Example Program: BS in Applied Mathematics, Seattle Pacific University

Chemistry Concentration

Core Courses (Required)	Credits
MAT 1234 Calculus I	5
MAT 1235 Calculus II	5
MAT 1236 Calculus III	5
MAT 2360 Introduction to Statistics for Sciences	5
MAT 2401 Linear Algebra	3
MAT 2720 Discrete Mathematics	3
CSC 2230 Computer Programming for Engineers	5
MAT 4899 Senior Capstone Seminar	3
Subtotal	**34**
Upper Division Mathematics Electives:	
MAT 3237 Differential Equations	3
MAT 3238 Vector Calculus	3
MAT 3360 Probability & Statistics	5
MAT 3724 Applied Analysis	3
MAT 4363 Mathematical Statistics	3
MAT 4830 Mathematical Modeling	5
Subtotal	**22**
Lower Division Courses in Chemistry and Physics:*	
CHM 1211 General Chemistry I	5
CHM 1212 General Chemistry II	5
PHY 1121 Physics for Science & Engineering	5
PHY 1122 Physics for Science & Engineering	5
PHY 1123 Physics for Science & Engineering	5
Subtotal	**25**
Upper Division Electives in Chemistry:	
CHM 3225 Chemical Equilibrium & Analysis	5
CHM 3410 Survey of Physical Chemistry	5
CHM 3421 Quantum Mechanics	4
CHM 3422 Statistical Thermodynamics	4
CHM 3461 Physical Chemistry Lab I	2
Subtotal	**20**
Total	**101**

* While these lower-division credits in chemistry are not directly required for the BS in Applied Mathematics, they are prerequisites for the upper-division electives, so it is necessary to take them as a part of the major.