

RSPT 305: RESPIRATORY CARE CAPSTONE RESEARCH PROJECT

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2024
Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- The student will be able to apply the program's core curriculum to identify, plan, and execute a case study or project in respiratory care.
- The student will be able to utilize the "SMART" (specific, measurable, attainable, and relevant goals with an appropriate time frame) approach to accomplish deliverables related to the chosen project.

Description

Respiratory care capstone course with a focus on an area related to case management, clinical specialty, pulmonary diagnostics, interventional pulmonology, and/or research. Students work with faculty to choose, develop, and complete a project in the chosen area of interest. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

- Utilize developmental methodology in the creation of an educational, research, or novel project in the field of respiratory care
- Utilize multiple types of resources, including databases, to identify historical, seminal, and most current evidence-based literature
- Critically think about issues related to the field of respiratory care and identify problems, new concepts, or needs
- Demonstrate project management, planning, and presentation skills
- Demonstrate the ability to work as a member of a team

Course Content

- Developmental methodology
 - Planning
 - Analysis
 - Design
 - Building
 - Testing
 - Implementation

- Maintenance
 - Reflection
- Identify an area of interest from the program content
 - Leadership and management
 - Clinical specialty and chronic disease management
 - Advanced pulmonary diagnostics
 - Interventional pulmonology
 - Research and investigate current practices or new concepts
 - Complete a literature search
 - Complete a literature analysis
 - Identify a project or new concept
 - Project idea
 - Analysis of problem
 - Intended outcome and goals
 - Target audience
 - Scope
 - Expectations
 - Potential biases
 - Limitations
 - Preliminary report
 - Project plan and schedule
 - Structure
 - Selection of title
 - Abstract
 - Introduction
 - Literature review
 - Research methodology
 - Results or application
 - Conclusion
 - Limitations
 - Future scope
 - Timeline for deliverables
 - Identify at least three committee members
 - Clinical expert
 - Faculty advisor
 - Peer
 - Identify a faculty or clinical expert to serve as a mentor
 - Project implementation
 - Formal presentation
 - Evidence-based research paper
 - Abstract poster

Lab Content

Not applicable.

Special Facilities and/or Equipment

This course is taught fully online. Students need access to a computer with internet.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Capstone project proposal
Preliminary report

Literature review
Participation in discussion forums
Final research paper
Individual projects

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lecture
Activities
Directed study
Field experience
Individualized instruction

Representative Text(s) and Other Materials

No textbook. All course materials will be provided by instructor or included in the Respiratory Care journal.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

Articulation of capstone project proposal, preliminary paper, literature search, literature review, final research paper, formal presentation, and abstract poster.

Discipline(s)

Respiratory Technologies