14/2017 |   **Department Chair:** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (If applicable)** |
| |  |  | | --- | --- | | David F. Gilmore | 5/4/2017 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | John M. Pratte | 5/4/2017 |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Vice Chancellor for Academic Affairs** |

**1.Contact Person** (Name, Email Address, Phone Number)

David Gilmore, [dgilmore@astate.edu](mailto:dgilmore@astate.edu), 972-3263

**2.Proposed Change**

Addition of MATH 2204 Calculus I as meeting the major mathematics requirement.

**3.Effective Date**

5/30/2017

**4.Justification –** *Please provide details as to why this change is necessary.*

Although MATH 2194 Survey of Calculus is recommended for our majors, many take MATH 2204 Calculus I. This is a suitable course, but the use of the course currently generates a lot of substitution forms. These changes to the Bulletin will allow our majors to get credit for either course.

**Bulletin Changes**

|  |
| --- |
| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

Major in Biological Sciences

**Bachelor of Science**

**Emphasis in Biology**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

|  |  |
| --- | --- |
| University Requirements: | |
| See University General Requirements for Baccalaureate degrees (p. 42) | |
| **First Year Making Connections Course:** | Sem. Hrs. |
| BIO 1013, Making Connections - Biology | 3 |
| **General Education Requirements:** | Sem. Hrs. |
| See General Education Curriculum for Baccalaureate degrees (p. 84)  Students with this major must take the following:  *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*  *CHEM 1013 AND 1011, General Chemistry I and Laboratory*  *BIO 2013 AND 2011, Biology of the Cell and Laboratory*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | 35 |
| **Language Requirement:** | Sem. Hrs. |
| *A student must complete the foreign language requirements before being considered a Biological Sciences Major. (Refer to Department of Biological Sciences Foreign Language Requirement).* | |
| **Major Requirements:** | Sem. Hrs. |
| BIO 1303 AND 1301, Biology of Animals and Laboratory | 4 |
| BIO 1503 AND 1501, Biology of Plants and Laboratory | 4 |
| BIO 3013 AND 3011, Genetics and Laboratory | 4 |
| BIO 3023, Principles of Ecology | 3 |
| BIO 4021, Biological Seminar | 1 |
| CHEM 1023 AND 1021, General Chemistry II and Laboratory | 4 |
| CHEM 3103 AND 3101, Organic Chemistry I and Laboratory | 4 |
| CHEM 3113 AND 3111, Organic Chemistry II and Laboratory | 4 |
| MATH 2194, Survey of Calculus OR MATH 2204 Calculus I | 4 |
| PHYS 2054, General Physics I | 4 |
| PHYS 2064, General Physics II | 4 |
| Sub-total | 40 |
| **Emphasis Area (Biology):** | Sem. Hrs. |
| BIO 3033, Evolution | 3 |
| BIO 3302 AND 3312, Comparative Anatomy and Laboratory | 4 |
| BIO 3303 AND 3301, General Entomology and Laboratory OR  BIO 3322 AND 3332, Invertebrate Zoology and Laboratory | 4 |
| BIO 3323 AND 3321, Animal Physiology and Laboratory OR  BIO 4513, Plant Physiology | 3-4 |
| BIO 4104, Microbiology | 4 |
| BIO 4133 AND BIO 4131, Cell Biology and Laboratory OR  CHEM 4243, Biochemistry | 3-4 |
| BIO 4332 AND 4342, Animal Histology and Laboratory OR  BIO 4343 AND 4341, Animal Embryology and Laboratory | 4 |
| BIO 4542 AND 4541, Mycology and Laboratory OR  BIO 4552 AND 4551, Medical Mycology and Laboratory | 3 |

Page 371

Identical change on pages 373, 374, 375, and 377, the different emphasis areas in B.S. Biology.