

## Required Courses for Students Majoring in Physics in the College of Science (applicable to students admitted in Fall 2008)

Academic Year Semester Course Titles	First Year		Second Year		Third Year		Fourth Year	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Common Required Courses (30)	Chinese (3)	Chinese (3)	History (2)					
	Foreign Languages (3)	Foreign Languages (3)						
	<ul style="list-style-type: none"> <li>● 16 credit hours of General Education courses, of which one course must be from each of the following core areas: Humanities &amp; Thought, Physical Science, Applied Science, and Social Thought &amp; Phenomenon. The remaining courses may be General Education electives.</li> <li>● One non-credit Physical Education course each semester of their first three academic years, two of which must be Freshman PE I and Freshman PE II.</li> <li>● One non-credit Service Education course in the fall and spring semester of an academic year.</li> </ul>							
Required Courses of the Department (62/63)	Calculus MA1001 (4)	Calculus MA1002 (4)	Applied Mathematics PH2003 (3)	Applied Mathematics PH2004 (3)	Quantum Physics PH3009 (3)	Quantum and Statistical Physics PH3010 (3)		
	Experimental Physics I PH1009 (3)	Experimental Physics I PH1010 (3)	Experimental Physics II PH2011 (3)	Experimental Physics II PH2012 (3)	Thermal Physics PH3011 (3)	Experimental Modern Physics PH3036 (3) Note 6		
	General Physics PH1001 (3)	General Physics PH1002 (3)	Mechanics PH2013 (3)	Wave Physics PH2010 (3)		Topical Research in Experimental Modern Physics PH3012 (3) Note 6		
	General Chemistry I CM1009 (3) Note 7	General Chemistry II CM1010 (3) Note 7	Electromagnetism PH2015 (3)	Intro to Modern Physics PH2035 (3)				
	CM1008 General Chemistry Laboratory (1) Note 7							
	General Biology I LS1011 (3) Note 7	General Biology II LS1012 (3) Note 7						
Total Semester Credit Hours	19/20	19	12	12	6	6	0	0

Notes	<ol style="list-style-type: none"> <li>1. The numerical figures in parentheses refer to course credit hours.</li> <li>2. The total number of credit hours for required courses amounts to 92/93; the minimum number of earned credit hours required for graduation is 128.</li> <li>3. Students are required to earn a minimum of 18 credit hours of electives offered by this Department (i.e., courses whose titles start with PE) during their term of study at the University; undeclared majors in the College of Science and students majoring in physics at the undergraduate level are also subject to this requirement.</li> <li>4. The calculation of semester hours shall not include credit hours earned from General Education courses or History.</li> <li>5. First-year students may take Freshman English or other English courses offered by the English department to fulfill the University's foreign language course requirement, but may not waive Freshman English with courses providing instruction in other second foreign languages.</li> <li>6. Students are required to receive a passing grade in either Experimental Modern Physics (PH3036) or Topical Research in Experimental Modern (PH3012); no more than one special topic course may be taken each semester.</li> <li>7. Students are required to take and pass any of the following course sequences: <ol style="list-style-type: none"> <li>(1) General Chemistry I (CM1009), General Chemistry II (CM1010), and General Chemistry Laboratory (CM1008);</li> <li>(2) General Biology I (LS1011) and General Biology II (LS1012);</li> <li>(3) General Chemistry I (CM1009), General Biology I (LS1011), and General Chemistry Laboratory (CM1008).</li> </ol> </li> <li>8. Before being permitted to graduate, students must demonstrate their English proficiency by reaching a threshold score in one of the English proficiency tests recognized by the Language Center or by passing two semesters of Remedial English; credit hours thus earned may not be counted toward the minimum number required for a baccalaureate degree (for details, refer to the University's <i>Implementation Procedures for Freshman Foreign Language Courses</i> and <i>Implementation Procedures for Remedial English Courses</i>).</li> <li>9. Students are required to receive a passing grade in Service Education in accordance with the University's <i>Service Education Implementation Procedures</i> before being permitted to graduate.</li> </ol>
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