

NUSC 341, Introduction to Radiochemistry (Tentative Schedule)

		Lecture Type	Topic (Proposed schedule subject to changes)
	September		
	Tue 2	First Lecture	Introduction and historical overview
	Thu 4	Lecture/Tutorial	Notation, Useful Formulas. The liquid drop model.
	Tue 9	Lecture	Microscopic Models (Shell Model)
	Thu 11	Lecture/Tutorial	The Nuclear Force / Introduction to QM
	Tue 16	Lecture	Introduction to QM / Deuterium
	Thu 18	Lecture/Tutorial	Radioactive Decays/Exercises
	Tue 23	Lecture	Kinetics of Radioactive Decays
	Thu 25	Lecture/Tutorial	Nuclear Reactions
	Tue 30	Lecture	Nuclear Reactions
	October		
	Thu 2	FIRST MID-TERM	Av. Time: 1h
	Tue 7	Lecture	Interaction of Radiation with Matter
	Thu 9	Lecture/Tutorial	Rad-Matter / Radiation Detectors
	Tue 14	Lecture	Radiation Detectors
	Thu 16	Lecture/Tutorial	Nuclear Astrophysics: Dr. Barry Davids (SFU/TRIUMF)
	Tue 21	Lecture	Particle Accelerators / Radiation Protection
	Thu 23	Lecture/Tutorial	Hadrontherapy: Dr. Conny Hoehr (TRIUMF)
	Tue 28	Lecture	Application: Radioactive Dating Methods
	Thu 30		Radiochemistry Instrumentation/ Methods
	November		
	Tue 4	SECOND MID-TERM	Av. Time: 1h
	Thu 6	Lecture/Tutorial	Radiochemistry Instrumentation/ Methods
	Tue 11	Remembrance Day	NO CLASS
	Thu 13		Presentations/Projects
	Tue 18		Presentations/Projects
	Thu 20		Presentations/Projects
	Tue 25		Presentations/Projects
	Thu 27	Final Lecture	Summary
	TBA	FINAL EXAM	Av. Time: 3h