

**Four Year Model Plan of Study for a Major in Physics
2009-2010**

First Year			
Fall Semester		Spring Semester	
Engl 160	3 hours	Engl 161	3 hours
Math 180 ¹	5 hours	Math 181 ¹	5 hours
Chem 112 ¹	5 hours	Phys 141	4 hours
General Education Requirement Course	3 hours	Chem 114 ¹	5 hours
Total	16 hours	Total	17 hours
Second Year			
Fall Semester		Spring Semester	
Math 210	3 hours	Math 220	4 hours
Phys 142	4 hours	Phys 215	3 hours
Foreign Language	4 hours	Phys 244	4 hours
General Education Requirement Course	3 hours	Phys 245	3 hours
General Education Requirement Course	3 hours	Foreign Language	4 hours
Total	17 hours	Total	18 hours
Third Year			
Fall Semester		Spring Semester	
Phys 401 (or 411) ³	4 hours	Phys 402 (or 412) ²	4 hours
Phys 461 (or 481&499) ³	4-5 hours	Phys 441	4 hours
Foreign Language	4 hours	Foreign Language	4 hours
General Education Requirement Course	3 hours	General Education Requirement Course	3 hours
Total	15-16 hours	Total	15 hours
Fourth Year			
Fall Semester		Spring Semester	
Phys 411 (or 401) ³	4 hours	Phys 412 (or 402) ²	4 hours
Phys 481&499 (or 461) ³	4-5 hours	Phys 425 or 482 ²	4-5 hours
General Education Requirement Course/Elective	3 hours	General Education Requirement Course/Elective	3 hours
Electives	1-6 hours	Electives	1-6 hours
Total	12-18 hours	Total	12-18 hours

1. Math 180 satisfies LAS Quantitative Reasoning requirement.

2. Phys 402 or 412, and 425 or 482 are required for the BS degree, but are not required for the BA degree.

3. For these courses the "or" means one course should be taken in the given semester and the other one in a different semester. The suggested ordering is indicated, but there is flexibility as shown in parentheses and the final choice is up to the student.

Note: Physics 141, 142, and 244 are offered every semester. All other physics courses are offered only in the semester indicated.

Note: Students must earn at least 40 hours at the 200, 300, or 400 level at a 4-year college or university. These hours may include hours in the major.

Note: Beginning fall 2007, the GenEd Requirement is 9 courses: 2 laboratory courses from Analyzing the Natural World, 1 course from each of Understanding the Individual and Society, Understanding the Past, Understanding the Creative Arts, Exploring World Cultures, and Understanding U.S. Society. The 2 remaining GenEd courses can be taken from any category, and are satisfied by Phys 141 and 142.

Four Year Model Plan of Study for a BS in the Teaching of Physics

Spring 2009

First Year			
Fall Semester		Spring Semester	
Engl 160	3 hours	Engl 161	3 hours
Math 180 ¹	5 hours	Math 181 ¹	5 hours
Chem 112 ¹	5 hours	Phys 141	4 hours
General Education Requirement Course	3 hours	Chem 114 ¹	5 hours
Total	16 hours	Total	17 hours
Second Year			
Fall Semester		Spring Semester	
Math 210	3 hours	Phys 215	4 hours
Phys 142	4 hours	Phys 244	3 hours
Professional Education Course ²	3 hours	Phys 245	4 hours
General Education Requirement Course	3 hours	Math 220	3 hours
General Education Requirement Course	3 hours	Professional Education Course ²	3 hours
Total	16 hours	Total	17 hours
Third Year			
Fall Semester		Spring Semester	
Phys 401 (or 411) ³	4 hours	Phys 494 ⁴	4 hours
Phys 461 (or 481&499) ³	4-5 hours	Foreign Language	4 hours
Foreign Language	4 hours	Professional Education Course ²	4 hours
General Education Requirement Course	3 hours	General Education Requirement Course	3 hours
Total	15 hours	Total	15 hours
Fourth Year			
Fall Semester		Spring Semester	
Phys 411 (or 401) ³	4 hours	Phys 441 ⁵	4 hours
Phys 481&499 (or 461) ³	4-5 hours	Foreign Language	4 hours
Foreign Language	4 hours	General Education Requirement Course	3 hours
General Education Requirement Course	3 hours	Electives	1-6 hours
Total	15 hours	Total	12 hours

1. Math 180 satisfies the LAS Quantitative Reasoning requirement and 5 hours of the LAS Natural Sciences requirement. The remaining 8 hours of the LAS Natural Sciences requirement or Analyzing the Natural World requirement is satisfied by Chem 112, 114.

2. Teaching education students must fulfill certain professional education course requirements. See the *Secondary Teacher Education Handbook*, which is available from the Council on Teacher Education (CTE) or the Physics Department for the list of required professional education courses. Also note that the CTE recommends application for candidacy in a teacher education program after obtaining a minimum of 45 hours of coursework and while taking one of the professional education courses.

3. For these courses the "or" means one course should be taken in the given semester and the other one in a different semester. The suggested ordering is indicated, but there is flexibility as shown in parentheses and the final choice is up to the student.

4. Physics 494, depending on needs and availability, may be offered in the fall or spring semester. Check with the Physics Department for your particular case. Please note there are additional student teaching courses (e.g. Phys 470 and 471) that are not required for the BST in Physics, but which are required for a teaching certification. These additional student teaching courses often have prerequisites, including Phys 494. Please contact the CTE for details and to insure that all prerequisites are in place before the student teaching is undertaken.

5. Physics 441 is offered every spring semester and could also be taken in the third year.

Note: Please see the three notes in the "Notes" section of the preceding plan of study for a major in physics to obtain additional details that are still relevant for the BS in the teaching of physics program, and consequently may be of interest.