

## UNIT REPORT

## Applied Pharmacoeconomics - 01.Reviewer's Report - Academic Data

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# Applied Pharmacoeconomics

## Applied Pharmacoeconomics Mission

### Mission:

The College of Pharmacy's graduate education mission is to develop leaders in the pharmaceutical sciences. Our strategic plan goal for graduate education is to provide outstanding research training in those areas core to our college. This certificate program enables the university to fulfill one of its fundamental purposes, teaching, on a far greater scale. The online format provides an opportunity to obtain a high-quality graduate certificate for students constrained by work and family commitments. Enrollment in the certificate program provides resources for faculty development, seeding of research and program growth and graduate student support. Students who have completed the certificate can apply concepts and skills learned through the program to improve scientific and business operations and outcomes within their organizations. This strengthens the state economy, thereby increasing access to jobs and opportunities for others throughout the state.

**Program Type and Level:** Certificate – Graduate

**Start:** 07/01/2022

**End:** 06/30/2023

**Program:** Applied Pharmacoeconomics

**Program CIP:** 51.2099

**Site Information:** Online

**If Other Site:** :

### Responsible Roles:

Laura Happe (lhappe@ufl.edu), Heather Steingraber (hgs@ufl.edu), Emely McKitrick (eelugard@ufl.edu), Oliver Grundmann (grundman@UFL.EDU), Jatinder Lamba (jatinderklamba@ufl.edu)

## PG 1 Satisfaction

**Goal:** To provide students a positive experience with the academic program.

**Program:** Applied Pharmacoeconomics

### Evaluation Method:

Students are asked to complete an Exit Survey upon completion of their certificate. The % of respondents who responded "recommend" or "strongly recommend" to the following question: "Would you recommend this program to friends or colleagues?" is used to evaluate this program goal.

### Results:

This is a new program goal as approved in our revised Assessment Plan. We launched our first Exit Survey at the conclusion of the 2022-23 academic year. Unfortunately, we only received 1 respondent, who did not answer this question. Next year, we are considering approaches to increase the response rate. For example, it is possible that responses were low because they were sent from a generic UF email address, and it may be more effective if sent by the Program Director.

Attached Files

## PG 2 Career

**Goal:** To assist students in developing the skills necessary for employment or opportunities for promotion within their field.

**Program:** Applied Pharmacoeconomics

### Evaluation Method:

**Evaluation Method 1:** Students are asked to complete an Exit Survey upon completion of their certificate, as well as an Alumni Survey in the year following. The % of respondents who responded "yes" to the following question: "Did you have a positive and material change in your career while you were enrolled in the program or after graduation?" is used to evaluate the program goal.

**Evaluation Method 2:** 80% successful completion (grade B or higher) of all courses taken toward a certificate within this reporting cycle. Content of curriculum evaluated yearly to ensure coverage of new concepts.

**Results:**

**Results 1:** This is a new program goal as approved in our revised Assessment Plan. We launched our first Exit Survey at the conclusion of the 2022-23 academic year. Unfortunately, we only received 1 response. The one respondent answered "yes" to this question. Next year, we are considering approaches to increase the response rate. For example, it is possible that responses were low because they were sent from a generic UF email address, and it may be more effective if sent by the Program Director.

See "**Exit Survey**" data uploaded under "**Results**" in the "**Satisfaction**" section.

Attached Files

**SLO 1 Pharmacoeconomics****Outcome:**

Apply pharmacoeconomic theories and methods to assess the cost-effectiveness of pharmaceutical interventions and critically evaluate the implications of pharmacoeconomic studies.

**SLO Area (select one)** Skills (Grad)

**Assessment Methods Checklist:** Project(s)  
Presentation(s)

**Assessment Method Narrative:**

**Assessment #1:** In the **PHA6283 Final Article Critique and Presentation**, students critically appraise two pharmacoeconomic studies and complete a presentation of their critique. The instructor evaluates the article critiques as well as the presentation using a rubric. Grades and student strengths and weaknesses are accessed by the program director via Canvas. A grade of B or higher on this assessment meets the outcome.

**Assessment #2: PHA6808 is the culminating course in this certificate program.** It builds on the skills gained in the prerequisite courses (PHA6795 and PHA6283). The course includes a structured project where students create and report on their own pharmacoeconomic model. The project is completed via a series of iterative assessments, with each one building on the previous one. The instructor provides feedback on each assessment. The grade on the final research report, as well as student strengths and weaknesses, are accessed by the program director via Canvas. A grade of B or higher on this assignment meets the outcome.

Attached Files

**SLO Not Assessed This Year:**

**Threshold of Acceptability:** 85

**How many students did you assess for this outcome?:** 47

**How many students met the outcome?:** 47

**What percentage of students met the outcome?:** 100

**Does this meet your threshold of acceptability?:** Yes

**Results:**

**The first assessment is the article critique and final presentation in PHA6283 Commercial Applications of Pharmacoeconomic Principles.** The average of the critique and presentation scores was 98.4% and the range was 90.7%–100%. The grades are expected to be high given that students had completed similar assignments and received feedback over the course of the term. This assessment is appropriate for measuring this SLO because students evaluate and compare two pharmacoeconomic studies. Students generally demonstrated a strong ability to compare and contrast economic research articles in the case studies. Some were able to add clinically-based information to the economic evaluations (this was not required as some of the students do not have a clinical background/degree). Some students had room for improvement in the draft slides for the final presentation, revealing that additional instructor guidance was warranted in this area. Instructor sent corrections for any missing or incorrect information to the students before their presentation, so as not to present incomplete/incorrect information to the rest of the class. Many students had experience presenting via their job duties, but some students had not had this experience.

**The second assessment is the final project in PHA6806 Pharmacoeconomic Modeling.** This course is effective for assessing this SLO because students develop a model of two alternative treatments to determine which is more cost effective. The model building incorporates pharmacoeconomic theories and methods. The average final project grade was a 98.7% and the range was 94%–100%. Students were generally proactive and eager to learn throughout the project. Most had a strong background in

pharmacy, enabling them to quickly understand drug utilization and therapies in different stages of a condition/disease needed for the project. On the other hand, some students had difficulty picking up the project quickly in the first couple of weeks, perhaps because of a weaker background in pharmacy or statistics. This reveals that this course attracts students with diverse backgrounds and knowledge.

No disaggregated results are provided because these courses are only delivered online.

Attached Files

### Applied Pharm Cert Programmatic Use of Results

**Improvement Types Checklist:** Modified the program curriculum or curriculum sequence.

**Use of Results for Improvement Narrative - Required:**

We made substantial changes to our assessment plan in the 2021-2022 review cycle in response to feedback from the Institutional Assessment Review. This is our first full report of the revised program goals and SLOs. As described above, we had difficulty collecting data on the program goals and are going to modify our approach next year. While we are not changing the program goals this year but will reevaluate the ability to collect the data in the next cycle.

We were generally pleased with the efficacy of the assessments for the SLOs. Last year we identified that neither instructor for the two assessments was using a rubric. We are pleased that they are both using a rubric this year – we feel this improves the consistency and quality of grading.

I additionally note that we have submitted a curriculum change request to add a course (PHA6264 Pharmaceutical Health Technology Assessment) to the required course options for this certificate. This is not a new course; it is just a new option for students to take to meet the certificate requirements. This is being offered in place of a different course that we have discontinued – Pharmaceutical Health Economics. The new course content is more relevant to work being done in the field of pharmacoconomics today.

**Program Results Not Reported This Year:**

**Program Results Reporting Complete:** true

### Applied Pharmacoeconomics

**Providing Department:** Applied Pharmacoeconomics

**Assessment Cycle:**

Analysis and Interpretation: September, annually

Improvement Actions: October, annually

Dissemination: November, annually

Year

22-23                      23-24                      24-25                      26-27                      27-28                      28-29

SLOs

Skill                      X                      X                      X                      X                      X                      X

**SLO Assessment Rubric:**

Find the **course assignments, rubrics, and final course grades** in the **Pharmacoeconomics** section.

**Assessment Oversight:**

| Name                        | Department          | Email  | Phone        |
|-----------------------------|---------------------|--|--------------|
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|                  |                     |  |              |
|------------------|---------------------|--|--------------|
| Oliver Grundmann | College of Pharmacy | <a href="mailto:grundman@ufl.edu">grundman@ufl.edu</a> | 352-246-4994 |
|------------------|---------------------|--|--------------|

**Methods and Procedures - Undergraduate and All Certificate Programs:**

Each of the graduate certificate programs consists of 15 credits of graduate education delivered online through four or five courses. Each course is divided into modules and each module has an assignment that is graded.

**Curriculum Map - Undergraduate Degree Programs:**

n/a

**Research :**

This is not a research program.

**SLO Measures - Graduate and Professional Programs:**

Students are assessed by means of course embedded assignments and final projects.

**Assessment Timeline - Graduate and Professional Programs:**

| SLO                 | Assessment 1                                 | Assessment 2                   |
|---------------------|--|--------------------------------|
| <b>SLO1: Skills</b> | PHA6283, final presentation, spring and fall | PHA6806, final project, summer |

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