

HARVARD MEDICAL SCHOOL JOINT PROGRAM IN NUCLEAR MEDICINE

COURSE OUTLINE 2008/2009

Course Title: Health Physics & Dosimetry

Course Instructor(s) David E. Drum, M.D, Ph.D.
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BWH Page #11161

Objective(s): This course aims to equip trainees with a firm introduction to the theoretical and practical aspects of medical radiation safety, health physics practice, and dosimetric computations

Criteria for Successful Completion of This Course

- A) Expectations: attend lectures and labs; read handouts; write out solutions to problems; be on time.
- B) Criteria for success: be on time; attend 80% of classes; do homework; turn in exam with 60% correct or well done answers.
- C) Failure of mastery: send written notice early in course; retake course or an alternate next year

Textbook: Handouts will be provided

Lecture Location(s): WRVA = Conference Room, Nuclear Medicine
BWH = Hollenberg Conference Room, Thorn-3

Additional Notes:

Bring calculators for natural logs & exponentials

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Course Schedule

Time: 8:00 – 9:00 AM

Day	Date	Location	Topic
Wed	4/22	BWH	Statutes and Regulatory Guides: 10 CFR 20
Fri	4/23	BWH	External Protection & Shielding
Mon	4/27	BWH	Medical Uses: 10 CFR 35
Wed	4/29	BWH	Shielding Problems
Fri	5/1	WRVA 8:30 AM	Pregnancy
Mon	5/4	BWH 8:30AM	Survey Meters; Calibration
Wed	5/6	BWH	Radiation Safety Administration; Managing labs
Fri	5/8	BWH	Doses around patients; Release Criteria
May 11-25, 2009: Cross-Sectional Imaging and Clinical Nuclear Medicine Courses			
Mon	5/18	BIDMC	Radon
Wed	5/20	BWH	Accidents, events, incidents
Fri	5/22	BWH	Nuclear Terrorism
Mon	5/25		No Lecture: Memorial Day Holiday
Wed	5/27	BWH	Particles; microdosimetry
Fri	5/29	BWH	MIRD I Radar
Mon	6/1	BWH	MIRD II
Wed	6/3	BWH	Biological Effects
Fri	6/5	BWH	Human Subjects, IRB
Mon	6/8	BWH	PET/CT
Wed	6/10	BWH	GM meter calibration; Radioactive waste
Fri	6/12	BWH	Cases. Open Book Exam due June 30
Mon	6/15	BWH	Fluoroscopy
Tue	6/23	BWH (Abrams)	Terrorism