

**Recommended Plan of Study for PTE Majors Catalog Year 2011/2012**  
**Mathematics 145-based Sequence<sup>a</sup>**

***Fall Semester Freshman Year (17 s.h.)***

CHE 140 (IC-NSA)	4 s.h.
ENG 101 (IC)	3 s.h.
MAT 145 (IC-M)	4 s.h.
PHY 107	2 s.h.
FOR <sup>b</sup>	4 s.h.

***Spring Semester Freshman Year (15 s.h.)***

CHE 141	4 s.h.
COM 110 (IC)	3 s.h.
MAT 146 (MC-QR)	4 s.h.
PHY 110 (IC-NSA)	4 s.h.

***Fall Semester Sophomore Year (15 s.h.)***

BSC 101 <sup>c</sup>	3 s.h.
MAT 147	4 s.h.
PHY 111	4 s.h.
PHY 209	1 s.h.
(MC-ICL)	3 s.h.

***Spring Semester Sophomore Year (17 s.h.)***

GEOL 100 <sup>c</sup>	4 s.h.
PHY 112	4 s.h.
PHY 217	3 s.h.
(MC-LH)	3 s.h.
(MC-UST)	3 s.h.

***Fall Semester Junior Year (15 s.h.)***

C&I 212	2 s.h.
PHY 205 (OC-SMT)	3 s.h.
PHY 220	3 s.h.
PHY 302	1 s.h.
PSY 110 (MC-IS)	3 s.h.
(OC-SS)	3 s.h.

***Spring Semester Junior Year (14 s.h.)<sup>c</sup>***

C&I 214	3 s.h.
PHY 270	2 s.h.
PHY 310	3 s.h.
PSY 215	3 s.h.
(OC-FA)	3 s.h.

***Fall Semester Senior Year (15 s.h.)***

C&I 216	3 s.h.
EAF 228/231/235 <sup>d</sup>	3 s.h.
PHY 240	3 s.h.
PHY 311	3 s.h.
(OC-H)	3 s.h.

***Spring Semester Senior Year (12 s.h.)***

PHY 312	3 s.h.
PHY 353	1 s.h.
STT 399.72	8 s.h.

<sup>a</sup> This generic plan of study is recommended for students taking Mathematics 145 their first semester. See the PTE advisor for specific advice in relation to your personal plan of study.

<sup>b</sup> All majors in the College of Arts & Sciences must satisfy a foreign language graduation requirement that may be met by three (3) *years* of one foreign language in high school or completion of the second semester or higher of college level foreign language with a grade of "C" or better or equivalent proficiency as determined by examination. Take another 3-4 hr. course if this requirement is already met. Note that 120 semester hours are required to graduate.

<sup>c</sup> An additional course is recommended if more hours are needed. Recommended courses include Communication 223 (*Small Group Processes*), Communication 283 (*Communication in the Classroom*), and Philosophy 250 (*Philosophy of Science*).

<sup>d</sup> Students must choose one course from the three.

## Required Courses by Number

BSC 101 – Fundamental Concepts in Biology

C&I 212 – Issues in Secondary Education

C&I 214 – Reading in the Content Areas of Secondary Education

C&I 216 – Instructional and Evaluation Methods in Secondary Education

CHE 140 – General Chemistry I

CHE 141 – General Chemistry II

COM 110 – Communication as Critical Inquiry

EAF 228 or 231 or 235 – Social Foundations / Philosophy/ Historical Foundations of Education

ENG 101 – Composition as Critical Inquiry

FOR – foreign language

GEO 100 – Earth Systems Science

MATH 145 – Calculus I

MATH 146 – Calculus II

MATH 147 – Calculus III

PHY 107 – Frontiers in Physics

PHY 110 – Physics for Science and Engineering I

PHY 111 – Physics for Science and Engineering II

PHY 112 – Physics for Science and Engineering III

PHY 205 – Origin of the Universe

PHY 209 – Introduction to Teaching High School Physics

PHY 217 – Methods of Theoretical Physics

PHY 220 – Mechanics I

PHY 240 – Electricity & Magnetism I

PHY 302 – Computer Applications in High School Physics

PHY 310 – Readings for Teaching High School Physics

PHY 311 – Teaching High School Physics

PHY 312 – Teaching Physics by Inquiry

PHY 353 – Student Teaching Seminar

PSY 110 – Fundamentals of Psychology

PSY 215 – Educational Psychology

STT 399.72 – Student Teaching in Physics

Courses labeled IC, MC, and OC (inner core, middle core, outer core) are general education courses where students are free to choose electives from social sciences, humanities, and fine arts when courses are not already required by the major.