

**Grand Rapids Community College  
Articulation Agreement**

## **INTEGRATED SCIENCE MAJOR - SECONDARY EDUCATION**

Bachelor of Science - Teacher Certification  
As of Fall 2021

Major Requirements: 56 semester hours. **At least 18 semester hours must be taken at Aquinas.** the Secondary Professional Preparation courses required for teacher certification. Only courses with will count toward the major.

### **AQUINAS REQUIREMENTS**

<b>AQUINAS REQUIREMENTS</b>		<b>TRANSFER EQUIVALE</b>
_____ BY 170 Introduction to Organisms	4.0	_____ <u>BI 153 AND BI</u>
_____ BY 171 Introduction to Cells	4.0	_____ <u>BI 151 Intro to</u>
_____ BY 270 or CY 270 Secondary Science Practicum	3.0	_____ _____
_____ BY 352 Ecology	3.0	_____ <u>BI 215</u>
_____ BY 372 Physiology	4.0	_____ _____
_____ CS 152 Spreadsheets	1.0	_____ <u>CIS 156</u>
_____ CY 111 General Inorganic Chemistry	4.0	_____ <u>CHM 130 &amp; 13</u>
_____ CY 112 General Inorganic Chemistry	4.0	_____ <u>CHM 140 &amp; 14</u>
_____ CY 211 General Organic Chemistry	4.0	_____ <u>CHM 260 &amp; 26</u>
_____ CY 212 General Organic Chemistry	4.0	_____ <u>CHM 270 &amp; 27</u>
_____ EN 275 Science in the Classroom	3.0	_____ _____
_____ GY 101 Earth Environments	4.0	_____ <u>GE 132</u>
_____ MS 151 Elementary Statistics	3.0	_____ <u>BA 254 or MA</u>
_____ PC 201 Mechanics, Sound and Heat OR PC 213 Mechanics, Sound, Heat w/calc	4.0	_____ <u>PH 125 Colleg</u>
_____ PC 202 Electricity, Magnetism & Light OR PC 214 Electricity, Mag, Light w/calc	4.0	_____ <u>PH 126 Colleg</u>
_____ PC 295 Observational Astronomy	4.0	_____ <u>AS 102 INTRC</u> <u>103 DESCRIP</u>

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

**ge - Aquinas College**

This major must be combined with  
a grade of C or better

**REQUIREMENTS**

154 Plant/Animal Biology  
Cells, Molecules, Genes

General Ecology

Microsoft Excel

1 (combined) Gen Chem 1 & Lab

1 (combined) Gen Chem 2 & Lab

1 (combined) Organic Chem 1 & Lab

1 (combined) Organic Chem 2 & Lab

Physical Geography

215 Statistics

PH 245 Calculus Physics 1

PH 246 Calculus Physics 2

PH 245 INTRODUCTORY ASTRONOMY OR AS  
PH 246 ADVANCED ASTRONOMY

Requirements and/or courses