

# **Syllabus: PHM 484: Pharmacoeconomics Capstone**

Course Title: PHM 484: Pharmacoeconomics Capstone

Semester: Fall 2024

Instructor: Dr. James Smith

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Office Hours: Fridays 2:00-4:30 PM OR by appointment

Class Time & Place: Tuesday or Thursday 3:00-4:15 PM in SANCA 455

## **Course Description:**

This capstone course focuses on the economic evaluation of pharmaceutical interventions or healthcare policies. Students will conduct economic modeling and analysis, culminating in a presentation of their findings at the Innovation Showcase. The course includes the development of a project proposal, data collection, economic modeling, and a final report.

## **Course Objectives:**

Evaluate the cost-effectiveness and budget impact of pharmaceutical interventions or healthcare policies.

Develop economic models to analyze costs, health outcomes, and patient preferences.

Conduct scenario analyses to test the robustness of the economic models.

Effectively present the project at the Innovation Showcase.

## **Learning Outcomes:**

Gain expertise in pharmacoeconomics and economic evaluation.

Develop practical skills in economic modeling and analysis.

Improve communication skills through written reports and presentations.

Enhance the ability to manage pharmacoeconomics projects from conception to completion.

## **Group Project and Required Subtasks:**

The group project for this course will involve the economic evaluation of a pharmaceutical intervention or healthcare policy. The project will be broken down into the following subtasks:

1. **\*\*Project Proposal (Week 3):\*\***

- Create a proposal detailing the pharmaceutical intervention or policy, the research objectives, and the anticipated outcomes. Include a timeline and assign roles to team members.

2. **\*\*Literature Review and Data Collection (Weeks 4-6):\*\***

- Conduct a thorough literature review to identify existing economic evaluations and gaps. Collect data on costs, health outcomes, and patient preferences.

3. **\*\*Economic Modeling and Analysis (Weeks 7-10):\*\***

- Develop economic models to evaluate the cost-effectiveness and budget impact of the intervention or policy. Analyze the data to identify trends and make recommendations.

4. **\*\*Scenario Analysis and Optimization (Weeks 11-12):\*\***

- Conduct scenario analyses to test the robustness of the economic models. Optimize the intervention or policy based on the findings.

5. **\*\*Final Report and Presentation (Weeks 13-15):\*\***

- Document the entire economic evaluation process, including challenges, solutions, and outcomes in a final report.
- Prepare a presentation and poster for the Innovation Showcase that highlights the key aspects of the project.

Groups are expected to collaborate closely, meeting regularly to discuss progress and resolve any

issues. Instructor check-ins will be scheduled to provide guidance and feedback.

**Evaluation:**

Class meetings (5): 20 points

Individual meetings (3): 12 points

Project Proposal: 10 points

Literature Review and Data Collection: 15 points

Economic Modeling and Analysis: 18 points

Scenario Analysis and Optimization: 10 points

Final Report: 10 points

Presentation: 5 points

Poster: 10 points

Total: 100 points

**Course Policies:**

**Attendance and Participation:** Regular attendance and active participation are crucial for success in this course. Students are expected to attend all scheduled class meetings and individual sessions. If a student is unable to attend a class, they should inform the instructor in advance and arrange to complete any missed work.

**Academic Integrity:** All students must adhere to ASU's academic integrity policy. Any form of academic dishonesty, including plagiarism, will be reported and may result in severe penalties, including a failing grade for the course.

**Accommodations:** Students with disabilities or special needs should contact the ASU Disability Resource Center to arrange appropriate accommodations and notify the instructor as soon as possible.

**Important Dates:**

Class Week 1: Introductions & Project Brainstorming (Aug 26)

Individual Meeting #1: Discuss Ideas and Readings (Sep 4)

Class Week 2: Proposal Presentation & Group Feedback (Sep 18)

Individual Meeting #2: Proposal Feedback & Methods Discussion (Oct 2)

Class Week 3: Revised Proposal Presentation & CERTT Tour (Oct 23)

Individual Meeting #3: Data Analysis & Progress Review (Nov 13)

Class Week 4: Professional Development & Project Discussion (Nov 27)

Innovation Showcase: Final Presentations & Poster Display (Dec 6)