

Mathematical Sciences: Mathematics

2024-2025 Miami Dade College Transfer Guide



College of Arts, Sciences & Education



Degree

[Bachelor of Science in Mathematical Sciences: Mathematics Major Course Catalog](#)

Majors: Mathematics, Mathematical Data Science, Statistics.

Admission Requirements

- Complete Associate in Arts (AA) degree
- Complete 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:** BSC2010/L+2011/L; **Chemistry:** CHM1045/L+1046/L, CHM 2210 (no lab), PHY2048/L+2049/L; **Physics:** PHY2048/L+2049/L
- **Business** track and **Economics** track require: ECO2013+2023
- Courses for the **Applied Math** track, **Comprehensive** track, and **Computer Science** track are taken at FIU after transfer.
- 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 OR	BSC 2010 + BSC 2010L
BSC 2011 + BSC 2011L Principles of Biology 2 + Lab OR	BSC 2011 + BSC 2011L
CHM 1045 + CHM 1045L General Chemistry & Qualitative Analysis 1 + Lab OR	CHM 1045 + CHM 1045L
CHM 1046 + CHM 1046L General Chemistry & Qualitative Analysis 2 + Lab OR	CHM 1046 + CHM 1046L
PHY 2048 + PHY 2048L Physics with Calculus 1 + Lab OR	PHY 2048 + PHY 2048L
PHY 2049 + PHY 2049L Physics with Calculus 2 + Lab OR	PHY 2049 + PHY 2049L
GLY 1010 + GLY 1010L Physical Geology + Lab	GLY 1010 + GLY 1010L

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
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ADDITIONAL LOWER/UPPER DIVISION COURSES

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