

**Department of Middle and Secondary Education
Middle School
AREA OF CONCENTRATION: SCIENCE**

OPTION 1 22 hours 21 hours #	OPTION 3 33 hours
CH 181 Basic Principles of Chemistry (5) OR CH 185 General Chemistry I (5)	CH 185 General Chemistry I (5) CH 186 General Chemistry II (3)** CH 187 Qualitative Analysis (2)**
PH 120 Introductory Physics I (5) PH 106 Physical Concepts (3) #	PH 120 Introductory Physics I (5) PH 121 Introductory Physics II (5)**
GO 110 Physical Geology (3) or UI 318 Earth Science: A Process Approach (3) # GO 220 Meteorology (3) or GO 150 Earth Science: Environmental Hazard (3) #	GO 110 Physical Geology (3) GO 220 Meteorology (3) GO 320 Oceanography (3)
BS 108 Biology for Living (3) * OR BS 218 Biological Science: A Process Approach (3) And one of the following: BO 200 Botany (3) BS 105 Environmental Biology (3) BS 107 Investigations in Biology (3) ZO 200 Zoology (3)	BS 108 Biology for Living (3) OR BS 218 Biological Science: A Process Approach (3) BO 200 Botany (3) ZO 200 Zoology (3)
BS 118 Intro. Process Science for Elem. Teachers (1) #	

*Students who choose BS 108 must take BO 200, BS 107, or ZO 200. * **Students will take either CH 186 and CH 187 or PH 121.
Courses pertain to South cohort **ONLY!!!**