

## Professional Physics Concentration: Curriculum Guide – 2011-2012

The degree courses are in boldface. The plan below is only a suggested sequence, but courses must be taken with observance of prerequisites. Prerequisites are indicated in brackets.

	Fall	Spring
Freshman	<b>PHYS 205</b> [ <i>MATH 131</i> ] <b>4</b> <b>PHYS 205L</b> <b>1</b> <b>MATH 131</b> <b>4</b> English course* <b>3</b> (Basic skills course, if needed*, UNIV 101, or one FS) <b>3</b> 15 hrs.	<b>PHYS 206</b> [ <i>PHYS 205, MATH 132</i> ] <b>4</b> <b>PHYS 206L</b> [ <i>PHYS 205L</i> ] <b>1</b> <b>MATH 132</b> [ <i>MATH 131</i> ] <b>4</b> COMM 101 <b>3</b> PE 101 or HLTH 111 <b>2-3</b> 14-15 hrs.
Sophomore	<b>PHYS 215</b> [ <i>PHYS 206, MATH 132</i> ] <b>3</b> <b>PHYS 215L</b> <b>1</b> <b>PHYS 321</b> [ <i>PHYS 206, MATH 132</i> ] <b>2</b> <b>CHEM 105</b> <b>3</b> <b>CHEM 105L</b> <b>1</b> Found. Stud. Course <b>3</b> Option <b>3</b> 16 hrs.	<b>PHYS 216</b> [ <i>PHYS 215</i> ] <b>3</b> <b>PHYS 216L</b> [ <i>PHYS 215L</i> ] <b>1</b> <b>PHYS 322</b> [ <i>PHYS 321</i> ] <b>2</b> <b>PHYS 310 or 341</b> [ <i>PHYS 322</i> ] <b>3</b> <b>CHEM 106</b> [ <i>CHEM 105</i> ] <b>3</b> <b>CHEM 106L</b> <b>1</b> Found. Stud. Course <b>3</b> 16 hrs.
Junior	<b>PHYS 311 or 342</b> <b>3</b> [ <i>PHYS 310 or 341</i> ] <b>PHYS 315</b> [ <i>PHYS 216, 216L</i> ] <b>1</b> <b>MATH 231</b> [ <i>MATH 132</i> ] <b>4</b> Found. Stud. course <b>3</b> Found. Stud. course <b>3</b> Option <b>3</b> 17 hrs.	<b>PHYS 341 or 310</b> [ <i>PHYS 322</i> ] <b>3</b> <b>PHYS 316</b> [ <i>PHYS 315</i> ] <b>1</b> <b>PHYS 420 or 497</b> [ <i>PHYS 216, 322</i> ] <b>3</b> English 305T <b>3</b> Found. Stud. course <b>3</b> Option <b>3</b> 16 hrs.
Senior	<b>PHYS 342 or 311</b> <b>3</b> [ <i>PHYS 310 or 341</i> ] Found. Stud. course <b>3</b> Found. Stud. course <b>3</b> Option <b>3</b> Option <b>3</b> 15 hrs.	<b>PHYS 497 or 420</b> [ <i>PHYS 216, 322</i> ] <b>3</b> <b>MATH 333</b> [ <i>Math 132</i> ] <b>3</b> Found. Stud. course <b>3</b> Option <b>3</b> Option <b>3</b> 15 hrs.

\*Specific requirements are determined by proficiencies met upon entering. You may need one semester of English (107) or two (101 & 105). One basic skills course is built into the schedule, but you may need more. Additional courses reduce the number of "Option" courses later in the curriculum. Two Foundational Studies UDIE courses may be replaced by completion of a minor or second major.