



Genesee Community College-Medaille College Cooperative Degree Program Curriculum Guide

LAS: Math and Science (A.S.)

This transfer guide outlines by category each of the curricular requirements necessary to earn a bachelor’s degree in **Biology or Mathematics** at Medaille College. Students who complete all the required courses in Genesee Community College’s **Liberal Arts and Sciences: Math and Science** program (A.S.) and who use their program electives as advised in this document can earn their B.S. at Medaille in no more than 63 credits, with the exception of biology.

Note: The biology degree at Medaille requires completion of **128** credits. The mathematics degree requires **122** credits.

Biology (B.S.)

General Education Requirements: (24)

Credits completed at GCC: 15

Medaille Courses

GEN 110 Intro. to Critical Thought and Expression (3)
GEN 220 Global Perspective on Colonial North Am (3)
ENG 110 College Writing II (3)
ENG 200 Analytical Writing (3)
MAT 115 Pre-Calculus (3)
SPE 130 Fundamentals of Public Speaking (3)

GCC Courses

waived
HIS 203 U.S. History I (3)*
ENG 101 English Comm 1 (3)
ENG 102 English Comm 2 (3)
MAT 141 Calculus I (4)
SPE 108 Public Speaking (3)**

*Use American History elective

** Use the general elective to select SPE 108

Credits to be completed at Medaille: 9

GEN 230 Creative Expression (3)
GEN 410 Baccalaureate Capstone I (3)
GEN 411 Baccalaureate Capstone II (3)

Major Requirements (40 credits)

Credits completed at GCC: 12

Transferable GCC courses:

BIO 152 Anatomy and Physiology 1 (4) * See note below.

BIO 153 Anatomy and Physiology 2 (4) *

BIO 201 Microbiology and Human Disease (4) *

*Use Chemistry Concentration electives.

Note: BIO 152-153 transfer roughly as the equivalent to Medaille's BIO 170-171 comparative animal and human anatomy sequence. Transfer students will have to complete a three-credit independent study in zoology at Medaille .

Credits to be completed at Medaille: 29

- BIO 120 Botany (4)
- BIO 220 Cell Biology (3)
- BIO 301 Epidemiology and Biostatistics (3)
- BIO 320 Ecology (4)
- BIO 330 Genetics (3)
- 300/400 Biology elective (9)
- Zoology independent study (3)

Arts and Sciences/CIS Requirements: (25)

Credits completed at GCC: 16

Transferable GCC courses:

- CHE 101 General Chemistry 1 (4)* CHE 102 General Chemistry 2 (4)*
- CHE 201 Organic Chemistry 1(4)* CHE 202 Organic Chemistry 2 (4)*

* Use Chemistry concentration distribution requirements.

Credits completed at Medaille: 9

- CIS 115 or above (3) PHI 300 Ethics (3) LAS elective (3) [substitute for GEN 110]

GCC Courses/Credits Transferring as General Electives

The following courses transfer for general elective credit: the Western and World Civilization electives (6), the Social Science elective (3), and 6 Chemistry concentration elective credits, the Health/PE/REC elective (2), one credit of MAT 141 and MAT 142 (4)

SUMMARY OF CREDITS: Biology

<u>Category</u>	<u>Credits Transferred</u>	<u>Credits at Medaille</u>
General Education	15	9
Biology	12	29
Arts and Sciences	16	9
General electives	22	20
	<hr style="width: 20%; margin: 0 auto;"/> 65	<hr style="width: 20%; margin: 0 auto;"/> 67

Mathematics (B.S.)

General Education Requirements: (30)

Credits completed at GCC: 21

Medaille Courses

GEN 110 Intro. to Critical Thought and Expression (3)
GEN 220 Global Perspective on Colonial North Am (3)
GEN 230 Creative Expression (3)
GEN 240 Scientific Discovery (3)
ENG 110 College Writing II (3)
ENG 200 Analytical Writing (3)
MAT 251 Calculus I (3)
SPE 130 Fundamentals of Public Speaking (3)

GCC Courses

waived
HIS 203 U.S. History I (3)*
Western Civilization Elective**
Science elective#
ENG 101 English Comm 1 (3)
ENG 102 English Comm 2 (3)
MAT 141 Calculus 1 (4)
SPE 108 Public Speaking (3)##

*Use American History elective

** ART 103, ART 104, THE 202, or THE 204

Use a General Math/Science Concentration elective to select any transferable course from the list of transferable courses for GEN 240.

** Use General Math/Science concentration elective to select SPE 108

Credits to be completed at Medaille: 9

MAT 381 Statistics and Probability (3)
GEN 410 Baccalaureate Capstone I (3)
GEN 411 Baccalaureate Capstone II (3)

Major Requirements (36 credits)

Credits completed at GCC: 12

Transferable GCC courses:

MAT 142 Calculus 2 (4)* MAT 245 Calculus 3 (4)
MAT 247 Discrete Math (3) MAT 255 Differential Equations (3)

*One credit each from MAT 142 and 245 counts as free elective credit.

Note: Use General Math/Science concentration electives to take these four courses.

Credits to be completed at Medaille: 24

MAT 242 Linear Algebra MAT 255 Theory of Numbers (3)
MAT 342 Abstract Algebra (3) MAT 382 Statistics and Probability II (3)
MAT 421 Real Variables (3) MAT 442 Complex Analysis (3)
MAT 450 Topology (3) Math elective (3)

Science Electives (8)

Completed at GCC by taking PHY 131 and 132.

Arts and Sciences/CIS Requirements: (15)

Credits completed at GCC: (9)

Transferable GCC courses:

World Civilization elective (3)

Social Science elective (3)

Foreign Language requirement (3)

Credits completed at Medaille: 6

GCC Courses/Credits Transferring as General Electives

The following courses transfer for general elective credit: the Health/PE/REC course (2), three credits of MAT 141, MAT 142, and MAT 245, and eight credits of additional elective courses in math or science concentration requirement.

SUMMARY OF CREDITS: Mathematics

<u>Category</u>	<u>Credits Transferred</u>	<u>Credits at Medaille</u>
General Education	21	9
Mathematics	12	24
Science Electives	8	0
Arts and Sciences	9	6
General electives	15	18
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