Mathematical Sciences: Mathematics

2023-2024 Miami Dade College Transfer Guide

Miami Dade College | *College of Arts, Sciences & Education* | FIU Connect4Success

Degree

Bachelor of Science in Mathematical Sciences: Mathematics Major
Course Catalog
Majors: Mathematics, Mathematical Data Science, Statistics.

Admission Requirements

- Completion of Associate in Arts (AA) degree
- Completion of all prerequisites with grade of C or higher
- Cumulative Transfer GPA: 2.0 or higher

Special Notes

- We strongly encourage students to complete math and science courses **every term** to make satisfactory progress toward completing all prerequisites and AA degree prior to transfer.
- The selection of science+lab depends on the track (refer to catalog link). The tracks below require discipline-specific sciences.
  - Biology: BSC1010/L+BSC1011/L
  - Chemistry: CHM1045/L+CHM1046/L+CHM 2210 (no lab) and PHY2048/L+PHY2049/L
  - Physics: PHY2048/L+PHY2049/L
- Business and Economics tracks require: ECO2013+ECO2023
- The additional lower (and upper) division courses below are required for this program. We encourage students to take these courses (as electives) prior to completing the AA.

PREREQUISITES

MDC Course	FIU Course
MAC 2311 Calculus and Analytical Geometry 1	MAC 2311
MAC 2312 Calculus and Analytical Geometry 2	MAC 2312
MAC 2313 Calculus and Analytical Geometry 3	MAC 2313
MAP 2302 Introduction to Differential Equations	MAP 2302
COP 2800 Java Programming	COP 2210

Complete one of the following science courses with lab. See Special Notes above.

BSC 2010 + BSC 2010L Principles of Biology 1 + Lab	BSC 2010 + Lab
OR	
BSC 2011 + BSC 2011L Principles of Biology 2 + Lab	BSC 2011 + Lab
OR	
CHM 1045 + CHM 1045L General Chemistry & Qualitative Analysis 1 + Lab	CHM 1045 + Lab
OR	
CHM 1046 + CHM 1046L General Chemistry & Qualitative Analysis 2 + Lab	CHM 1046 + Lab
OR	
PHY 2048 + PHY 2048L Physics with Calculus 1 + Lab	PHY 2048 + Lab
OR	
PHY 2049 + PHY 2049L Physics with Calculus 2 + Lab	PHY 2049 + Lab
OR	
GLY 1010 + GLY 1010L Physical Geology + Lab	GLY 1010 + Lab

Complete the following courses if pursuing the Business or Economics track. See Special Notes above.

ECO 2013 Principles of Economics (Macro) AND ECO 2023 Principles of Economics (Micro)	ECO 2013 + ECO 2023

ADDITIONAL LOWER/UPPER DIVISION COURSES

MAD 2104 Discrete Math	MAD 2104
MAS 3105 Linear Algebra	MAS 3105