

Program: BA Joint Major in Mathematics and Computer Science

1. Learning Objectives and Evaluation:

Students graduating with a major in Mathematics, Pure and Applied Track are expected to:

1. Demonstrate a mature understanding of single and multivariable Calculus up through differential equations and of linear algebra.
2. Demonstrate a clear understanding of the concept of mathematical proof and be able to present a rigorous proof of basic theorems.
3. Attain a level of mathematical ability allowing the student to formally abstract and analyze computational processes.
4. Understand and evaluate the organization, design, and construction of hardware and software systems for computing.
5. Analyze problems that require computation to answer, and design and implement appropriate problem solutions that are efficient and effective.
6. Demonstrate a facility to use the techniques of Mathematics and of Computer Science to address problems from both fields.