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

**New or Modified Course Proposal Form**

**[] Undergraduate Curriculum Council**

**[x] 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.

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| --- | --- |
| David F Gilmore 2/9/2021 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Stephen J. Mullin 2/9/2021 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| John Hershberger 2/24/2021  **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 2/25/2021 **College Dean** | Alan Utter 4/2/2021  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

Dr. Kyle Gustafson [kgustafson@astate.edu](file:///C:\Users\kgustafson\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\RLU5038R\kgustafson@astate.edu) 870-972-3174

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

**Spring 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.”*

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| --- | --- | --- |
|  | **Current (Course Modifications Only)** | **Proposed (Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **BIO** | **BIO** |
| **Number\*** | **5382**  **5392** | **5384** |
| **Title** | **Parasitology**  **Laboratory for Parasitology** | **Parasitology** |
| **Description\*\*** | **BIO 5382. Parasitology** The parasites of vertebrates and plants with emphasis on protozoan and helminth parasites of man and domestic animals. Lecture two hours per week. Prerequisites, BIO 1301, 1303.  **BIO 5392. Laboratory for Parasitology** Four hours per week. To be taken concurrently with BIO 5382. Special course fees may apply. | **BIO 5384. Parasitology** Evolution, life cycles, pathology, treatment and identification of biomedically important vertebrate parasites. Special course fees may apply. Lecture three hours and lab three hours per week. |

***\**** (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 as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? 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. **NO** Are there any prerequisites?
   1. If yes, which ones?

Enter text...

* 1. Why or why not?

**Graduate students would have the necessary qualifications to be successful in the course**

1. **NO** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? YES]**

(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]**

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.

**Lecture and lab**

1. **Proposed grade type [Modification requested? 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** Is this course dual-listed (undergraduate/graduate)?
2. **NO** Is this course cross-listed?

*(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.

Enter text...

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

Enter text...

1. **NO** Is this course in support of a new program?

a. If yes, what program?

Enter text...

1. **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)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? YES]**

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| --- | --- | --- |
| Week | Lecture | Lab |
| 1 | Introduction to Parasitology and Terminology | Microscopy |
| 2 | Parasite Systematics, Ecology, Evolution | Kinetoplasts |
| 3 | Protozoan evolution | Diplomonanida & Trichomonodida |
| 4 | Protozoan life cycles | Amoebas |
| 5 | Protozoan ecology | Apicomplexa I |
| 6 | Protozoan pathology | Apicomplexa II |
| 7 | Protozoan treatment | Practical |
| 8 | Platyhelminthes evolution | Aspidogaster & Digenea I |
| 9 | Platyhelminthes life cycles and ecology | Digenea II & Monogenea |
| 10 | Platyhelminthes pathology and treatment | Cestoda I |
| 11 | Platyhelminthes & Acanthocephala life cycles | Cestoda II & Acanthocephala |
| 12 | Nematoda evolution | Nematoda I |
| 13 | Nematoda pathology and treatment | Nematoda II |
| 14 | Nematoda & Arthropoda life cycles | Nematomorpha & Arthropoda |
| 15 | Arthropoda ecology, pathology, treatment | Practical |

Because this is a dual-listed course, extra work will be expected of graduate students. Graduate projects, papers, and/or presentations will be required as part of the extra workload.

1. **Proposed special features** **[Modification requested? NO]**

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

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

**Assistant professor Dr. Gustafson will teach as part of his teaching rotation**

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

**Microscopes**

1. **NO** Does this course require course fees?

*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)

**Parasites are widespread, extremely diverse, and infect every vertebrate species on the planet. Their effects on humans, domestic animals, and wildlife are important to understand for biomedical students (medical and veterinary) as well as wildlife students who will potentially manage parasitological diseases in wildlife populations. I have taught parasitology before and the 2-hour lecture and 4-hour lab does not align with my teaching style or course goals. I am modifying the course to become a combined lecture and lab 4-credit course with a single grade. This is important because the lecture and lab go hand-in-hand and students who only take the lecture or the lab would have a major gap in their knowledge. The lecture will be 3 hours a week and the lab will be 3 hours a week. This will allow for complementary lectures, primarily literature readings and discussions, and intense observation laboratories.**

**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. **NO** Do the proposed modifications result in a change to the assessment plan?

*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.*

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| --- | --- |
| **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?

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| --- | --- |
| **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**

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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. 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.** |

**Graduate Bulletin**

**BEFORE – GRADUATE BULLETIN – Page 393**

**BIO 5333. Marine Biology** Overview of the diverse discipline of marine biology. Emphasis on life history but will incorporate aspects of chemistry, microbiology, and ecology of marine systems. Also included: marine fisheries, conservation biology, aquaculture, pharmacology, resource management, and public policy.

**BIO 5341. Laboratory for Animal Embryology** Two hours per week. To be taken concurrently with BIO 5343.

**BIO 5342. Laboratory for Animal Histology** Four hours per week. To be taken concurrently with BIO 5332.

**BIO 5343. Animal Embryology** Study of reproduction and development in animals, including reproductive systems, gamete formation, fertilization, early cleavage, formation of germ layers, and development of the organ systems. Lecture three hours per week.

**BIO 5351. Laboratory for Mammalogy** Three hours per week. To be taken concurrently with BIO 5352. Special course fees may apply.

**BIO 5352. Mammalogy** Classification, distribution, structure, ecology, adaptations, and economic importance of mammals. Lecture two hours per week. Prerequisites, BIO 1301,1303.

**BIO 5361. Laboratory for Mammalian Neurobiology** Two hours per week. To be taken concurrently with BIO 5363. Special course fees may apply.

**BIO 5362. Applied Aquaculture** Field course in which principles are applied within several aquaculture business settings. Intended for the student interested in wildlife and fisheries biology. Prerequisites, BIO 4311 AND 4312.

**BIO 5363. Mammalian Neurobiology** A detailed study of the mammalian nervous system with particular emphasis on morphological aspects. Lecture three hours per week. Prerequisites, BIO 1301, 1303, 2201, 2203 or permission of professor.

**BIO 5371. Laboratory for Animal Ecology** Two hours per week. To be taken concurrently with BIO 5373. Special course fees may apply.

**BIO 5372. Applied Fisheries** Field course in which principles are applied within several fisheries management settings. Intended for the Wildlife Ecology and Management major. Special course fees may apply. Prerequisite, BIO 4311.

**BIO 5373. Animal Ecology** A study of the distribution, abundance, population dynamics, behavior, and interactions of animals. Lecture three hours per week. Prerequisites, BIO 3023.

**BIO 5382. Parasitology** The parasites of vertebrates and plants with emphasis on protozoan and helminth parasites of man and domestic animals. Lecture two hours per week. Prerequisites, BIO 1301, 1303.

**BIO 5383. Herpetology** Examination of the biology amphibians and reptiles, with emphasis on evolutionary history, behavior, physiology, morphology, and ecology. Three hours per week.

**BIO 5392. Laboratory for Parasitology** Four hours per week. To be taken concurrently with BIO 5382. Special course fees may apply.

**BIO 5401. Laboratory for Ichthyology** Two hours per week. To be taken concurrently with BIO 5402. Special course fees may apply.

**BIO 5402. Ichthyology** The taxonomy, distribution, natural history, and economic importance of fishes, with emphasis on Arkansas species. Lecture two hours per week. Prerequisites, BIO 1301, 1303.

**BIO 5403. Comparative Vertebrate Reproduction** This combined lecture/lab course surveys major events in the vertebrate reproductive cycles and patterns. Prerequisites BIO 3231 and 3233 or 3323, or instructor permission.

**BIO 5411. Laboratory for Herpetology** Two hours per week. To be taken concurrently with BIO 5412. Special course fees may apply

**AFTER – GRADUATE BULLETIN – Page 393**

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**BIO 5361. Laboratory for Mammalian Neurobiology** Two hours per week. To be taken concurrently with BIO 5363. Special course fees may apply.

**BIO 5362. Applied Aquaculture** Field course in which principles are applied within several aquaculture business settings. Intended for the student interested in wildlife and fisheries biology. Prerequisites, BIO 4311 AND 4312.

**BIO 5363. Mammalian Neurobiology** A detailed study of the mammalian nervous system with particular emphasis on morphological aspects. Lecture three hours per week. Prerequisites, BIO 1301, 1303, 2201, 2203 or permission of professor.

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