

Mathematical Sciences BS at a Glance



Program Overview:

The (B.S.) degree in Mathematical Sciences provides students with the opportunity to develop their analytical thinking, quantitative reasoning, and problem-solving skills. This offers students the depth and rigor required for graduate studies in Mathematics or related fields and also offers a broad background appropriate for students planning to pursue a job in a variety of careers in business, astronomy and space exploration, climate study, medicine, national security, robotics and animated films.

Lower Division Preparation:

MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Multivariable Calculus
MAP 2302 Differential Equations
MAS 3105 Linear Algebra
One of the following COP courses:
COP 2210 Introduction to Programming OR
COP 2250 Java Programming OR
COP 2270 C for Engineers

**1 of the following science lecture & lab courses:*
BSC 2010 & 2010L General Biology I & Lab
BSC 2011 & 2011L General Biology II Lab
CHM 1045 & 1045L General Chemistry I & Lab
CHM 1046 & 1046L General Chemistry II & Lab
PHY 2048 & 2048L Physics with Calculus I & Lab
PHY 2049 & 2049L Physics with Calculus II & Lab

* certain tracks require may require more

Choose one of the following Major Tracks:

Major in Mathematics – Comprehensive Track
Major in Mathematics – Applied Mathematics Track
Major in Mathematics – Biology Track
Major in Mathematics – Business Track

Major in Mathematics – Chemistry Track
Major in Mathematics – Computer Science Track
Major in Mathematics – Economics Track
Major in Mathematics – Physics Track
Major in Mathematics-Statistics Track

Careers/Job Opportunities:

- Actuarial Work
- Statisticians
- Computer Programming
- Mathematics Teachers, Postsecondary
- Cost Estimators
- Compensation, Benefits, and Job Analysis Specialists
- Insurance Underwriters
- Operations Research Analysts
- Mathematical Technicians

All students must select one of the below tracks

- Comprehensive
- Applied Math
- Business
- Physics
- Economics
- Biology
- Chemistry
- Statistics

Recommended Minors, Certificates, or Second Majors:

- Statistics
- Actuarial Sciences

Advising Contact Information:

Manuel Muñoz-Repiso & Israel Salazar
Academic Advisors
MMC: ZEB 210 | 305-348-2978

Helpful Links:

Department Website: <http://mathstat.fiu.edu>

CAS Advising Website: <http://caseadvising.fiu.edu>

MyMajor Website: <http://mymajor.fiu.edu>

College Requirements:

- *All majors in the college must complete 45 credits of upper division prior to graduation. Upper division courses are 3000/4000 level courses, major courses and outside electives can count towards this requirement.*
- *No 1 and 2-credit physical activity courses can be counted towards the 120 credits needed for graduation.*