

PHY 557, Spring 2019 Course Syllabus

Physics 557 has one section which meets Tues. and Thurs 8:30 - 9:50 AM in Physics room D-122. We cover the material in Ch. 1 – 18 of the text book.

Instructors

The PHY 557 instructor is Prof. Michael Wilking, Physics D106, 632-8087.
Michael.Wilking_at_stonybrook.edu

The PHY 557 TA is

For the actual email addresses substitute @ for (at). The best way to reach your instructors is by email; put PHY557 somewhere in the subject line of your message to get their attention. They get hundreds of emails every day.

Blackboard

Most of the course administration will be done via Blackboard. Please make sure that you have access to your Stony Brook Blackboard account, that this course is listed there (in 1st week of classes for sure), and that the email address listed in your Blackboard account is one that you monitor.

Office Hours

We will use a doodle poll to select office hours for both the course instructor and the TA. Office hours are held in the offices listed at the top of the syllabus. Office hours will be held beginning the 2nd week of class.

Textbook

We will be using “Modern Particle Physics” by Mark Thomson from Cambridge University Press. This is a required textbook, as much of the material will be drawn from the book, as well as many of the homework problems.

Course Evaluation

Your final grade will be based on the following.

- 50% Homework
- 20% Midterm Exam
- 30% Final Project/Presentation

There are no extra credit or other special supplementary assignments available.

Homework

Homework problems will be a combination of assigned problems in the textbook and additional questions written by the instructor. They will be assigned on Thursdays, and due in class the following Thursday.

Midterm Exam

A midterm exam will take place in class on March 28th, 2019.

Final Project and Presentation

A final project on an experimental particle physics measurement is required. This involves a short (5 page) report, which includes an explanation of the theory, experimental design, event selection, important backgrounds, and important systematic uncertainties of the measurement. A 20 minute presentation on the result will then be given to the rest of the class (15 minutes + 5 minutes of questions). More details will be provided in the formal assignment handout.

Academic Honesty

Academic dishonesty will not be tolerated. In this course, you are encouraged to work with other students, but all turned in assignments must be the unique work of the student. Egregious violations of this policy may result in a lower (possibly failing) course grade, and/or referral to the University academic judiciary (see below).

Standard University Policy

ELECTRONIC COMMUNICATION POLICY FOR ALL STONY BROOK STUDENTS:
Email to your University email account is an important way of communicating with you for this course. For most students the email address is 'firstname.lastname@stonybrook.edu', and the account can be accessed here: <http://www.stonybrook.edu/mycloud>. **It is *your responsibility* to read your email received at this account.**

For instructions about how to verify your University email address see this: <http://it.stonybrook.edu/help/kb/checking-or-changing-your-mail-forwarding-address-in-the-epo> . You can set up email forwarding using instructions here: <http://it.stonybrook.edu/help/kb/setting-up-mail-forwarding-in-google-mail> . **If you choose to forward your University email to another account, we are not responsible for any undeliverable messages.**

Student Accessibility Support Center Statement

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Student Accessibility Support Center, ECC (Educational Communications Center) Building, Room 128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Student Accessibility Support Center. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities>.

Academic Integrity Statement

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.