

**BACHELOR OF SCIENCE IN PHYSICS  
APPLIED OPTION**  
Partial curriculum, showing the required courses

<b>FALL</b>	<b>1<sup>ST</sup> YEAR</b>	<b>SPRING</b>
Phys 140Q Math† Engl 105 Chem 127Q,128Q, or 137Q		Phys 141Q Math† Engl 109 Chem 128Q,129Q, or 138Q
	<b>2<sup>ND</sup> YEAR</b>	
Phys 142Q Math† Phys 258Z*		Phys 230Q* Math† Phys Elect++
	<b>3<sup>RD</sup> YEAR</b>	
Phys 209Q* Math† Phys Elec**		Phys 210Q* Math† Phys Elect++
	<b>4<sup>TH</sup> YEAR</b>	
Phys 271Q* Phys Elec**		Phys Elect++  Phys Elect++

**Required Credits:**

120 credits, total

A total of 48 credits from 200-level courses in physics, other sciences, mathematics, or engineering are required. Among these, 30 credits must be physics courses. The 30 credits must include PHYS 209Q, 210Q, 230Q, 258Z, and 271Q, plus a minimum of nine credits from the following eight courses: PHYS 256Q, 259Z, 273Q, 274Q, 275Q, 281Q, 285Z, and 325, with at least three of the nine credits being from an advanced laboratory (PHYS 256Q, 259Z, or 285Z). An experimental research project (PHYS 299) may count towards the advanced laboratory requirement. The applied option for the Bachelor of Science degree requires a minimum of 12 credits from 200-level related courses in mathematics, other sciences, or engineering. To complete the 48 total required credits for the applied option, the remaining six credits may come from 200-level courses in physics, other sciences, mathematics, or engineering. No more than two credits from PHYS 291, and no more than six credits from PHYS 299, may be counted towards this degree option.

**Consult the catalog for a complete list of course requirements, and select electives after discussing your plans with your advisor.**

† The math sequence can begin Math 112Q, 113Q, and 114Q, or Math 115Q and 116Q, or Math 120Q and 121Q, depending on preparation. The sequence should include Math 210Q and 211Q or Math 220Q and Math 221Q, Math 227Q, 252Q, 272Q

\* Mandatory courses for Bachelor of Science, Applied Option

\*\* Some electives available fall semester: Phys 281 (Optics), Phys 273 (Solid State), Phys 311 (Mathematical Physics)

++ Some electives available spring semester: Phys 256 (Electronics), Phys 259Z (Lab), Phys 274 (Nuclei and Particles), Phys 275 (Principles of Laser), Phys 312 (Mathematical Physics)

