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 for inclusion in curriculum committee agenda.

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| David Gilmore | 4/14/2017 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Thomas Risch  | 4/14/2017 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| David F. Gilmore | 5/4/2017 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| John M. Pratte | 5/4/2017 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (If applicable)**   |

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**Vice Chancellor for Academic Affairs** |

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

David Gilmore, 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**

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| **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/.

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| 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 |

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