Simon Fraser University
Introduction to Radiochemistry (NUSC 341)
Fall Semester 2014

Lecturer: Luca Doria, PhD

Course Description

This course will give an introduction to Radiochemistry starting from the principles of nuclear science. After a brief historical account, the main properties of the nucleus are described together with the theory of radioactive decays. Other preliminary topics include: interaction of radiation with matter, radiation detection techniques, particle accelerators, radioprotection. In the final part of the course, applications of nuclear science and radiochemistry techniques will be discussed. Other specific topics might be discussed according to the students' interests.

Room: AQ-5007
Time: Tue 10:30-12:30 , Thu 10:30-11:30 (Lecture)
Thu 11:30-12:30 (Tutorial)

Grading: 40% Final Exam, 20% midterm1, 20% midterm2, 20% project/assignment

Recommended Text: Radiochemistry and Nuclear Chemistry
(Choppin,Liljenzin,Rydberg), http://jol.liljenzin.se/BOOK.HTM.

Other Material: Notes, Slides

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