

Bachelor of Science Degree (BS) in Mathematics Emphasis in Computer Science

Group R Required Courses.....

_____ M415 - An Introduction to Advanced Math	3 hrs
_____ M511 - Linear Algebra	3 hrs
_____ M547 - Advanced Calculus I	3 hrs
_____ M551 - Numerical Methods	3 hrs
_____ M555 - Differential Equations I	3 hrs

Note:

For students who are contemplating graduate work it is highly recommended that they include Math 513 and 640 in their program, along with courses in one or more of French, German, or Russian.

Plus the Following Four Courses:

_____ M321 - Discrete Structures I	3 hrs
_____ M322 - Discrete Structures II	3 hrs
_____ M451 - Computational Mathematics using MATLAB	3 hrs
_____ CS400 - Data Structures and Algorithms I	3 hrs

Plus select an additional higher-level programming language course.

Plus Four Additional Courses from the following [at least 3 of the four additional courses must be in computer science (CS)]:

_____ M553 - Mathematical Models	3 hrs
_____ M657 - Optimization Theory	3 hrs
_____ M690 - Introduction to Mathematical Logic	3 hrs
_____ M751 - Numerical Linear Algebra	3 hrs
_____ S774 - Statistical Computing I	3 hrs
_____ CS194 - Intro to Digital Design	4 hrs
_____ CS238 - Assembly Language Programming	3 hrs
_____ CS410 - Programming Paradigms	3 hrs
_____ CS510 - Programming Language Concepts	3 hrs
_____ CS540 - Operating Systems	3 hrs
_____ CS560 - Data Structures and Algorithms II	3 hrs

Minimum G.P.A. for this degree is 2