Instructional Annual Program Review and Planning Update Form Fall 2024

## BACKGROUND:

**Program review is an integral part of the campus planning process. As programs and areas monitor their progress on the current comprehensive four-year program review, changes in need and scope can be expected. This Annual PR Update form is designed to outline and request modifications to the current program review that occur between comprehensive four-year review cycles, as needed.**

**Examples of a requested change include new information such as action plans, outcomes modifications, personnel changes, technology needs, and capital expenditures requirements. As programs and areas monitor their progress on the previous comprehensive four-year program review, the form provides the basis to suggest a change in plans and processes to improve student success and institutional effectiveness.**

## SUBMISSION:

**Program:**

Physics

**Principal Author(s):**

Peter Widmann

**Dean:**

Bridget Salzameda

**Submission Date:**

12/19/2024 8:08:52 AM

**Author Signature:**

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| Electronically signed by Peter Widmann on 12/18/2024 2:57:32 PM |

**Manager Signature:**

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| Electronically signed by Bridget Salzameda on 12/19/2024 8:08:52 AM |

# Part 1: Review of Data

## Use the data provided by the Office of Institutional Effectiveness (OIE)--[available in August 2024](https://fullcolledu-my.sharepoint.com/:f:/g/personal/dberumen_fullcoll_edu/Ejn54PAVVhJLqimOjiLWBBYBPkPdoZEFZxZtScvvyibo6A)--to review your program completion and success rates and compare them to the Institution Set Standards for course completion and success rates. Then, answer these questions:

1. **Where your program meets or exceeds the college-wide standard for completion and success, to what do you attribute your success?**

We meet or exceed standards in all areas except PHYS221, the introductory course for scientists and engineers. Recent changes in our program include greater use of embedded tutors (Hornet Tutors) and an expanded physics boot camp program, which is likely to increase student success in general.

1. **Where your program does not meet this standard, please examine the possible reasons and note any actions that should be taken, if appropriate.**

PHYS221 has been below the standard for several years in a row. Previously, this could be attributed to the awful instructional environment created by COVID, but it is not clear what the problem is now. It should be understood that this course traditionally has the greatest attrition rate and failure rate of all our courses, and completion and success rates near what we achieve may be due to the nature of the course and subject.

That said, in 2025 we will still review department wide our teaching methodologies for this course and try to determine strategies for improvement. We are already updating the lab manual and demonstrations, which should yield some improvement.

1. **Compare your data analysis in questions 1 and 2 to the review of data in your 2023 Annual Program Review update (available on the** [**Program Review and Planning Committee**](https://committees.fullcoll.edu/program-review/) **website). Are there significant changes? Do you notice any patterns from year to year?**

The major pattern that emerges is below standard performance in one course, Physics 221, as discussed in question 2. Otherwise 2024 is consistent with the observations made in 2023.

# Part 2: Additional Resource Request Reasoning and Support

**We have reviewed our most recent self-study and have not identified any significant changes that necessitate resource requests for the upcoming academic year.**

**We have reviewed our most recent self-study and have identified significant changes that necessitate additional resource requests.**

**For programs that have identified significant changes that necessitate additional resource requests, answer the following questions for each separate resource request:**

1. **Briefly describe your resource request.**

To expedite progress on our action plans, and offer needed general education classes, we require one additional full time faculty to replace a faculty member who recently left the department.

Due to the effects of AB 1705, we expect to see an upturn in underprepared students. Additional faculty are needed to address this by expanding boot camps, adding more mathematical background to the introductory courses, and other activities to be determined.

1. **Is this request related to an essential safety need?**

No

**Why must this resource request be processed now rather than during the Fall 2025 comprehensive self-study?**

The need is immediate and will not go away.

**How will this additional resource allocation specifically enhance your program’s services, activities, processes, etc. to continue or improve student learning and achievement?**

1. Increase ability to offer physics boot camps

2. Increase ability to add more general ed courses

3. Increase ability to offer dual enrollment courses

4. Increased participation in department planning for improvement

**Is the resource request personnel-related? If so, please provide evidence to justify the requested positions such as retirements, program growth or curricular demands, full-time/adjunct ratios, etc.**

We recently lost a full time faculty member and are unable to offer the necessary classes for general ed, and physics for life sciences.

**How will this additional resource allocation help you serve the college mission or strategic initiatives, and your program’s goals for improvement, as stated in your last self-study?**

1. Increase ability to offer physics boot camps

2. Increase ability to add more general ed courses

3. Increase ability to offer dual enrollment courses

4. Increased participation in department planning for improvement

**For each separate resource request, complete this chart with details of the request:**

|  |  |
| --- | --- |
| **Type of Resource** |  |
| Personnel | Faculty |
| Facilities |  |
| Supplies |  |
| Computer Hardware |  |
| Computer Software |  |
| Training |  |
| Other |  |
| **Total Requested Amount:** | 100,000 |

|  |
| --- |
| **Is the funding requested ongoing or one-time funding?**  Ongoing funds |
| **Is the funding requested for**[**enrollment and reengagement activities?**](https://ie.fullcoll.edu/wp-content/uploads/sites/27/2024/05/ER-2.0-Program-Review-Guide.pdf)  No |