

R T 61A: RADIOLOGY RESEARCH PROJECT I

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2023
Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	R T 53D.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Complete a research project utilizing scholarly peer-reviewed research and present their findings in a scientific poster.
- Effectively collaborate with diverse peer groups to conduct research, analyze data, and present findings, demonstrating improved teamwork and research skills.

Description

Collaborative research project on a specialized area of radiography or other imaging modality. Submission of scientific poster display board at ACERT conference is required. Selected research topics to be approved by the instructor. This course is part 1 of 2 of the research project for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

1. Develop research and literary skills by performing an in-depth research project
2. Collect and synthesize research data
3. Collaborate in the composition and preparation of the project
4. Design and construct a scientific display board using research presentation material
5. Develop an APA formatted reference list
6. Submit project for display and evaluation at ACERT conference
7. Complete a group and self-evaluation

Course Content

1. Selection of a topic on a specialized area of radiography or other imaging modality
 - a. Group selection
 - i. Group and project contract
 - b. Topic discussion
2. Review project guidelines as outlined by checklist

- a. Research methods
 - i. Internet
 - ii. Library
 - iii. Books/journals
 - iv. Other sources
 - b. Collection and management of data from all group members
 - c. Data entry
3. Project composition
 - a. Structure
 - b. Responsibilities of group members
 4. Scientific display board
 - a. Research materials and resource inventory
 - b. Digital display board construction
 5. Reference list
 - a. Properly formatted per APA guidelines
 - b. Currency of sources
 - c. Multiple, reliable sources
 6. Project submission and presentation
 - a. Conference application
 - b. Submission of project in digital form
 7. Evaluation of the collaborative process
 - a. Submit a self-evaluation
 - b. Submit an evaluation of other group members and collaborative process

Lab Content

Not applicable.

Special Facilities and/or Equipment

Classroom with multimedia equipment with internet access.

Method(s) of Evaluation

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

Evaluation of research project using a project grade checklist

Method(s) of Instruction

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

Lecture
Discussion
Demonstration

Representative Text(s) and Other Materials

Instructor created materials.

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

1. Perform independent literary research
2. Digital display board assembly

3. Application for submission of project to conference
4. Prepare a group contract to guide the collaboration process in order to develop essential communication skills while working in a team oriented setting
5. Complete a written self and group evaluation to assess and reflect on the collaborative process

Discipline(s)

Radiological Technology