

Physics 225 Introduction to Computational Physics and Programming Fall 2022

- This is a physics course not a computer science course so it isn't a course in programming. This is a course in using computers and other similar things to do physics, and programming is part of that but not all of that. Over the course of the semester the goal is that you are comfortable figuring out ways to solve problems that are more complex than what can be done with a pencil and paper. Those solutions can take multiple forms, and some will be computer programs.
- My hope is that the course is fun at most of the time and that you are more comfortable with doing forms of computational physics or modeling by the end of the term.
- The academic demands in this course and your other classes can be understandably difficult. It is normal to feel anxious about your academic ability, especially when unexpected life events emerge. I want to invite you to connect with me about any difficulties you have in this course as soon as possible. Your success is important. I want you to get the additional assistance needed before the challenges become too much. **DON'T WAIT** to get help. Asking before you really need it is a great plan.
- Instructor: Dr. Dawn Hollenbeck
 - ▷ Email: dmhsps@rit.edu
 - ▷ Office hours likely on MWF, and other times by appointment. Plus most of that time my door is open. I'll post stuff on StarFish so you can set up appointments or see when I'm around
 - ▷ Office: (CAR) 76-1264
 - ▷ Phone: 585-475-6652 (but don't call it unless you really have to because I avoid answering it.)
- Lecture: Friday 2:00 pm-2:50 pm in GOS (8) - 3305
Labs: T Th 9-10:50am, TuTh 2-3:50PM, or TuTh 4-5:50pm in GOS-3130
- Computers: If you have a laptop or tablet you might want to bring it so you can use that instead of one of the machines we have. You do not need bring your personal machine but there is something to say for familiarity. Your computer doesn't need extra special stuff if you can get on the internet it should be ok. There are NO GAMES allowed unless I've approved or arranged for them.
- Masks: I have close contact with a person that is particularly at risk from COVID so I would really appreciate if you could wear masks in class and especially in lab. Additionally, if I get COVID then class will sort of be a problem.
- Attendance and Participation:
 - ▷ I expect you to show up to class when possible.
 - ▷ I expect you to engage in discussions or tasks in a respectful manner.
 - ▷ If you are sick please do not come to class. While I value sharing, I don't value sharing germs. And I think everyone else likely feels the same. I will do everything rational in my power to make sure if you aren't in class you don't miss out. That does not include live streaming class, that would be a massive negative impact on everyone in class.
 - ▷ If you are sick or going to miss class for any reason just let me know. You don't have to give me a reason but I do actually worry about all of you.
 - ▷ I will do by best to make sure everything is kept as light as possible. Seriousness can be overrated. That doesn't mean class is playtime but learning is supposed to be fun. At times hopefully it will feel more like play than work.
 - ▷ Silence your cell phones or other electronic devices that make noise. We don't want to listen to your ring tone.
 - ▷ No games on your phone or tablet or otherwise. If you are lucky we will just pick on you, that is if you are lucky. Seriously, you need to focus on the class.
 - ▷ If you need to take or make a call, that is ok just go in the hall to do it.
 - ▷ If you need to leave for any reason, it is ok. The only rule is to not make a scene if possible.
- Food and drink: There is no food or drink in the workshop room. You can seal up your stuff and store it in your bag or it goes out in the hall.

- Grading:
 - ▷ Labs: 60%
 - ▷ Homework, quizzes, polls, and similar: 10%
 - ▷ Final project: 20%
 - ▷ Attendance (includes being respectful): 10% [free points if you show up and work to avoid being a jerk]
- Rough Letter Grades:
 - ▷ 90-100: A- to A
 - ▷ 80-89: B- to B+
 - ▷ 70-79: C- to C+
 - ▷ 60-69: D
 - ▷ <60: F
- Being respectful:

All members of the RIT community are expected to be respectful to contribute to a positive learning environment. Everyone should feel welcome in our class. No one should be made to feel as though they do not belong and be respectful.

Be courteous to each other and if someone says that your words or behavior are unwelcome, then please respect those wishes. If someone else is offended at your words or actions, then you need to stop and use it as a learning experience. Everyone is a jerk at times but the goal is to actively try not to be.
- Policy Prohibiting Discrimination and Harassment/Title IX Reporting:

RIT is committed to providing a safe learning environment, free of harassment and discrimination as articulated in our university policies located on our governance website (<https://www.rit.edu/academicaffairs/policiesmanual/c060>.) RITs policies require faculty to share information about incidents of gender based discrimination and harassment with RITs Title IX coordinator or deputy coordinators, regardless whether the incidents are stated to them in person or shared by students as part of their coursework.

If you have a concern related to gender-based discrimination and/or harassment and prefer to have a confidential discussion, assistance is available from one of RITs confidential resources on campus (listed below).

 1. The Center for Women & Gender: Campus Center Room 1760; 585-475-7464; CARES (available 24 hours/7 days a week) Call or text 585-295-3533.
 2. RIT Student Health Center August Health Center/1st floor; 585-475-2255.
 3. RIT Counseling Center - August Health Center /2nd floor - 2100; 585-475-2261.
 4. The Ombuds Office Student Auxiliary Union/Room 1114; 585-475-7200 or 585-475-2876.
 5. The Center for Religious Life Schmitt Interfaith Center/Rm1400; 585-475-2137.
 6. NTID Counseling & Academic Advising Services 2nd Floor Lynden B. Johnson; 585-475-6468 (v), 585-286-4070 (vp).
- Academic Integrity Statement:

As an institution of higher learning, RIT expects students to behave honestly and ethically at all times, especially when submitting work for evaluation in conjunction with any course or degree requirement. The School of Physics and Astronomy encourages all students to become familiar with the RIT Honor Code and with RITs Academic Honesty Policy.
- Statement on Reasonable Accommodations:

The Statement on Reasonable Accommodations is required in your syllabus according to this memo. The required text is: RIT is committed to providing reasonable accommodations to students with disabilities. If you would like to request accommodations such as special seating or testing modifications due to a disability, please contact the Disability Services Office. It is located in the Student Alumni Union, Room 1150; the Web site is www.rit.edu/dso. After you receive accommodation approval, it is imperative that you see me during office hours so that we can work out whatever arrangement is necessary.