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| For Academic Affairs and Research Use Only | |
| Proposal Number | SM07 |
| CIP Code: |  |
| Degree Code: |  |

**New or Modified Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **[ ]New Course, [ ]Experimental Course (1-time offering), or [X]Modified Course (Check one box)** |

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

|  |  |
| --- | --- |
| Virginie Rolland 3/1/2022 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Stephen J. Mullin 3/1/2022 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| John Hershberger 3/16/2022  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Lynn Boyd 3/17/2022 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

Travis D. Marsico, tmarsico@astate.edu, 870-680-8191

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

2022-2023

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

|  |  |  |
| --- | --- | --- |
|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **BIO** | **BIO** |
| **Number\*** | **4813 and 4823** | **4833** |
| **Title**  (include a short title that’s 30 characters or fewer) | **Curation of Collections and Natural History Collections Research Design** | **Collections Curation and Research Design** |
| **Description\*\*** | **BIO 4813. Curation of Collections** Current, appropriate museum-quality specimen curation for a range of taxa including the collection and preservation of specimens of vascular plants, fungi, mussels, fish, reptiles and amphibians, and mammals.  **BIO 4823. Natural History Collections Research Design** Evaluation and development of research questions using current, peer-reviewed literature as a basis for discussion supported by natural history specimens and data. Research topics include taxonomy, biogeography, ecology, and global change biology. Activities demonstrate hypothesis testing in biodiversity science. | Museum-quality specimen curation including the collection and preservation of specimens and associated data. The evaluation and development of research questions and hypotheses in taxonomy, biogeography, ecology, global change biology, and biodiversity using natural history collections and data as research sources. Prerequisite, BIO 3023. Spring, odd. |

***\**** Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.

\*\*Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? Yes/No] Yes**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes / No** Are there any prerequisites? **Yes**
   1. If yes, which ones?

BIO 3023, Principles of Ecology

* 1. Why or why not?

Students must have a background in lower-level biology and ecology to understand the content in the published scientific readings.

1. **Yes / No** Is this course restricted to a specific major? **Yes**
   1. If yes, which major? Yes, Biology
2. **Proposed course frequency [Modification requested? Yes/No] No.**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Spring, odd.

1. **Proposed course type [Modification requested? Yes/No] No.**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

This course is a lecture, activity, and discussion course. If only one can be selected, then lecture only would be appropriate.

1. **Proposed grade type [Modification requested? Yes/No] No.**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard letter.

1. **Yes / No** Is this course dual-listed (undergraduate/graduate)? Yes. With BIO 5833.
2. **Yes / No** Is this course cross-listed? **No**.

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

1. **Yes / No** Is this course in support of a new program? **No**

a. If yes, what program?

1. **Yes / No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)? **No**.

a. If yes, which course?

**Course Details**

1. **Proposed outline** **[Modification requested? Yes/No] YES.**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

|  |  |
| --- | --- |
| **Week** | **Topic** |
| 1 | Introduction to collections and curation. What is a museum/collection? What is a specimen/object/lot? What do museums do? Importance (why do we need more collections?). Types of collections. Overview of semester projects. |
| 2 | Important collections, best practices. History and origin of important collections, which are the biggest ones today? Acquisition of specimens, preservation (e.g., preventative actions, pests); organization; documentation; cataloging; accessibility. |
| 3 | Taxonomy: organization, types, synonyms, identification |
| 4 | The herbarium: Types of specimens (algal, moss, gymnosperm, angiosperm, wood, spirit), specimen characteristics, storage, information obtained, flow of information (images, data) and elements (specimens) |
| 5 | Introduction to fieldwork: General practices (field notebook and field preparation), collecting |
| 6 | Specimen preparation: materials and techniques, labels. |
| 7 | Databasing: importance and building a database, imaging (review for mid-term) |
| 8 | Georeferencing: techniques and uses |
| 9 | Hypotheses and underutilized resources |
| 10 | SPRING BREAK |
| 11 | Describing new species and taxonomic revisions |
| 12 | Collections in population genetics |
| 13 | Collections in global change biology research |
| 14 | Collections in ecological research |
| 15 | Collections in biogeography |
| 16 | FINAL EXAM AND DISCUSSION |

1. **Proposed special features** **[Modification requested? Yes/No] No.**

(e.g. labs, exhibits, site visitations, etc.)

1. **Department staffing and classroom/lab resources**

Biological sciences retains the appropriate staff and active learning classroom to teach the modified course.

1. Will this require additional faculty, supplies, etc.?

No; the opposite. This curricular modification collapses two lecture courses into a single lecture course. See 16 below.

1. **Yes / No** Does this course require course fees? NO

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

This course modification is slated to take 6 student credit hours of coursework association with the curation of natural history collections and how natural history collections are used in scientific research and collapse the two courses into a single 3-credit course. Both content areas are justified in the Biological Sciences curriculum, but with a variety of upper-level elective offerings across sub-disciplines, it is time to compress the material covered from 6 student credit hours to 3. This compression is made straightforward by the ability to focus on curation within the Arkansas State University Arkansas Center for Biodiversity Collections for half a semester (instead of the whole semester) and discussing the same research design topics as the previous 3-credit research design course with fewer examples. Through this modification, we are able to maintain content and interest in this important facet of biodiversity science with a more streamlined department curricular offering.

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

Enter text...

c. Student population served.

Enter text...

d. Rationale for the level of the course (lower, upper, or graduate).

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **Yes / No** Do the proposed modifications result in a change to the assessment plan? NO.

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

|  |  |
| --- | --- |
| **Program-Level Outcome 1 (from question #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome. |
| Assessment  Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

|  |  |
| --- | --- |
| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(Repeat if needed for additional outcomes)*

**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. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*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.** |

**Page 248 Certificate in Museum Studies - Before**

**Select two Electives from the following:**

ANTH 3233, Native American Culture in the Mid South

ARTH 3013, Egyptian and Near Eastern Art and Architecture

ARTH 3023, Greek and Roman Art and Architecture

ARTH 3033, Late Antique and Eastern Mediterranean Art and Architecture

ARTH 3043, Asian Art and Architecture

ARTH 3053, Medieval and Renaissance Art and Architecture

ARTH 3063, Baroque and Rococo Art and Architecture

ARTH 3073, Nineteenth Century Art and Architecture

ARTH 3083, Twentieth Century Art and Architecture

ARTH 3093, Global Contemporary Art 1980 to Present

~~BIO 4813, Curation of Collections~~

~~BIO 4823, Natural History Collections Research Design~~

ENG 3613, Introduction to Folklore

ENG 3623, American Folklore

ENG 3633, Native American Verbal Art

ENG 3643, African-American Folklore

HIST 3013, Civilizations of Africa

HIST 3043, Asian History Since 1500

HIST 3083, History of Arkansas

HIST 3123, Latin America, The Colonial Period

HIST 3133, Latin America, The National Period

HIST 3173, Greeks and Romans

HIST 3183, Medieval Europe

HIST 3193, The Crusades

HIST 3223, Europe and its Worlds, 1450-1750

HIST 3273, Modern Europe, 1750 to Present

HIST 3303, The Modern History of the Middle East 1800 to the Present

HIST 3323, United States Environmental History

HIST 3333, The Practice of History

HIST 3393, Introduction to Digital Humanities

HIST 3483, The United States from 1917-1941

HIST 3493, The United States Since 1945

HIST 3503, U.S. Foreign Relations since 1776

HIST 3563, Constitutional History of the United States

HIST 3603, The American South

HIST 3623, The American West

HIST 3653, The American Indian

HIST 3673, African American History I

HIST 3683, African American History II

HIST 3693, United States Women’s History

HIST 3743, The Urban Revolution in America

HIST 3853, U.S. Civil Rights Movement

HIST 4513, Museum Collections Management

HIST 4573, Digital History Seminar

MKTG 3013, Marketing

MKTG 4073, Social Media Marketing

STCM 4213, Social Media in Strategic Communications

**Page 248 Certificate in Museum Studies - After**

**Select two Electives from the following:**

ANTH 3233, Native American Culture in the Mid South

ARTH 3013, Egyptian and Near Eastern Art and Architecture

ARTH 3023, Greek and Roman Art and Architecture

ARTH 3033, Late Antique and Eastern Mediterranean Art and Architecture

ARTH 3043, Asian Art and Architecture

ARTH 3053, Medieval and Renaissance Art and Architecture

ARTH 3063, Baroque and Rococo Art and Architecture

ARTH 3073, Nineteenth Century Art and Architecture

ARTH 3083, Twentieth Century Art and Architecture

ARTH 3093, Global Contemporary Art 1980 to Present

BIO 4833, Collections Curation and Research Design

ENG 3613, Introduction to Folklore

ENG 3623, American Folklore

ENG 3633, Native American Verbal Art

ENG 3643, African-American Folklore

HIST 3013, Civilizations of Africa

HIST 3043, Asian History Since 1500

HIST 3083, History of Arkansas

HIST 3123, Latin America, The Colonial Period

HIST 3133, Latin America, The National Period

HIST 3173, Greeks and Romans

HIST 3183, Medieval Europe

HIST 3193, The Crusades

HIST 3223, Europe and its Worlds, 1450-1750

HIST 3273, Modern Europe, 1750 to Present

HIST 3303, The Modern History of the Middle East 1800 to the Present

HIST 3323, United States Environmental History

HIST 3333, The Practice of History

HIST 3393, Introduction to Digital Humanities

HIST 3483, The United States from 1917-1941

HIST 3493, The United States Since 1945

HIST 3503, U.S. Foreign Relations since 1776

HIST 3563, Constitutional History of the United States

HIST 3603, The American South

HIST 3623, The American West

HIST 3653, The American Indian

HIST 3673, African American History I

HIST 3683, African American History II

HIST 3693, United States Women’s History

HIST 3743, The Urban Revolution in America

HIST 3853, U.S. Civil Rights Movement

HIST 4513, Museum Collections Management

HIST 4573, Digital History Seminar

MKTG 3013, Marketing

MKTG 4073, Social Media Marketing

STCM 4213, Social Media in Strategic Communications

**Page 422-423—Before**

**Major in Environmental Studies**

**Bachelor of Arts**

A complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/

|  |  |
| --- | --- |
| **University Requirements:** | |
| See University General Requirements for Baccalaureate degrees (p. 47) | |
| **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*  *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Laboratory* ***OR*** *PHSC 1203* ***AND*** *1201, Physical Science and Laboratory*  *BIO 1503* ***AND*** *1501, Biology of Plants 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 En­vironmental Studies Major. (Refer to Department of Biological Sciences Foreign Language Requirement).* | |
| **Major Requirements:** | **Sem. Hrs.** |
| BIOL 1063, People and the Environment | 3 |
| BIO 1303 **AND** 1301, Biology of Animals and Laboratory | 4 |
| BIO 3023, Principles of Ecology | 3 |
| BIO 3673, Human Dimensions of Natural Resources | 3 |
| BIO 4613, Conservation Biology | 3 |
| BIO 4643 AND 4641, Environmental Biology and Laboratory | 3 |
| BIO 4043, Biometry | 3 |
| BIO 4021, Biological Seminar | 1 |
| PSSC 2813, Soils | 3 |
| Choose any of the courses below among the five focus areas. Students can choose to stay within one focus area, or may take courses from any focus area depending on interest and career aspirations:  Biology Focus  BIO 3033, Evolution  BIO 3313 AND 3311, Economic Entomology and Laboratory  BIO 4333, Marine Biology  BIO 4373 AND 4371, Animal Ecology and Laboratory  BIO 4813, Curation of Collections  BIO 4823, Natural History Collections Research Design  Agriculture / Sustainability Focus  AGRI 4223, Agriculture and the Environment  AGRI 4433, Organic Agriculture Production  CE 3263, Introduction ot Environmental Engineering  GEOG 4613, Conservation of Natural Resources  HORT 3253, Urban Forestry  PSSC 2811, Soils Laboratory  PSSC 4813, Soil Fertility  RET 3113, Fundamentals and Applications of Renewable Energy  RET 4023, Advanced Bioenergy  RET 4113, Advanced Renewable Energy Systems  RET 4123, Energy Conservation and Efficiency  Geospatial Focus  AGST 3543, Fundamentals of GIS/GPS  AGST 4543, Understanding Geographic Information Systems  AGST 4773, Remote Sensing  GEOG 3603, World Regional Geography  GEOG 3723, Introduction to Physical Geography, Weather, and Climate  Economic / Policy / Social Focus  CRIM 2043, Community Relations in the Administration of Justice  POSC 3503, Principles of Public Administration  POSC 3513, Public Budgeting Process  POSC 4143, Public Opinion and Public Policy  POSC 4503, Public Policy, Politics and Power  POSC 4513, Disaster Response Operation Management  POSC 4523, Public Personnel Administration  POSC 4633, Environmental Law and Administration  Communication Focus  MDIA 4003, Communications Law and Ethics  COMS 3243, Principles of Persuasion  COMS 3253, Principles of Listening  COMS 4253, Intercultural Communication  COMS 4263, Organizational Communication  COMS 4773, Conflict Resolution  STCM 4023, Public Opinion, Propaganda and the Mass Media  STCM 4603, Crisis Communication  STCM 2143, Strategic Writing  STCM 3043, Principles of Strategic Communication  STCM 3143, Strategic Writing II  STCM 4073, Strategic Communication Law and Ethics  STCM 4213, Social Media in Strategic Communication  STCM 4503, Seminar in Non Profit Communication  STCM 4763, Strategic Communication Campaigns | 42 |
| Sub-total | 69 |
| Electives: | Sem. Hrs. |
| Electives | 13 |
| Total Required Hours: | 120 |

**Page 420-421—After**

**Deletion from BIO 4813 and BIO 4823 no longer applies because the program BA in Environmental Studies is being deleted.**

**Page 476—Before**

**BIO 4661. Wildlife Management Investigational Techniques Laboratory** Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4661. Spring.

**BIO 4663. Wildlife Management Investigational Techniques** Identification of wildlife problems, project design, interpretation and construction of wildlife maps, food habit and census techniques, wildlife populations and habitat analyses, predictive population dynamics, and introduction to modeling and wildlife decision making procedures. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring.

**BIO 4704. Plant Systematics** A study of the systematics, nomenclature, morphology, and identification terminology for vascular plants with an emphasis on dichotomous key-based identi­fication of flowering plants of Arkansas. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Spring.

**BIO 4714. Dendrology** A study of the systematics, nomenclature, morphology, phenol­ogy, geographic range, and natural history of woody plants with an emphasis on field recognition throughout the year. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Fall, even.

**~~BIO 4813. Curation of Collections~~** ~~Current, appropriate museum-quality specimen cura­tion for a range of taxa including the collection and preservation of specimens of vascular plants, fungi, mussels, fish, reptiles and amphibians, and mammals. Dual listed with BIO 5813. Prereq­uisites, BIO 1301, BIO 1303, BIO 1501 and BIO 1503; or instructor permission. Fall, odd.~~

**~~BIO 4823. Natural History Collections Research Design~~** ~~Evaluation and development of research questions using current, peer-reviewed literature as a basis for discussion supported by natural history specimens and data. Research topics include taxonomy, biogeography, ecol­ogy, and global change biology. Activities demonstrate hypothesis testing in biodiversity science. Prerequisite, BIO 4813 or instructor permission. Spring, even.~~

**Biological Science (BIOL)**

**BIOL 1001. Biological Science Laboratory** Two hours per week. It is recommended this course be taken concurrently with BIOL 1003. Special course fees may apply. Fall, Spring, Summer. (ACTS#: BIOL 1004, BIOL 1024)

**BIOL 1003. Biological Science** The major characteristics and processes of life emphasizing the human organism. Promotes understanding of diversity and unity among living organisms with focus on ecological interactions and responsibilities of people within their social and natural environment. Lecture three hours per week. Special course fees may apply. It is recommend­ed that this course be taken concurrently with BIOL 1001. Fall, Spring, Summer. (ACTS#: BIOL 1004)

**BIOL 1063. People and the Environment** Major environmental issues facing our society will be covered to equip students to become part of the solution to many environmental challenges confronting us this century. Lecture three hours per week. It is recommended this course be taken concurrently with BIOL 1001. Special course fees may apply. Fall, Spring.

**Business Technology (BTEC)**

**BTEC 429V. Special Problems in Business Technology** Individual problems in Business Technology arranged in consultation with the instructor, must be approved by the department chair. Special course fees may apply. Irregular.

**Business (BUSN)**

**BUSN 1003. First Year Experience Business** Required course for all first semester fresh­men. Course content is centered around the skills and knowledge needed to be a successful ASU student, including academic performance, problem solving, critical thinking, self manage­ment and group building skills, university policies and other relevant issues. Fall.

**Page 476—After**

**BIO 4661. Wildlife Management Investigational Techniques Laboratory** Three hours per week. Special course fees may apply. To be taken concurrently with BIO 4661. Spring.

**BIO 4663. Wildlife Management Investigational Techniques** Identification of wildlife problems, project design, interpretation and construction of wildlife maps, food habit and census techniques, wildlife populations and habitat analyses, predictive population dynamics, and introduction to modeling and wildlife decision making procedures. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 1301 and BIO 1303. Spring.

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**BIO 4714. Dendrology** A study of the systematics, nomenclature, morphology, phenol­ogy, geographic range, and natural history of woody plants with an emphasis on field recognition throughout the year. Special course fees may apply. Prerequisites, BIO 1501 and BIO 1503. Fall, even.

**BIO 4833. Collections Curation and Research Design** Museum-quality specimen curation including the collection and preservation of specimens and associated data. The evaluation and development of research questions and hypotheses in taxonomy, biogeography, ecology, global change biology, and biodiversity using natural history collections and data as research sources. Prerequisite, BIO 3023. Spring, odd.

**Biological Science (BIOL)**

**BIOL 1001. Biological Science Laboratory** Two hours per week. It is recommended this course be taken concurrently with BIOL 1003. Special course fees may apply. Fall, Spring, Summer. (ACTS#: BIOL 1004, BIOL 1024)

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