Syllabus

Particle Physics
029:275
Spring 2007, 3 s.h.
Mary Hall Reno

Contact Information

Mary Hall Reno                        Physics & Astronomy
Office: 515 VAN                       University of Iowa
Hours: Mondays 2:30-3:30              Location: 203 VAN
Wednesdays 9:30-11:30                 Hours: M-F 8-12,1-5
Open door policy for questions.       Phone: +1 319 335 1686
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Course Information

Sections covered by this syllabus:

<table>
<thead>
<tr>
<th>Type</th>
<th>Sec. #</th>
<th>Time &amp; Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>Lec</td>
<td>001</td>
<td>618 VAN 11:30-12:20</td>
<td>Hallsie Reno</td>
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Course Description: Topics covered: elementary particle properties and phenomenology, quark-parton models, quantum chromodynamics, unified theory of weak and electromagnetic interactions. Repeatable.

Course Format:
Weekly problem sets will significantly supplement the lectures. The normal expectation for a physics course is that for a 3 s.h. course, a student will spend at least 6 hours on average per week on coursework outside of class. It is expected that students will discuss homework problems, however, the work submitted should be the student's own work. The midterm exams will be Monday, February 26 and Friday, April 13. For the Feb. 26 exam, students may begin taking the exam in 618 VAN at 10:30 (an hour before class begins). The final exam is scheduled for 7:30 AM on Thursday, May 10.

Grade Composition:
Attendance is not required although it is highly recommended. The final grade will consist of 50% homework, 15% for each of the two midterm exams and 20% for the final exam, which will be comprehensive. Plus/minus grading will be used.

Assigned Readings
Bibliography
Additional textbooks are on reserve: C. Quigg, Gauge theories of strong, weak and electromagnetic interactions; F. Close, Introduction to quarks and partons; D.J. Griffiths, Introduction to elementary particles; F. Halzen and A.D. Martin, Quarks and leptons; J.D. Bjorken and S. Drell, Relativistic quantum mechanics and Relativistic quantum fields.
Course Policies

Policy on Make-up Exams
Make-up exams will be scheduled for students who miss an exam due to illness, religious obligations or other unavoidable circumstances or University activity. The student is advised to contact the professor before the exam is held.

Plagiarism Policy
Plagiarism and cheating are not tolerated. Plagiarism includes but is not limited to copying line for line solutions to assigned problems from other students or from other sources (such as online solutions). Details of the CLAS policies are found in the Student academic handbook, http://www.clas.uiowa.edu/students/academic_handbook/

Complaint Policy
If you feel that I have treated you unfairly or acted unprofessionally or otherwise failed to meet my responsibilities as an instructor, please bring the matter to my attention so that we can work together to resolve the problem. If you remain unsatisfied you may contact the chair of the department, (Prof. Thomas Boggess, 335-1689). If your concerns have still not been resolved at that point, you may submit a written complaint to the Associate Dean for Academic Programs, 120 Schaeffer Hall (335-2633) (for undergraduates), the Graduate College, 205 Gilmore Hall, 335-2137 (for graduate students).

Accommodation of Students with Disabilities
I would like to hear from anyone who has a disability which may require some modification of seating, testing, or other class requirements so that appropriate arrangements may be made. Please talk with me after class or during my office hours.