2015-2016 Pathways Major Plan

Geology (BS) – Biology Track

Department of Earth and Physical Science
School of Arts & Sciences
Academic Core 2F09 | 718-262-2654

The following is a **suggested** plan of study for completion of this degree program.
The goal of a Major Plan is to ensure that students who completed an Associate's Degree (AA or AS) graduate with no more than 120 credits and within a minimum of three years.

- All students should speak with an academic advisor about their academic programs.
  This document is not a substitute for academic advisement.
- Students are encouraged to take Winter and Summer courses to facilitate their progress towards graduation.
- Transfer students do not need to take all courses in the plan; they should consult with an academic advisor.
- This plan requires transfer credit for the following courses:
  - ENGL 125 (English Composition I); MATH 119 (College Algebra System) + MATH 120 (Pre-Calculus)†

  † If MATH 119 + MATH 120 are not transferred to York College, students should take MATH 119 + MATH 120 in the first semester.

	Credits		Credits
THIRD YEAR - FALL	**14**	**THIRD YEAR - SPRING**	**14**
MATH 121	4	CHEM 108 + CHEM 109	5
GEOL 140	3	GEOL 217	5
BIO 201	4	BIO 202	4
College Option: Writing Requirement	3		
FOURTH YEAR - FALL	**14**	**FOURTH YEAR - SPRING**	**12.5**
CHEM 111 + CHEM 112	5	GEOL 332	2
GEOL 225	5	GEOL 323	1.5
GEOL 211	4	GEOL Elective*	3
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FIFTH YEAR - FALL	**12**		
Writing Intensive (WI): GEOL 425 WI	4		
GEOL 334	4		
MATH 111	4		

- York students are required to complete (pass) three (3) Writing intensive (WI) courses: two (2) in the lower division (100-200 level) and one (1) in the upper division (300-level).
- If you transferred to York College with an Associate's Degree (AA or AS), or with credit for all General Education requirements, you are exempt from completing two (2) of your lower division (100-200 level) Writing Intensive (WI) courses. You must still complete one WI course in the upper division (300-level) within your major. If your major has no upper division WI course, you must take a WI course chosen in consultation with your major advisor.
- B.S. students must complete 60 credits of liberal arts – See Bulletin.
- Students are strongly encouraged to select a Minor program of study, in consultation with an academic advisor, especially those planning to attend graduate school. Minor courses would replace the "free electives" in the Two-Year Plan.

Notes on Geology – Biology Track Major Requirements

***Geology Electives**

Course	Title	Credit	Prerequisite
Geology Electives		**8**	
Choose 8 credits from the following electives:			
GEOL282	Weather and Climate	3	
GEOL308	Geomorphology	3	GEOL211
GEOL340	Remote Sensing and Air Photo Interpretation	2	GEOL110 or GEOL140 & MATH 101
GEOL341	Ground Water Hydrology	2	GEOL110 or GEOL140 & MATH121
GEOL342	Rock and Soil Mechanics	2	GEOL211 & Trigonometry
GEOL343	Ore Deposits and Ore Evaluation	2	GEOL225
GEOL344	Industrial Minerals and Fossil Fuels	2	GEOL225
GEOL346	Laboratory Techniques in Geology	2	GEOL110 or GEOL140 & GEOL225
GEOL349	Assessment of Environment Impact	1	GEOL110 or 140
GEOL403	Paleoecology	3	GEOL213 or perm. of instr.
GEOL411	Sedimentation	3	GEOL232
GEOL412	Stratigraphy	3	GEOL211 & 213 or perm. of instr.
GEOL441	Geochemistry	3	GEOL333
GEOL442	Geophysics	3	
EHS140	Environmental Management (Basic)	3	
EHS340	Pollution Control Technology	3	PHYS113, PHYS115 or PHYS117, EHS211, EHS212
EHS420	Water Quality Analysis & Management	4	EHS340
EHS426	Solid Waste Management	3	EHS211, EHS212, CHEM230; or Dept. Perm. Req.
EHS429	Environmental Management (Advanced)	3	EHS211 and EHS212; or Dept. Perm. Req.