

## **Radiation Physics, Regulation, and Management at Accelerators**

**University of Texas Austin**

### **Planned Class Schedule - January 25-29, 2016**

#### **Monday, January 25, 2016**

0900-0915	Introduction
0915-1045	Chapters 1 and 2
1045-1115	Examples from Chapters 1 and 2
1115-1200	Chapter 3, Part I
1400-1430	Examples from Chapter 3, Part I
1430-1615	Chapter 3, Part II
1615-1700	Examples from Chapter 3, Part II

#### **Tuesday, January 26, 2016**

0900-0945	Discussion of Assigned Chapter 1 & 2 Problems
0945-1115	Chapter 4, Part I
1115-1200	Examples from Chapter 4, Part I
1400-1500	Chapter 4, Part II
1500-1545	Examples from Chapter 4, Part II
1545-1700	Accelerator Radiation Protection Program Elements Part I

#### **Wednesday, January 27, 2016**

0900-0945	Discussion of Assigned Chapter 3 Problems
0945-1100	Chapters 5 and 6
1100-1200	Discussion of Assigned Chapter 4 Problems
1400-1430	Examples from Chapter 5
1430-1600	Chapter 7
1600-1700	Accelerator Radiation Protection Program Elements Part II

#### **Thursday, January 28, 2016**

0900-0945	Discussion of Assigned Chapter 5 Problems
0945-1015	Examples from Chapter 7
1015-1200	Chapter 8
1400-1430	Examples from Chapter 8
1430-1600	Chapter 9
1600-1700	Examples from Chapter 9

#### **Friday, January 29, 2016**

0900-1015	Discussion of Assigned Chapter 7, 8, and 9 Problems
1030-1130	Written Exam
1130-noon	Wrap-up and Adjournment

#### **Chapter Titles from Fermilab TM-1834 Referenced Above:**

1. Basic Radiation Physics Concepts and Units of Measurement
2. General Considerations of Radiation Fields at Accelerators
3. Prompt Radiation Fields Due to Electrons
4. Prompt Radiation Fields Due to Protons and Ions
5. Low Energy Prompt Neutron Radiation Phenomena
6. Shielding Materials and Neutron Energy Spectra
7. Induced Radioactivity In Accelerator Components
8. Induced Radioactivity in Environmental Media
9. Radiation Protection Instrumentation at Accelerators