

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 major seminars sponsored by the Natural Science and/or Math Departments. BMB majors may not declare additional Biology or Chemistry. A GPA of 2.0 must be maintained with no more than one C-. A minimum of a C is required for 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 Biology	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>BIOL 104 INTRODUCTORY BIC</u>
<u>BIOL 103 INTRODUCTORY BIC</u>

<u>CIS 101 or CIS 102 SPREADSH</u>
<u>CHEM 101 LEC General and In</u>
<u>CHEM 102 LEC General and In</u>
<u>CHEM 201 Organic Chem</u>
<u>CHEM 202 Organic Chem</u>

<u>MATH 161 Calculus I</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>MATH 162 Calculus II</u>
<u>MATH 283 Calculus III</u>

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

College

Students must attend at least
two additional majors/minors in
required in BY 170 & BY

BIOLOGY II

BIOLOGY

PHYSICS

Organic Chemistry

Organic Chemistry

Chemistry Lecture

Chemistry Lecture

and/or courses