| Year One |  |  |  |
| :---: | :---: | :---: | :---: |
| BIO 120 General Biology I w/lab <br> Prerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently) <br> GEO 111 Exploring the Earth <br> MTH $122^{1}$ College Algebra <br> Prerequisite: MTH 110 or assignment through Grand Valley math placement <br> PSY 101 Introductory Psychology (SBS) | $4$ <br> 4 <br> 3 <br> 3 | BIO 121 General Biology II w/lab <br> Prerequisite: MTH 110 (may be taken concurrently) <br> MTH 123 ${ }^{1}$ Trigonometry <br> Prerequisite: MTH 122 or assignment through Grand Valley math placement (MTH 122 may be taken concurrently) <br> GEO 112 Earth History <br> Prerequisite: GEO 111 (preferred) or GEO 100 or GEO 103, Or GEO 105 <br> WRT 150 Strategies in Writing | $4$ <br> 3 <br> 4 <br> 4 |
| Total | 14 | Total | 15 |
| Year Two |  |  |  |
| BIO 215 Ecology w/lab (summer and fall only) <br> Prerequisites: BIO 120 and BIO 121 (BIO 120 may be taken concurrently) <br> CHM 115 Principles of Chemistry I w/lab Prerequisites: High school chemistry and (MTH 110 or MTH 122 or MTH 125 or MTH 201) <br> MTH 201 Calculus I <br> Prerequisites: MTH 122 and MTH 123, or MTH 124 or assignment through Grand Valley math placement <br> EDF 315 Diverse Perspectives on Education (US Div.) | 4 <br> 4 <br> 4 <br> 3 | CHM 116 Principles of Chemistry II w/lab <br> Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH 201) <br> BIO 210 Evolutionary Biology <br> Prerequisites: BIO 120 and BIO 121 <br> MTH 202 Calculus II <br> Prerequisite: MTH 201 <br> PSY 301 Child Development <br> Prerequisite: PSY 101 | $5$ <br> 3 <br> 4 <br> 3 |
| Total | 15 | Total | 15 |
| Spring/Summer |  |  |  |
| Gen Ed (P\&L) <br> Gen Ed (HP) <br> Gen Ed (SBS) | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |  |
| Total | 9 |  |  |
| Year Three |  |  |  |
| PHY 230 Principles of Physics I <br> Prerequisite: MTH 201 (MTH 202 is recommended as a Corequisite) <br> CHM 231 Introductory Organic Chemistry <br> Prerequisite: CHM 109 or CHM 116 <br> GEO 203 Weather and Climate for Pre-Service Teachers Gen Ed (MUS 218 World Music***) | 5 <br> 4 <br> 3 3 | PHY 231 Principles of Physics II <br> Prerequisite: PHY 230 and MTH 202 <br> CHM 221 Survey of Analytical Chemistry <br> Prerequisites: CHM 116 or one full year of general chemistry <br> BIO 375 Genetics <br> Prerequisite: BIO 120 Corequisite: BIO 376 <br> BIO 376 Genetics Laboratory <br> Prerequisites: Concurrent enrollment in BIO 375 or successful completion of BIO 355 <br> Issues | 5 <br> 4 <br> 3 <br> 1 <br> 3 |
| Total | 15 | Total | 16** |
| Year Four |  |  |  |
| SCI 440 Physics and Chemistry in Secondary Education Prerequisites: Junior Standing, CHM 116 and PHY 221 or PHY 231 <br> CHM 351 Introduction to Physical Chemistry <br> Prerequisites: CHM 116, MTH 201, and PHY 220 or PHY 230 (may be taken concurrently <br> GEO 214 Solid Earth Materials and Systems <br> Prerequisites: GEO 111, CHM 115, GEO 112, and GEO 175) <br> PHY 105 Descriptive Astronomy <br> EDI 339 Assessment in Secondary Schools | 3 <br> 3 <br> 4 <br> 3 3 | SCI 450 Earth and Life Science in Secondary Education Prerequisite: Junior Standing, BIO 120 and BIO 121, or GEO 111 and Geo 112 <br> PHY 302 Introduction to Modern Physics <br> Prerequisite: PHY 231 <br> GEO 220 Earth Surface Materials and Systems Prerequisites: GEO 111, CHM 115, GEO 112, and GEO 175 Issues (SWS***) ${ }^{\mathbf{2}}$ | 3 <br> 4 <br> 4 <br> 3 |
| Total | 16** | Total | 14 |


| Year Five ${ }^{3}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Teacher Assisting |  | Student Teaching |  |
| EDI 331 Methods and Strategies of Secondary Teaching | 5 | EDS 379 Universal Design for Learning: Secondary | 3 |
| EDI 310 Organizing and Managing Classroom | 3 | Sophomore Standing, EDF 315, and EDI 337. B- or better required. |  |
| Environments |  | EDI 431 Student Teaching: Secondary | 8 |
| EDR 321 Content Area Literacy (SWS) | $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | EDI 432 Student Teaching: Secondary Content | 2 |
| EDT 370 Technology in Education <br> Must be taken with or after EDI 331 but before EDI 431 | 3 | EDF 485 The Context of Educational Issues Must be taken with or after EDI 431 | 3 |
| Total | 14 | Total | 16** |

**The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15
*** This course is recommended to help complete program in timely basis but is not a necessary program requirement.
${ }^{1}$ Students in MTH 122 are encouraged to take the Math Proficiency Tests for MTH 122 and/or 123 online: www.gvsu.edu/s/mv
${ }^{2}$ Students must complete a total of two courses with an SWS attribute.
${ }^{3}$ Admission into the College of Education is a secondary application process. Plan to apply to the College of Education the semester before the semester you plan on starting teacher assisting.

| General Education Categories fulfilled by the Biology major: |  |
| :--- | :--- |
| Life Science and Physical Science: BIO 120 and CHM 115 (both fulfill lab requirement), PHY 230 |  |
| Mathematical Sciences: MTH 122, MTH 123, MTH 124, MTH 201 |  |
| Social and Behavioral Sciences: PSY 101 | US Diversity: EDF 315 |

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly. The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585 http://www.gvsu.edu/clasadvising

Your Academic Advisor in the CLAS Advising Center is Emily Davis, davisem1@gvsu.edu.
To schedule an appointment with an Integrated Science adviser in the CLAS Academic Advising Center, visit www.gvsu.edu/clasadvising and click on "Schedule Appointment"

