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.

	Year	One	
BIO 121 General Biology II w/lab	4	BIO 120 General Biology I w/lab	4
Prerequisite: MTH 110 (may be taken concurrently)			
CHM 115 Principles of Chemistry I w/lab	4	strongly recommended (CHM 109 or 115 may be taken	
Prerequisites: High school chemistry and (MTH 110 or MTH		concurrently)	
122 or MTH 125 or MTH 201)		CHM 116 Principles of Chemistry II w/lab	5
WRT 150 Strategies in Writing	4/3	Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH	
or WRT 120 in fall, WRT 130 in winter ¹		201)	
MTH 201 Calculus I		PSY 101 Introductory Psychology (SBS) or WRT 130 if	
		taking WRT 120 in the fall ¹	
Prerequisites: MTH 122 and MTH 123, or MTH 124 or		MTH 202 Calculus II	4
assignment through Grand Valley math placement		Prerequisite: MTH 201	
Total	15		16**
Total		Total Total	16
BIO 215 Ecology w/lab (summer and fall only)	4	GEO 112 Earth History	4
Prerequisites: BIO 120 and BIO 121 (BIO 120 may be taken	4	Prerequisite: GEO 111 (preferred) or GEO 100 or	_
concurrently)		*	
GEO 111 Exploring the Earth	_	GEO103, or GEO 105	3
	4	BIO 210 Evolutionary Biology	
EDF 315 Diverse Perspectives on Education (US Div.)	3	Prerequisites: BIO 120 and BIO 121	_
Gen Ed (PSY 101 if not yet taken)	3	PSY 301 Child Development	3
		Prerequisite: PSY 101	_
		Gen Ed	3
Total	14	Total	13
	Spring/:	Summer 	
Gen Ed	3		
Total	3		
	Year	Three	•
PHY 230 Principles of Physics I	5	PHY 231 Principles of Physics II	5
Prerequisite: MTH 201 (MTH 202 is recommended as a		Prerequisite: PHY 230 and MTH 202	
Corequisite)		CHM 221 Survey of Analytical Chemistry	4
CHM 231 Introductory Organic Chemistry	4	Prerequisites: CHM 116 or one full year of general chemistry	
Prerequisite: CHM 109 or CHM 116		BIO 375 Genetics	3
GEO 203 Weather and Climate for Pre-Service Teachers	3	Prerequisite: BIO 120 Corequisite: BIO 376	
Gen Ed	3	BIO 376 Genetics Laboratory	1
OCI 24		Prerequisites: Concurrent enrollment in BIO 375 or	
		successful completion of BIO 355	
		Issues	3
Total	15	Total	16*
Total	Year		10
SCI 440 Physics and Chemistry in Secondary Education	3	SCI 450 Earth and Life Science in Secondary Education	3
Prerequisites: Junior Standing, CHM 116 and PHY 221 or		Prerequisite: Junior Standing, BIO 120 and BIO 121, or	
PHY 231		GEO 111 and Geo 112	
CHM 351 Introduction to Physical Chemistry	3	PHY 302 Introduction to Modern Physics	4
Prerequisites: CHM 116, MTH 201, and PHY 220 or PHY		Prerequisite: PHY 231	
230 (may be taken concurrently		GEO 220 Earth Surface Materials and Systems	4
GEO 214 Solid Earth Materials and Systems	4	Prerequisites: GEO 111, CHM 115, GEO 112, and GEO 175	-
Prerequisites: GEO 111, CHM 115, GEO 112, and GEO 175)		Issues (SWS) ³	3
PHY 105 Descriptive Astronomy	_	issues (3VV3)	,
EDI 339 Assessment in Secondary Schools	3		
Assessment in secondary schools	3		
Tabal	16**	Tabal	1.0
Total	16**	Total	14

Continued on back...

Year Five ³						
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	5 3 3 3	EDS 379 Universal Design for Learning: Secondary Sophomore Standing, EDF 315, and EDI 339. B- or better required. EDI 431 Student Teaching: Secondary EDI 432 Student Teaching: Secondary Content EDF 485 The Context of Educational Issues Must be taken with or after EDI 431	3 8 2 3			
Total	14	Total	16**			

^{**}The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15

⁴Admission 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 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			

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 339 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 431 Student Teaching, Secondary (8)			
— EDI 310 Organizing and Managing Classroom Environments (3)	— EDI 432 Student Teaching, Secondary Content (2)			
— EDR 321Content Area Literacy (3) — EDF 485 The Context of Educational Issues (3)				
— EDT 370 Technology in Education (3)	Must be taken with or after EDI 431			
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.				

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 Science BS-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.

Teachable Majors		Teachable Minors	
Biology	Mathematics	Biology-Teaching	History-Teaching
Chemistry	Music (K-12)	Chemistry-Teaching	Mathematics-Secondary Education
Earth/Space Science	Physical Education (K-12)	Earth/Space Science-Teaching	Physical Education-Teaching
English	Physics	Economics-Teaching	Physics-Teaching
French	Social Studies	English-Teaching	Political Science-Teaching
German	Spanish	French-Teaching	Psychology-Teaching
History	Visual Arts (K-12)	Geography-Teaching	School Health Education
Integrated Science	, ,	German-Teaching	Spanish-Secondary Teaching
Latin			Applied Linguistics – ESL
		*****Integrated Science-Secondary is a comprehensive major and a minor is not required.	

¹ Students who self-place into WRT120 should take this course in the fall semester and then take WRT 130 in the winter semester of the first year. Students who self-place into WRT 150 should take this course in either semester of the first year. A grade of C or higher is required to fulfill these requirements.

² Students in MTH 122 are encouraged to take the Math Proficiency Tests for MTH 122 and/or 123 online: www.gvsu.edu/s/mv

³ Students must complete a total of two courses with an SWS attribute.