

# **"COURSE SYLLABUS"**

## **PHY 3370 – Introduction to Theoretical Physics**

**Credit Hours: 3**

**Spring 2018**

**Farrington Building, Room 107**

**9:00 – 10:00 a.m.**

**Instructor:** Dr. Barry Friedman  
**Office Location:** Farrington Building Room 204B  
  
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**Office Hours:** Monday, Wednesday, Friday 8 am – 9 am

**Course Description:** The course is an introduction to the methods of theoretical physics

**Course Objective:** The objective of this course is cover the methods of theoretical physics (ch 1-9 of the required textbook).

**Required Textbook:** R. Shankar, “Basic Training in Mathematics: A Fitness Program for Science Students ”

**Required Supplies:** Pencil or pen, paper.

**Optional Texts:** “Neural Networks and Deep Learning ” Michael A. Nielsen

**Attendance Policy:** Class will start and end at the assigned times. Please see the university catalogue for institution expectation regarding class attendance.

**Assignments:** Homework assignments will be assigned.

Exams:	Three major examinations will be given during the semester. At the end of the semester there will be a comprehensive final examination.
Grading Plan:	The hour exams will count 50%. The final will count 30%. Homework will count 20%.
Academic Dishonesty:	All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.
Classroom Rules of Conduct:	Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.
Visitors in the Classroom:	Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether the visitor will be allowed to remain in the classroom.
Course Outline:	The course will provisionally cover pages 1 - 303 in Shankar.
American Disabilities Act:	SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable

accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until you register with the Counseling Center.

**Religious Holidays:**

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

**Cell phone use:** Cell phone use is forbidden in class.

See the academic policy statement below:

The use by students of electronic devices that perform the function of a telephone or text messenger during class-time may be prohibited if deemed disruptive by the instructor to the conduct of the class. Arrangements for handling potential emergency situations may be granted at the discretion of the instructor. Failure to comply with the instructor's policy could result in expulsion from the classroom or with multiple offenses, failure of the course.

3.0 Any use of a telephone or text messenger or any device that performs these functions during a test period is prohibited. These devices should not be present during a test or should be stored securely in such a way that they cannot be seen or used by the student. Even the visible presence of such a device during the test period will result in a zero for that test. Use of these devices during a test is considered de facto evidence of cheating and could result in a charge of academic dishonesty (see student code of conduct

<http://www.shsu.edu/students/guide/StudentGuidelines2010-2012.pdf>