

Doctor of Philosophy in Radiochemistry

Radiochemistry encompasses chemical and nuclear properties of radioelements and isotopes. The UNLV Radiochemistry Ph.D. Program, established by the departments of Health Physics and Chemistry, is a student-driven research intensive program stressing fundamental aspects of radiochemistry science. The curriculum and research provides a comprehensive and interdisciplinary examination of radiochemistry topics and experiences. Student opportunities in research and education are expanded through interactions with national and international collaborators. Program graduates have the necessary skill set to secure employment and participate in radiochemistry research and related activities.

Course Requirements

A Ph.D. degree is awarded to a candidate who has demonstrated breadth of knowledge in Radiochemistry in general and has displayed depth of knowledge in the area of specialty as well as the ability to make original contributions to the body of knowledge in the field.

Requirements for the Ph.D. in Radiochemistry include the completion of 60 semester hours in required and elective graduate courses and the successful completion and defense of a doctoral dissertation. These requirements will be established in consultation with the student's academic advisor in accordance with Radiochemistry Ph.D. program and Graduate College policy, and shall include successful completion of the following:

1. Radiochemistry Core Courses (12 credits)

RDCHE 701 – Nuclear Chemistry

RDCH 702 – Radiochemistry

HPS 602 – Radiation Detection

HPS 603 – Radiation Physics and Instrumentation Laboratory

2. Electives – to be approved by student's advisor (30-36 credits)

3. CHEM 799 – Dissertation (12-18 credits, depending on elective credits)