

BS Engineering/DragonsTeach Physics Certification  
Sample Plan of Study  
2014

<p><b>1st Year</b></p> <p><b>Fall</b> CHEM 101 General Chemistry I ENGL 101 Exp Writing and Reading ENGR 100 CAD 1 ENGR 121 Computational Lab I MATH 121 Calculus UNIV 101 The Drexel Experience ENGR 101 Freshman Design I</p>	<p><b>Winter</b> CHEM 102 General Chemistry II ENGL 102 Persuasive Writing &amp; Reading ENGR 102 Freshman Design II ENGR 122 Computational Lab 2 MATH 122 Calculus II PHYS 101 Physics I UNIV 101 The Drexel Experience</p>	<p><b>Spring</b> BIO 141 Essential Biology ENGL 103 Analytical Writing and Reading ENGR 103 Freshman Design III MATH 200 Multivariable Calculus PHYS 102 Physics II UNIV 101 The Drexel Experience</p>
<p><b>2nd Year</b></p> <p><b>Fall</b> ENGR 201 Evaluation &amp; Presentation of Experimental Data ENGR 231 Linear Engineering Systems PHYS 201 Physics III Engineering Elective (200 Level) ESTM 201 STEM Teacher Education Prep (STEP 1)</p>	<p><b>Winter</b> ENGR 232 Dynamic Engineering Systems ENGR 202 Evaluation &amp; Presentation of Experimental Data Engineering Elective (200 Level) ESTM 201 STEM Teacher Education Prep (Step 2) KLCI I Knowing, Learning, and Classroom Interactions I</p>	<p><b>Spring</b> co-op</p>
<p><b>3rd Year</b></p> <p><b>Fall</b> Engineering Elective (200 Level) Free Elective (PHYS) MEM 220 Engineering Mechanics-Statics PHYS 330 Introduction to Nuclear Physics KLCI II Knowing, Learning, and Classroom Interactions II</p>	<p><b>Winter</b> Engineering Elective (200 Level) Engineering Elective (300+ Level) Dynamics MEM 238 EDEX 142 SPED I - Spec Ed Foundations KLCI III Knowing, Learning, and Classroom Interactions III</p>	<p><b>Spring</b> co-op</p>
<p><b>4th Year</b></p> <p><b>Fall</b> PHYS 326 Quantum Mechanics Technical Elective (PHYS) Engineering Elective (300+ Level) Free Elective Perspectives: Science &amp; Mathematics</p>	<p><b>Winter</b> MATH 291 Complex and Vector Analysis for Engineers PHYS 327 Quantum Mechanics II Engineering Elective (300+ Level) Engineering Elective (300+ Level)</p>	<p><b>Spring</b> co-op</p>
<p><b>5th Year</b></p> <p><b>Fall</b> Free Elective (PHYS) ECEE 304 EM Fields &amp; Waves PBI 1 Project Based Instruction EDEX 244 SPED 2 Incl Prac for Exceptional Stud PBI 2 Project Based Instruction Lab</p>	<p><b>Winter</b> Free Elective (PHYS) PHYS 317 Statistical Mechanics Engineering Elective (300+ Level) EDUC 265 SPED 3 Instructing ELL Research Methods</p>	<p><b>Spring</b> Engineering Senior Design Project Engineering Elective (300+ Level) Engineering Elective (300+ Level) Apprentice Teaching &amp; Seminar</p>