

Biochemistry & Molecular Biology Major

Bachelor of Science

As of fall 2021

Major Requirements: 70 semester hours. **At least 36 semester hours must be taken at Aquinas.** All majors must attend at least 8 seminars sponsored by the Natural Science and/or Math Departments. BMB majors may not declare additional majors/minors in Biology or Chemistry. A GPA of 2.0 must be maintained with no more than one C-. A minimum of a C is required in BY 170 & BY 171.

AQUINAS REQUIREMENTS

_____	BY 170 Introduction to Organisms	4.0
_____	BY 171 Introduction to Cells	4.0
_____	BY 326 Cell Biology	4.0
_____	BY 328 Genetics (WI)	5.0
_____	CS 152 Spreadsheets (prerequisite for CY 112)	1.0
_____	CY 111 General Chemistry I	4.0
_____	CY 112 General Chemistry II	4.0
_____	CY 211 Organic Chemistry I	4.0
_____	CY 212 Organic Chemistry II	4.0
_____	CY 215 Quantitative Analysis	4.0
_____	CY 314 Physical Chemistry for the Life Sciences	3.0
_____	CY 325 Biochemistry	4.0
_____	CY 400 Undergrad Seminar / Research (SC)	1.0
_____	CY 401 Undergrad Seminar / Research (SC)	2.0
_____	BMB 305 Advanced Biochemistry and Molecular Bi	3.0
_____	BMB 315 Molecular Techniques	3.0
_____	PC 213 Mechanics, Sound, and Heat	4.0
_____	PC 214 Electricity, Magnetism and Light	4.0
_____	MS 121 Calculus I	4.0
		66.0

TRANSFER EQUIVALENTS

<u>BIOL128 ORGANISMAL BIOLOGY</u>
<u>BIOL127 CELL BIOLOGY</u>
<u>BIOL270 HUMAN GENETICS & BIOL275 MOLECULAR</u>
<u>CITA126 MICROSOFT EXCEL</u>
<u>CHEM151 GENERAL CHEMISTRY LECTURE I &</u>
<u>CHEM161 GENERAL CHEMISTRY LAB I</u>
<u>CHEM152 GENERAL CHEMISTRY LECTURE II &</u>
<u>CHEM162 GENERAL CHEMISTRY LAB II</u>
<u>CHEM251 ORGANIC CHEMISTRY LECTURE I &</u>
<u>CHEM272 ORGANIC CHEMISTRY LABORATORY</u>
<u>CHEM252 ORGANIC CHEMISTRY LECTURE II</u>
<u>CHEM262 QUANTITATIVE ANALYSIS</u>
<u>PHYS251 PHYSICS I WITH CALCULUS</u>
<u>MATH151 CALCULUS I or MATH161 HONORS CALCU</u>

Elective Courses: At least 4 semester hours chosen from these courses are required.

_____	BY 350 Evolution	4.0
_____	BY 361 Immunology	4.0
_____	BY 372 Physiology	4.0
_____	CY 346 Instrumental Methods of Analysis	4.0

Recommended Courses:

_____	MS 122 Calculus II	4.0
_____	MS 231 Multivariate Calculus	4.0
_____	MS 252 Statistics	3.0

<u>MATH152 CALCULUS II</u>
<u>MATH253 CALCULUS III</u>

Please Note: Aquinas College reserves the right to change, modify or amend the above-stated requirements and/or courses in its sole discretion and without prior notice.

BIOLOGY I

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