

**Example Program: BS in Applied Mathematics, Seattle Pacific University**  
**Computational Mathematics Concentration**

<b>Core Courses (Required)</b>	<b>Credits</b>
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 2430* Data Structures I	5
MAT 4899 Senior Capstone Seminar	3
<b>Subtotal</b>	<b>34</b>
<b>Upper Division Mathematics Electives:</b>	
MAT 3237 Differential Equations	3
MAT 3238 Vector Calculus	3
MAT 3360 Probability & Statistics	5
MAT 3724 Applied Analysis	3
MAT 4725 Numerical Analysis	5
MAT 4830 Mathematical Modeling	5
<b>Subtotal</b>	<b>24</b>
<b>Lower Division Computer Science Courses:**</b>	
CSC 1230 Problem Solving & Programming	5
CSC 2431 Data Structures II	5
<b>Subtotal</b>	<b>10</b>
<b>Upper Division Electives in Computer Science:</b>	
CSC 3150 Systems Design	5
CSC 3220 Applications Programming	3
CSC 3221 Netcentric Computing	3
CSC 3310 Concepts in Programming Languages	3
CSC 3750 Computer Architecture/Organization	5
CSC 3430 Algorithm Design & Analysis	3
<b>Subtotal</b>	<b>22</b>
<b>Total</b>	<b>90</b>

\* CSC 2430 is substituted for CSC 2230.

\*\* While these lower-division credits in computer science 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.