

BS Engineering/DragonsTeach Math Certification
Sample Plan of Study
2014

1st Year	Fall	Winter	Spring	Summer
	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	CHEM 102 General Chemistry II ENGL 102 Persuasive Writing & Reading ENGR 102 Freshman Design II ENGR 122 Computational Lab 2 MATH 122 Calculus II PHYS 101 Physics I UNIV 101 The Drexel Experience	BIO 141 Essential Biology ENGL 103 Analytical Writing and Reading ENGR 103 Freshman Design III MATH 200 Multivariate Calculus PHYS 102 Physics II UNIV 101 The Drexel Experience	
2nd Year	Fall ENGR 201 Evaluation & 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)	Winter ENGR 232 Dynamic Engineering Systems ENGR 202 Evaluation & Presentation of Experimental Data Engineering Elective (200 Level) ESTM 210 STEM Teacher Education Prep (Step 2) KLCI I Knowing, Learning, and Classroom Interactions I	Spring co-op	Summer co-op
3rd Year	Fall Engineering Elective (200 Level) Engineering Elective (200 Level) MATH 220 Mathematical Reasoning (Tech Elective) ESTM 370 Functions & Modeling (BSE Elective) KLCI II Knowing, Learning, and Classroom Interactions II	Winter Engineering Elective (200 Level) Engineering Elective (300+ Level) Engineering Elective (300+ Level) EDEX 142 SPED I - Spec Ed Foundations KLCI III Knowing, Learning, and Classroom Interactions III	Spring co-op	Summer co-op
4th Year	Fall PHYS 326 Quantum Mechanics Technical Elective (PHYS) Engineering Elective (300+ Level) Free Elective Perspectives: Science & Mathematics	Winter MATH 291 Complex and Vector Analysis for Engineers PHYS 327 Quantum Mechanics II Engineering Elective (300+ Level) Engineering Elective (300+ Level) Research Methods	Spring co-op	Summer co-op
5th Year	Fall Free Elective (PHYS) ECEE 304 EM Fields & Waves PBI 1 Project Based Instruction EDEX 244 SPED 2 Incl Prac for Exceptional Stud PBI 2 Project Based Instruction Lab	Winter PHYS 317 Free Elective (PHYS) Statistical Mechanics Engineering Elective (300+ Level) EDUC 265 SPED 3 Insructing ELL	Spring Engineering Senior Design Project Engineering Elective (300+ Level) Engineering Elective (300+ Level) Apprentice Teaching & Seminar	Summer