Summer 2022
Survey of Medical Physics
GMS 5905; Section 19241; 1 credit

CLASS MEETING INFO
Thursdays 1:45PM – 2:50PM
Room C2-33

INSTRUCTORS
Stephanie Leon, PhD; leons@radiology.ufl.edu
BC Schwarz, PhD; schwbc@radiology.ufl.edu
Guest Lectures: Lynn Rill, PhD; Manuel Arreola, PhD
Office Hours: Arrange via email

TEACHING ASSISTANTS
None

DESCRIPTION
(1 credit) This course is intended to prepare students for their future graduate studies and future medical physics career by informing students about career choices, work environments, residencies, board certification, and ethics and professionalism.

PRE-REQUISITES/CO-REQUISITES
ENU 6657: Diagnostic Radiological Physics I
ENU 6659: Nuclear Medicine Instrumentation and Procedure
BME 6591: Therapeutic Radiological Physics I

OBJECTIVES
1. Students will learn about the different subspecialties of medical physics/health physics and their required qualifications, anticipated salaries, and anticipated future demand
2. Students will learn about available work environments for medical physicists and the benefits/drawbacks of each of these environments
3. Students will learn about the rules and regulations governing the profession of medical physics
4. Students will learn about medical events and errors and the basics of root cause analysis
5. Students will learn about residency and the MP-RAP
6. Students will learn about the board certification process for medical physicists and the regulating bodies for board certification
7. Students will learn about ethics and professionalism in medical physics including HIPAA privacy laws
8. Students will plan their anticipated career path in graduate school and medical physics
9. Students will create a CV to which they can add future information and accomplishments
10. Students will participate in a mock residency interview to help prepare themselves for future residency interviews
11. Students will participate in ethics and professionalism discussions
12. Students will interview current medical physicists in different work environments and present on their interviews

MATERIALS AND SUPPLY FEES
AAPM Student Member Fee ($25 application fee); https://www.aapm.org/memb/prospect/Student_Application.asp
REQUIRED TEXTBOOKS & SOFTWARE
Registration for one medical physics listserv required (MEDPHYS for therapy; DXIMGMEDPHYS for diagnostic/nuc med)

RECOMMENDED MATERIALS
None

COURSE SCHEDULE (W = Wednesday, Th = Thursday)
05/12/22 (Th): Class introduction, review of syllabus, overview of medical physics subspecialties (SL, BCS)
   Assignments: Register for at least one listserv; sign up as AAPM student member

05/19/22 (Th): Overview of medical physics subspecialties continued (SL, BCS)
   Assignments: None

05/26/22 (Th): Working environments in medical physics; describe interviews project (SL)
   Assignments: Students rank interviews from most interested (1) to least interested (9)

06/02/22 (Th): QMPs, rules, and regulations (SL)
   Assignments: Research QMP requirements and post to discussion forum

06/09/22 (Th): ABR, ABSNM, ABMP, CHP; qualifications, process, and preparation for board certification (BCS)
   Assignments: None

06/16/22 (Th): Medical physics residencies and MP-RAP; CVs and personal statements (LR, BCS)
   Assignments: CV and personal statement preparation, Plan your career path

06/30/22 (Th): AAPM TG-109: Ethics and professionalism in medical physics and HIPAA (BCS)
   Assignments: Reading in preparation for ethics assignment

07/07/22 (Th): Discussion of ethical dilemmas in small groups (SL, BCS)
   Assignments: Summary of ethics discussion

07/14/22 (Th): Discussion of ethics with class; QA/QC, medical errors, and RCA (SL)
   Assignments: Root cause analysis

07/21/22 (Th): International medical physics; role of professional societies and involvement (BCS, SL, MA)
   Assignments: None

07/28/22 (Th): Student presentations and discussion of interview assignment (SL, BCS)
   Assignments: None

08/04/22 (Th): Student presentations and discussion of interview assignment (SL, BCS)
   Assignments: None

ATTENDANCE POLICY; CLASS EXPECTATIONS; MAKE-UP POLICY
Attendance is required during this course as it is a highly interactive course with some of the course grade dependent on group work and participation in class. Any class periods that may be missed should be brought to the attention of the instructors as far in advance as possible.

Lectures are broadcast live online and also recorded. Students who are feeling unwell, who are under quarantine, or who are “withheld from campus” are required to stay home and may attend the live online lectures if they are feeling up to it, with prior notification to the instructor. Access to the recorded lectures is by instructor permission only. Documentation supporting the reason why access is needed may be requested.

Make-up laboratory exercises and assignments will only be considered for exceptional circumstances and will be implemented by the instructor on a case-by-case basis.

GMS 5905, Survey of Medical Physics
Summer 2022
Excused absences must be consistent with university policies in the Graduate Catalog and require appropriate documentation: [http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#attendance](http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#attendance)

**EVALUATION OF GRADES**
A list of assignments in each category is found below the table. Each assignment is weighted equally within its category.

<table>
<thead>
<tr>
<th>Assignment Category</th>
<th>Percentage of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experiences</td>
<td>40%</td>
</tr>
<tr>
<td>Homework</td>
<td>50%</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Experiences**
- Interview a medical physicist
- Mock residency interview

**Homework**
- Plan your career path
- Prepare your CV
- Write your personal statement
- Ethics and professionalism group work
- Root cause analysis

**Participation**
- Becoming an AAPM member (if not already a member)
- Active reading of at least one medical physics listserv
- Posting to the class discussion boards and/or participating in in-class discussions

**GRADING POLICY**

<table>
<thead>
<tr>
<th>Percent</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100</td>
<td>A</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
</tr>
<tr>
<td>80-82</td>
<td>B-</td>
</tr>
<tr>
<td>77-79</td>
<td>C+</td>
</tr>
<tr>
<td>73-76</td>
<td>C</td>
</tr>
<tr>
<td>70-72</td>
<td>C-</td>
</tr>
<tr>
<td>67-69</td>
<td>D+</td>
</tr>
<tr>
<td>63-66</td>
<td>D</td>
</tr>
<tr>
<td>60-62</td>
<td>D-</td>
</tr>
<tr>
<td>59 &amp; below</td>
<td>E</td>
</tr>
</tbody>
</table>

More information on UF grading policy may be found at: [http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades](http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades)

**STUDENTS REQUIRING ACCOMMODATIONS**
Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center: [https://disability.ufl.edu/get-started/](https://disability.ufl.edu/get-started/). Once registered, students will receive an accommodation letter which must be presented to, and discussed with, the instructor when requesting accommodation. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.
COURSE EVALUATIONS
Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

UNIVERSITY HONESTY POLICY
UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

SOFTWARE USE
All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

STUDENT PRIVACY
There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html

CAMPUS RESOURCES

Health and Wellness

U Matter, We Care
Email: umatter@ufl.edu, Phone: 352-392-1575; Website: https://umatter.ufl.edu/

Counseling and Wellness Center
Phone: 352-392-1575; Website: https://counseling.ufl.edu/

Student Health Care Center:
Phone: 352-392-1161; Website: https://shcc.ufl.edu/

University Police Department
Phone: 352-392-1111 (or 911 for emergencies); Website: http://www.police.ufl.edu/

UF Health Shands Emergency Room/Trauma Center
Phone: 352-733-0111; Website: https://ufhealth.org/emergency-room-trauma-center
Location: 1515 SW Archer Road, Gainesville, FL, 32608

GatorWell Health Promotion Services
Phone: 352-273-4450; Website: https://gatorwell.ufsa.ufl.edu/

Academic Resources

E-learning Technical Support
Email: helpdesk@ufl.edu; Phone: 352-392-4357; Website: https://helpdesk.ufl.edu/

Career Connections Center
Phone: 352-392-1601; Website: https://career.ufl.edu/
Location: Reitz Union, Suite 1300

**Library Support**
Website: [https://uflib.ufl.edu/](https://uflib.ufl.edu/)

**Teaching Center**
Phone: 352-392-2010 or 352-392-6420; Website: [https://teachingcenter.ufl.edu/](https://teachingcenter.ufl.edu/)
Location: Broward Hall

**Writing Studio**
Phone: 352-846-1138; Website: [https://writing.ufl.edu/writing-studio/](https://writing.ufl.edu/writing-studio/)
Location: 2215 Turlington Hall

**Student Complaints (On-Campus)**
Website: [https://sccr.dso.ufl.edu/policies/student-honor-%20code-student-conduct-code/](https://sccr.dso.ufl.edu/policies/student-honor-%20code-student-conduct-code/)

**Student Complaints (On-Line)**
Website: [https://distance.ufl.edu/state-authorization-status/#student-complaint](https://distance.ufl.edu/state-authorization-status/#student-complaint)