## B - Course Revision Form V. 7.2022 : Entry # 2938

**DEAN Decision**

Approved

**Today's Date**

09/13/2023

**EPC Decision**

Approved

**Today's Date**

11/30/2023

**GEC Decision**

Approved

**Today's Date**

12/12/2023

**APIRC Decision**

Approved

**Today's Date**

01/12/2024

## Begin Form

**Today's Date**

08/25/2023

**Your Name**

Briana Fiser

**Your Email:**

bfiser@highpoint.edu

**Are you a Department Chair?**

Yes

**By checking below, I certify that my department chair has seen and approved the course revisions that are in this proposal**

Yes

**Please select the appropriate school overseeing this proposal:**

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Natural Sciences

**Which semester is this course to be taught as proposed?**

Fall 2024

**Are you submitting multiple courses for revision from the same department?**

No, just one

**Please list all of the courses that you are submitting revisions for:**

| Course Prefix | Course Number | Course Title |
|---|---|---|
| PHY | 3500 | Biological Physics |

**What would you like to revise?**

- Learning Outcomes

## Gen Ed & Academic Program Information

**Is this a revision to meet new Gen Ed requirements?**

Yes

**Which area(s) of Gen Ed does your proposal seek for approval?**

- Integrative Course [ITG]

**Is this course part of an academic program?**

- This course does not currently fulfill academic program requirements

**Does this course, as revised, include any community engagement?**

No

**Is this course part of GoGlobal?**

No

**Does this course count towards a major or a minor?**

Yes

**Please list the course(s) and whether they are required or electives for the major/minor.**

| Course Prefix/Number | Name of Major and/or Minor? | Required or Elective? |
|---|---|---|
| PHY 3500 | B.A. PHY, B.S. CHM, PHY minor | elective |

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**Is this course cross listed?**

No

**Choose the department designator for your course from the list below.**

PHY

**Current course number**

3500

**Current course title**

Biological Physics

## Curriculum Review Information

**Please list all revised student learning outcomes, including Gen Ed outcomes, for this course**

The only revision to learning outcomes is the addition of the General Education learning outcomes associated with Integrative courses. The following will be added to the original course:

General Education LO, Communication #1
Speak to groups using sophisticated, context-appropriate, and interesting delivery techniques (posture, gesture, eye contact, and vocal expressiveness).

General Education LO, Inter- and Intrapersonal Skills #1
Engage team members in ways that facilitate their contributions to meetings by constructively building upon or synthesizing the contributions of others.

General Education LO, Inter- and Intrapersonal Skills #3
Address conflict directly and constructively, helping to manage or resolve it in a way that strengthens overall team cohesiveness and future effectiveness.

General Education LO, Integrative #1
Connect concepts, theories, and frameworks of fields of study to life experiences, drawn from a variety of contexts (e.g., family life, creative endeavors, civic participation, work experience).

General Education LO, Integrative #2
Adapt and apply skills, abilities, theories, or methodologies acquired in one situation or discipline to new situations or problems.

**Please list any revisions to units or content areas that will be required for all sections of this course**

There are no revisions to the general content areas.

**If you have Gen Ed learning outcomes, please address the kinds of assessments you may use for each area that you are proposing the course be designated (i.e., Arts, Humanities, Diversity)**

An additional project has been added to the course - the Inspiring Experience Project. This project requires students to work in teams on a scientific outreach and communication project to convey a biophysical concept to a general audience. The project's deliverable can come in many forms (i.e., creating a game, building a demo). Students will present their projects (at a minimum) to the class. Ideally, students will be able to present their projects as part of an outreach event, though this will be dependent on scheduling constraints in a given semester.

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Assessment of each General Education Learning outcome is described below:

General Education LO, Communication #1 will be assessed through the Inspiring Experience Project, the Deep Dive Project (students explore a biophysical technique or phenomenon), and through serving as a discussion leader for one or more class periods.

General Education LO, Inter- and Intrapersonal Skills #1 and #3 will be assessed through experimental or computational activities in class, in-class group problems (peer instruction and whiteboarding), homework, the Inspiring Experience Project, serving as discussion leader, and through team and self evaluations.

General Education LO, Integrative #1 and #2 will be assessed through in-class problem solving, homework, tests, experimental or computational activities, the Deep Dive Project, the Inspiring Experience Project, and the final exam.

**Please list any revisions to course policies that will be required for all sections of this course**

There are no course policy revisions.

**If you would like to specify any revisions to requirements for how contact hours must be met for all sections of this course, please indicate below (e.g., if any experiential learning activities will replace seat time)**

N/A

**If this course proposal affects any other departments, please describe the consultation and approval that you've received and from whom**

The plan is for Dr. Fiser and Dr. Kean (in the Department of Chemistry) to co-teach this course in Fall 2024. Thus, this proposal affects the Department of Chemistry. Dr. Fiser, Chair of Department of Physics, has consulted with Dr. Knippenberg, Chair of Department of Chemistry, and he has given his approval for Dr. Kean to teach the course in Fall 2024.

**Is there anything else the reviewing parties should know about this course revision proposal that hasn't already been asked/addressed?**

The course will be co-taught by Dr. Fiser, whose specialty is in the area of biophysics, and Dr. Kean, whose specialty is in the area of biochemistry. Due to faculty availability, we plan to offer this course every other year.

**Additional Files**

- F24-PHY3500-syllabus.pdf