INTEGRATED SCIENCE-BS (WITH EDUCATION MAJOR & ELEMENTARY CERTIFICATION MINOR)

THIS IS A GENERAL CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR

A 2.7 cumulative GPA in the Integrated Science major is requ		-	
	Year	One	
CHM 201 Introduction of Chemical Sciences <i>Gen Ed</i> BIO 120 General Biology I or BIO 121 General Biology II	4 4	BIO 120 General Biology I or BIO 121 General Biology II Prerequisites: BIO 120: High school chemistry, CHM 109, or CHM 115	4
Prerequisites: BIO 120: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently)		strongly recommended (CHM 109 or 115 may be taken concurrently) BIO 121: MTH 110 or higher (may be taken concurrently)	4
BIO 121: MTH 110 or higher (may be taken concurrently)	3/4	MTH 110 Algebra	3
Gen Ed or WRT 098 Writing with a Purpose – Optional ¹	2	PSY 101 Psychology Gen Ed	4
EDF 100 Introduction to Education (optional – see below)		¹ WRT 150 Strategies in Writing	
Total	13/14	Total	15
BIO 205 Genetics for K-8 Pre-Service Teachers	2	GEO 203 Weather for K-8 Pre-Service Teachers	3
Prerequisites: BIO 120, BIO 121, (MTH 110 or MTH 122 or MTH 201), CHM 109 or CHM 201 recommended		PHY 200 Physics for the Life Sciences (See below) Prerequisite: MTH 110 or MTH 122 or MTH 201	4
PHY 201 Inquiry: The Mechanical and Thermal World	4	MTH 222 Mathematics for Elementary Teachers II	3
MTH 221 Mathematics for Elementary Teachers I Gen Ed Prerequisites: MTH 110 or MTH 122 and sophomore standing	4	Prerequisites: MTH 110 or MTH 122 and sophomore standing; MTH 221 strongly suggested	
EDF 315 Diverse Perspectives on Education <i>Gen Ed</i>	3	PSY 301 Child Development	
EDF 515 Diverse r elspectives on Eddeation Gen Ed	3	Prerequisite: PSY 101	3
Total	13	Total	13
	Year	Three	
³ GEO 201 The Geosphere for K-8 Pre-Service Teachers	4	GEO 202 Hydrosphere for Teachers	4
PED 266 Move-Dance-Learn! PE & Dance for Elementary	2	SST 309 Social Students for Elementary Teachers	3
Education		Prerequisites: Junior standing or approval by instructor	
EDI 337 Introduction to Learning and Assessment	3	PED 265 Teaching Health in Elementary Schools	2
Gen Ed	3	PHY 205 Astronomy for K-8 Pre-Service Teachers	2
Gen Ed	3	Gen Ed	3
Total	15	Total	14
	Year	Four	
SCI 319 Science in Elementary Education Prerequisites: BIO 120, CHM 201 or CHM 109, PHY 200 or PHY 201,	2	SCI 495 Teaching Science in the 21 st Century (Capstone) Prerequisites: Senior standing and SCI 319	3
and GEO 201 ^{2,3} SCI 336 Ecology for K-8 Pre-Service Teachers SWS	4	ENG 308 Teaching Reading: The Necessary Skills Prerequisite: WRT 150 and Junior Standing	4
Prerequisites: BIO 205, CHM 201 or CHM 109, PHY 201, GEO 202, GEO 203 (GEO 201 recommended)		ENG 302 Introduction to Language Arts: Teaching Writing and Children's Literature	3
MAT 300 Music Art & Theater for Elementary Education	3	Prerequisites: WRT 150 and one of EDI 337 or PED 265 or PED 266	-
Issue	3	Issue	3
⁴ EDS 378 Universal Design for Learning: Elementary	3		
Sophomore Standing, EDF 315, and EDI 337. B- or better required			
Total	15	Total	13
	paration	Professional Program	
Teacher Assisting	_	Student Teaching	40
EDI 330 Teacher Assisting: Elementary	5	EDI 430 Student Teaching: Elementary	10
EDF 310 Organizing & Managing Classroom Environments	3	EDF 485 The Context of Educational Issues	3
EDR 320 Reading: Assessment and Instruction	3		
EDT 370 Technology in Education	3		
Must be taken with or after ED 330 but before ED 430		/	40
Total The block tuition rate is for 12-15 credits. You will nav additi	14	Total	13

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

EDF 100 is an exploratory elective for students uncertain about pursuing teacher certification. It can be taken in either the fall or winter semester. PHY 280 – Forces and Energy (2 credits, Fall semester) and PHY 280 – Electricity and Magnetism (2 credits, Winter semester) together can replace PHY 200 – Physics for the Life Sciences (4 credits) in the Integrated Science major.

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.

Academic Advisor: Nick Woodward, woodwani@gvsu.edu

The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.

Online at: http://www.gvsu.edu/clasadvising

¹ Students who self-place into WRT 098 should take this course in the fall semester and then take WRT 150 in the winter semester of their first year. Students who self-place into WRT 150 should normally take this course in the winter semester of their first year.

Students will not need to take WRT 150 if they have earned credit for the course through AP/Dual Enrollment. A grade of C or better is required in WRT 150 in order to satisfy the WRT 150 requirement at GVSU.

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

³ GEO 201 is only offered in the fall semester. SCI 336 is offered only the fall and spring/summer (1st six weeks) semesters.

⁴ EDS 378 may be taken prior to the Teacher Assisting Semester but must be completed prior to Student Teaching. Permit required (COE – 616-331-6650).

Elementary Certification Minor (22-24 credits)			
A 2.7 cumulative GPA in the Elementary Certification minor is required for admission to the College of Education			
	— MAT 300 Music, Art & Theatre for Elementary Education (3)		
Prerequisites: WRT 150 and Junior Status	— MTH 221 Mathematics for Elementary Teachers I (4)		
— PED 265 Teaching Health in Elementary Schools (2)	Prerequisites: MTH 110 or MTH 122 and at least sophomore standing		
— PED 266 Move-Dance-Learn! PE & Dance for Elementary Ed (2)	— MTH 222 Mathematics for Elementary Teachers II (3)		
— SST 309 Social Studies for Elementary Teachers (3)	Prerequisites: MTH 110 or MTH 122 and at least sophomore standing; MTH		
Prerequisites: Junior standing or permission of instructor	221 strongly recommended		
— ENG 302 Introduction to Language Arts: Teaching Writing &	May be completed in place of MTH 221 and MTH 222		
Children's Literature	— MTH 223 Mathematics for Elementary Teachers III (5)		
Prerequisite: WRT 150 and one of EDI 337 or PED 265 or PED 266	Prerequisite: MTH 201		

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 (17 credits)	Student Teaching (13 credits)		
— EDI 330 Teacher Assisting-Elementary (5)	— EDI 430 Student Teaching, Elementary (10)		
— EDF 310 Organizing and Managing Classroom Environments (3)	EDI 430 seminar is also required		
— EDR 320 Reading: Assessment and Instruction (3)	— EDF 485 The Context of Educational Issues (3)		
— EDT 370 Technology in Education (3)	Must be taken with or after EDI 430		
Must be taken with or after ED 330 but before ED 430			

Guide for Declaring the Elementary Education Majors and Minor

- 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
- 4. Click on the down arrow in the box next to "New Major 1/Program," from here scroll down and choose "Integrated Science-BS"
- 5. Click "Submit." The system will automatically declare your second major in "Education" and minor in "Elementary Certification." Click "Change to New Program."

General Education Overlap

General Education Categories fulfilled by the Integrated Science Major for Elementary Education:		
Physical Science with Lab: CHM 201 and PHY 201	Life Science with Lab: BIO 120	
Mathematical Sciences: MTH 221	U.S. Diversity: EDF 315	
Social and Behavioral Sciences: PSY 101		

Teaching Majors and Minors for Elementary Teacher Certification at GVSU

Elementary Certification Minors

Elementary Certification Majors – choose one Integrated Sciences Language Arts Mathematics Social Studies

Elementary Certification (required of all elementary certification students) Mathematics (may be added as a second minor)