

**UN0805 – Radiation Health Risks and Benefits
(Introduction to Operational Health Physics)
2008 Fall Course Outline – FINAL**

Week	Date	Topics	Module
1	Nov 1 09:00 – 17:00	Course Introduction	Dose Concepts, Quantities and Units Module 1
		Review of the Harmful Effects of Ionizing Radiation	
		ICRP Framework for Radiation Protection	
		Dose Quantities and Units	
		Dose from Internal Exposures and Metabolic Models	
	Nov 2 09:00 – 17:00	Metabolic Models (Continued)	
		Annual Limits on Intake and Derived Air Concentrations	
		Internal Dosimetry Programs	
		Surface Contamination Limits	
		Dose from External Exposures	
2	Nov 29 09:00 – 17:00	Elements of a Radiation Safety Program	Operational Radiation Safety Module 2
		Radiation Safety Considerations at Nuclear Reactors	
		Derived Emission Limits and Doses from Accidental Releases	
		Effluent and Environmental Monitoring	
	Nov 30 09:00 – 17:00	Assignment 1 Review	
		Radiation Safety in X and Gamma Ray Facilities	
		Radiation Safety at Accelerators	
3	Dec 13 09:00 – 17:00	Assignment 2 Review	
		Worked Problems and Solutions - Review	
3	Dec 14	(AM Exam:09:00 – 12:00)	Exam

Marking Scheme:

Assignment 1

Distribute by Nov 2

Due Nov 30 (Start of Class)

25%

Assignment 2

Distribute by Nov 30

Due Dec 13 (Start of Class)

25%

Final Exam

December 14

50%

On-Line tutorial sessions to be scheduled:

(2- 3 Hours as Required – using Elluminate Live)

Week of Nov 3 – 9

Week of Nov 10 – 16

Week of Nov 17 (Nov 17, 18 or 19)

Week of Dec 1

Week of Dec 8

SUBJECT TO CHANGE

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