College of Liberal Arts and Sciences (CLAS) Academic Advising Center 2018-2019

Integrated Science-BS-Secondary Education(With Education Major)

This is a **general** curriculum guide and is not applicable to every student. It is important to meet with your advisor.

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| **Year One** |
| **BIO 121**  General Biology II w/labPrerequisite: MTH 110 (may be taken concurrently)**CHM 115** Principles of Chemistry I w/labPrerequisites: High school chemistry and (MTH 110 or MTH 122 or MTH 125 or MTH 201) **MTH 1221** College AlgebraPrerequisite: MTH 110 or assignment through Grand Valley math placement **WRT 150** Strategies in Writing | 4434 | **BIO 120** General Biology I w/labPrerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently) **MTH 1231** TrigonometryPrerequisite: MTH 122 or assignment through Grand Valley math placement (MTH 122 may be taken concurrently)**CHM 116** Principles of Chemistry II w/labPrerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH 201) **PSY 101** Introductory Psychology (SBS) | 4353 |
| *Total* | *15* | *Total* | *15* |
| **Year Two** |
| **GEO 111**  Exploring the Earth**BIO 215** Ecology w/lab *(summer and fall only)*Prerequisites: BIO 120 and BIO 121 (BIO 120 may be taken concurrently)**MTH 201** Calculus I Prerequisites: MTH 122 and MTH 123, or MTH 124 or  assignment through Grand Valley math placement**EDF 315** Diverse Perspectives on Education (US Div.) | 4443 | **GEO 112** Earth History Prerequisite: GEO 111 (preferred) or GEO 100 or GEO 103, or GEO 105**BIO 210** Evolutionary BiologyPrerequisites: BIO 120 and BIO 121**MTH 202** Calculus II Prerequisite: MTH 201**PSY 301** Child Development Prerequisite: PSY 101 | 4343 |
| *Total* | *15* | *Total* | *14* |
| **Spring/Summer** |
| **Gen Ed** **Gen Ed** **Gen Ed**  | *3**3**3* |  |  |
| *Total* | *9* |  |  |
| **Year Three** |
| **PHY 230** Principles of Physics I Prerequisite: MTH 201 (MTH 202 is recommended as a  Corequisite)**CHM 231** Introductory Organic Chemistry Prerequisite: CHM 109 or CHM 116**GEO 203** Weather and Climate for Pre-Service Teachers**Gen Ed** | 5433 | **PHY 231** Principles of Physics II Prerequisite: PHY 230 and MTH 202**CHM 221** Survey of Analytical Chemistry Prerequisites: CHM 116 or one full year of general chemistry**BIO 375** Genetics Prerequisite: BIO 120 Corequisite: BIO 376**BIO 376** Genetics Laboratory Prerequisites: Concurrent enrollment in BIO 375 or  successful completion of BIO 355**Issues** | 54313 |
| *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**CHM 351** Introduction to Physical Chemistry Prerequisites: CHM 116, MTH 201, and PHY 220 or PHY 230 (may be taken concurrently**GEO 214** Solid Earth Materials and Systems  Prerequisites: GEO 111, CHM 115, GEO 112, and GEO 175)**PHY 105** Descriptive Astronomy**EDI 337** Introduction to Learning and Assessment | 33433 | **SCI 450** Earth and Life Science in Secondary Education Prerequisite: Junior Standing, BIO 120 and BIO 121, or GEO 111 and Geo 112**PHY 302** Introduction to Modern Physics Prerequisite: PHY 231**GEO 220** Earth Surface Materials and SystemsPrerequisites: GEO 111, CHM 115, GEO 112, and GEO 175 **Issues (SWS\*\*\*)2** | 3443 |
| *Total* | 16\*\* | *Total* | 14 |
| **Year Five3** |
| **Teacher Assisting** **EDI 331** Methods and Strategies of Secondary Teaching **EDI 310** Organizing and Managing Classroom Environments**EDR 321** Content Area Literacy (SWS)**EDT 370** Technology in Education Must be taken with or after EDI 331 but before EDI 431 | 5333 | **Student Teaching****EDS 379** Universal Design for Learning: Secondary Sophomore Standing, EDF 315, and EDI 337. B- or better required.**EDI 431** Student Teaching: Secondary**EDI 432** Student Teaching: Secondary Content**EDF 485** The Context of Educational IssuesMust be taken with or after EDI 431 | 3823 |
| *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***](http://www.gvsu.edu/s/mv)

2 Students must complete a total of two courses with an SWS attribute.

3Admission 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.

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| **General Education Categories fulfilled by the Integrated Science 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 |

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| **Second Major in Education** |
| **Education Major Prerequisites (9 credits)****A 2.7 cumulative GPA in the Education Major Prerequisites is required with no grade lower than a C** |
|  **EDF 315 Diverse Perspectives on Education** (3)  **PSY 301 Child Development** (3) **EDI 337 Introduction to Learning and Assessment** (3) Prerequisite: PSY 101 |
| **Teacher Assisting (14 - 17 credits)** | **Student Teaching (13 credits)** |
|  **EDI 331 Teacher Assisting-Secondary** (5) **EDI 310 Organizing and Managing Classroom Environments** (3) **EDR 321Content Area Literacy** (3) **EDT 370 Technology in Education** (3)Must be taken with or after EDI 331 but before EDI 431 **EDS 379 Universal Design for Learning: Secondary** (3)\*\*\*\* Starting Fall 2013, EDS 379 may be taken prior to the Teacher Assisting Semester. Please consult with your College of Education Advisor to determine an appropriate time to take this course. |  **EDI 431 Student Teaching, Secondary** (8) **EDI 432 Student Teaching, Secondary Content** (2) **EDF 485 The Context of Educational Issues** (3) Must be taken with or after EDI 431 |

**Guide for Declaring Majors**

1. Log into myBanner from the GVSU homepage
2. Once logged in select “Student”, “Student Records”, and then, “Change Major”
3. Click on the “Change Major 1/Program” box

Click on the down arrow in the box next to “New Major 1/Program,” from here scroll down and choose:

“Integrated ScienceBS**-**Secondary”

Click “Submit.” The system will automatically declare your 2nd major in “Education” and give you the option to declare a minor. \*\*\*\*\***Integrated Science-Secondary is a comprehensive major and a minor is not required.**

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| **Teachable Majors** | **Teachable Minors** |
| Biology MathematicsChemistry Music (K-12)Earth/Space Science Physical Education (K-12)English PhysicsFrench Social StudiesGerman SpanishHistory Visual Arts (K-12)Integrated ScienceLatin | Biology-Teaching History-TeachingChemistry-Teaching Mathematics-Secondary Education Computer Science-Teaching Physical Education-Teaching Earth/Space Science-Teaching Physics-TeachingEconomics-Teaching Political Science-TeachingEnglish-Teaching Psychology-Teaching French-Teaching School Health Education Geography-Teaching Spanish-Secondary Teaching German-Teaching Applied Linguistics – ESL**\*\*\*\*\*Integrated Science-Secondary is a comprehensive major and a minor is not required.**  |

**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**

To schedule an appointment with an Integrated Science adviser in the CLAS Academic Advising Center, visit [www.gvsu.edu/clasadvising](http://www.gvsu.edu/clasadvising) and click on “Schedule Appointment”