# Advanced Health Physics HPS 416 & 616

#### UNIVERSITY OF NEVADA LAS VEGAS Department of Health Physics and Diagnostic Sciences Spring 2022

Γime:
Class Location:
Instructor:
Office Location:
Office Hours:
Phone:
Email:

*Note:* The instructor reserves the right to change the syllabus as it relates to how the course is administered.

## **Course Description**

Problem-solving for radiation professionals focusing on problems pertaining to radiation safety in the environment, industry, medical facilities, and nuclear reactors. Serves as the capstone experience for the Health Physics majors. Instruction will include broad-breadth lectures and problem solving. Students will also perform radiation protection planning for facilities and projects.

## **Course Prerequisite(s):**

**HPS 300** 

## **Course Objectives**

Solutions to problems pertaining to radiation safety in the environment, industry, medical facilities, and nuclear reactors. Topics include shielding, accelerators, radon, non-ionizing radiation, and radiation dose-effect.

## **Student Learning Outcomes**

Students will be able to:

Explain radiation protection requirements in science and industry.

1 HPS 416 & 616 Syllabus

Since the COVID-19 pandemic forced some instruction to be delivered remotely starting in Spring 2020, numerous students have asked instructors to record their synchronous classes, so that they can access them at their convenience. Instructors who agree to record their classes (audio only, or video and audio) should inform students in advance. Recorded lectures may not be broadly released to anyone, but made available exclusively to those students enrolled in the class during the particular academic term. Recorded lectures must be stored securely, and are Records Retention Policy, meaning that the

recordings can only be deleted 120 days after the end of class (i.e., after grades are posted). Once this requirement is met, the recordings should be deleted. Class recordings are protected from disclosure, as they are deemed part of an educational record under the Family Educational Rights and Privacy Act (FERPA).

#### Copyright

The University requires all members of the University Community to familiarize themselves with, and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The University will neither protect nor defend you, nor assume any responsibility for student or employee violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional copyright policy information is available at https://www.unlv.edu/provost/copyright.

### **Disability**

UNLV students enrolled in online or hybrid courses are expected to read and adhere to the <u>Student Academic Misconduct Policy</u>, https://www.unlv.edu/studentconduct/misconduct/policy, which

Intentionally sharing ACE login credentials with another person may be considered an attempt to use a substitute, and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy.

UNLV students enrolled in online courses are also expected to read and adhere to the <u>Acceptable Use of Computing and Information Technology Resources Policy</u>,

https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy, which prohibits sharing university accounts with other persons without authorization.

To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus-Canvas or another UNLV-managed platform that requires ACE login credentials for access.

#### **Incomplete Grades**

fourths of course work for that semester/session, but cannot complete the last part of the course

believes that the student can finish the course without repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. Graduate

academic success coaching, and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, please visit the <u>ASC website</u>, https://www.unlv.edu/asc, or call 702-895-3177. The ASC is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A, Room 254. Drop-in tutoring is located on the second floor of the Lied Library, and on the second floor of the College of Engineering building (TBE A 207).

#### **UNLV Writing Center**

One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, https://writingcenter.unlv.edu/, located in the Central Desert Complex, Building 3, Room 301 (CDC 3 301). Walk-in consultations are sometimes available, but students with appointments receive priority assistance. Students may make appointments in person or by calling the Center, telephone 702-895-3908. Students are requested to bring to their appointments their Rebel ID Card, a copy of the instructions for their assignment, and two copies of any writing they have completed on their assignment.

#### **Diversity Statement**

As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students, and is committed to aspiring to maintain a Campus environment that values that diversity. Accordingly, the University supports understanding and appreciation of all members of its community, regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation. Please see <a href="University Statements and Compliance">University Statements and Compliance</a>, https://www.unlv.edu/about/statements-compliance.

A successful learning experience requires mutual respect and trust between the students and the points of view

Week #	Lecture Topics	Reference	Notes
12	Emergency Response Planning		
13	Safety, Industrial Hygiene, Non-Ionizing Radiation	Cember Chapter 14	
14	Radiological Waste		
15	Term Project Presentation and Review		Study Week
16	Final Exam		