

**Grand Rapids Community College - Aquinas College
Articulation Agreement**

CHEMISTRY MAJOR FOR SECONDARY EDUCATION

As of Fall 2021

Major Requirements: 59 semester hours. This major must be combined with the Secondary Professional Preparation courses required for teacher certification. At least 20 semester hours must be taken at Aquinas. All majors must attend at least 10 seminars sponsored by the Department of Chemistry. Only courses with a grade of C or better will count toward the major.

AQUINAS REQUIREMENTS

_____	CY 111 General Chemistry I	4.0
_____	CY 112 General Chemistry II	4.0
_____	CY 211 Organic Chemistry	4.0
_____	CY 212 Organic Chemistry	4.0
_____	CY 215 Quantitative Analysis	4.0
_____	CY 311 Physical Chemistry I	4.0
_____	CY 312 Physical Chemistry II	4.0
_____	CY 315 Advanced Organic Chemistry OR CY 336 Advanced Inorganic Chemistry	4.0
_____	CY 346 Instrumental Methods of Analysis	4.0
_____	CY 400 Undergraduate Seminar/Research	1.0
_____	CY 401 Undergraduate Seminar/Research	2.0
_____	CS 152 Spreadsheets (must be taken before CY112)	1.0
_____	MS 121 Calculus I	4.0
_____	MS 122 Calculus II	4.0
_____	MS 252 Statistics	3.0
_____	PC 213 Mechanics, Sound, Heat w/calc	4.0
_____	PC 214 Electricity, Mag, Light w/calc	4.0

TRANSFER EQUIVALENTS

_____	<u>CHM 130 & 131 (combined) Gen Chem</u>
_____	<u>CHM 140 & 141 (combined) Gen Chem</u>
_____	<u>CHM 260 & 261 (combined) Organic Ch</u>
_____	<u>CHM 270 & 271 (combined) Organic Ch</u>
_____	<u>CHM 280 Quantitive Chemical Analysis</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	<u>CIS 156 Excel</u>
_____	_____
_____	<u>MA 133 Calculus with Analytic Geometr</u>
_____	<u>MA 134 Calculus with Analytic Geometr</u>
_____	<u>MA 215 Statistics</u>
_____	_____
_____	<u>PH 245 Calculus Physics 1</u>
_____	<u>PH 246 Calculus Physics 2</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.

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