



# ADVISING WORKSHEET: GENERAL SCIENCE

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## **GENERAL NOTES**

- A minimum of 123 credits are required for graduation.
- Credits earned for COM 100 and MAT 100 do not count toward the 123 credits required for graduation; however, COM 100 students may petition for elective credit.
- Where appropriate, courses required for the major can be used to satisfy General Education requirements. However, the credits earned for these courses are applied to either the Gen Ed requirements or the major, not both.
- Paths of Knowledge coursework may count towards major or minor requirements, but may not fulfill a second Mid-Level Liberal Arts Exploration requirement.
- Students are expected to follow the catalog requirements for General Education, the major, and additional requirements.
- A minor or second major within the areas listed under Paths of Knowledge automatically fulfills that area of the Gen Ed requirements.

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## **OPPORTUNITIES FOR MAJORS**

### **Science Association**

The object of this club is to afford an opportunity for the students of science to become better acquainted, to secure the intellectual stimulation that arises from professional association, to obtain experiences in preparing and presenting technical material before chemical audiences, to foster a professional spirit among the members, to instill a professional pride in the sciences, and to build an awareness of the responsibilities and challenges facing the modern scientist. Membership of this association is open to students pursuing their study in the area of science and related fields.

### **Pre-Health Club**

The Pre-Health Professions Club includes, but is not limited to, Pre-Medical, Pre-Dental, Physician Assisting, Occupational Therapy, Nursing, and Pre-Veterinary students. It provides a setting in which students who are working toward future careers in the health professions can get together, share information, learn more about the health professions in general, and develop friendships with students who share some of their interests. Members of this organization are composed of students pursuing study in several areas of science and related health fields.

### **Environmental Club**

The purpose of this student organization is to maintain the temperate deciduous forest, riparian, and freshwater ecosystems about Alvernia University and the community it serves. The organization does this by recruiting new members, educating the public, and holding events that draw attention to the environment. Such events are Eco-Fun Day, trail clean-up days, and hosting public speaker seminars.

### **Beta Kappa Chi**

Beta Kappa Chi is the National Science Honor Society composed of chapters which seek to encourage and advance scientific education through original education, the dissemination of scientific knowledge and the stimulation of high scholarship in pure and applied science.

### **Epsilon Gamma Chapter of the Delta Epsilon Sigma Honor Society**

This is a National Scholastic Honor Society for students, faculty, and alumni of colleges and universities with a Catholic tradition.

### **The Washington Center Experience**

Alvernia students have an opportunity to earn college credit by spending a semester or summer in Washington, D.C. where they serve as interns in a congressional office, government agency, major corporation, newspaper or news network, or agencies devoted to legal affairs, international relations, or business and economics. They also may intern with one of several non-profit groups dealing with the environment, women's issues, the arts, education, science, or labor relations among others. Participants are customarily juniors or seniors who have achieved grade point averages of 2.5 or better and who have the endorsement of the appropriate academic area. In addition to their internship, students select one seminar dealing with the arts and humanities, communication, public policy, the legal system, business, and government. Interested students should see their academic advisor.

## General Education (54-56 credits)

First Year Curriculum: Enduring Questions	Credits Required	Course	Term	Grade	Credits Earned
SEARCH Seminar-Enduring Questions or Honor Search-Enduring Questions	3	SRH 101/ HNR 160			
COM 101: Composition & Research (Must earn a C or higher)	3	COM 101			
THE 105: Foundations of Theology	3	THE 105			
PHI 105: Introduction to Philosophy	3	PHI 105			

Mid-Level Liberal Arts Exploration	Credits Required	Course	Term	Grade	Credits Earned
<b>EXPLORING THE NATURAL WORLD (6-8 credits)</b>					
Lab Science (Biology, Chemistry, Physics )	3-4	MET IN MAJOR			
Math (Other than MAT 100)	3-4	MET IN MAJOR			
<b>INDIVIDUALS &amp; COMMUNITIES (6 credits)</b>					
History or Political Science	3				
PSY 101, HIS, POS, SOC, SSC, or ECON	3				
<b>CULTURE &amp; LANGUAGE (9 credits)</b>					
Communication (Not COM 100 or 101)	3				
World Language – 2 courses in sequence	3				
	3				
<b>CREATIVE EXPRESSIONS (6 credits)</b>					
Literature (ENG)	3				
Art, Music, or Theatre	3				

Ethical Leaders and Followers	Credits Required	Course	Term	Grade	Credits Earned
Theology or Philosophy (200-400 level)	3				
Theology or Philosophy (Ethics/Morality @ 200 level)	3				

Paths of Knowledge – Choose 1 Path		PoK may count towards minor or Related Requirements, but not Mid-Level Arts Exploration requirements.			
<p><b>____ PATH 1:</b> <b>Interdisciplinary Study (IS)</b> Three courses, at least two from Liberal Arts disciplines, not the major, at the 200-400 level from the interdisciplinary minors of Women &amp; Gender Studies, Digital Media, Community &amp; Environmental Sustainability, Community Engagement, Cultural Studies, Leadership Studies or Pre-Law.</p>	<p><b>____ PATH 2:</b> <b>Multi-disciplinary Study (MS)</b> Three courses, at least two from Liberal Arts disciplines, not the major, at the 200-400 level employing multiple disciplinary perspectives to explore the Enduring Questions in one of the following themes: Cultural &amp; Global Studies, Imagination &amp; Creativity, Peace &amp; Conflict, Poverty &amp; Wealth or Sustainability, Science &amp; Technology.</p>	<p><b>____ PATH 3:</b> <b>In-depth Disciplinary Study (DS)</b> Three courses at the 200-400 level in one Liberal Arts discipline other than one's major, guided by common ideas and methods of inquiry. Students choose from Art, Biology, Chemistry, Communication, Computer Science, Economics, English, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Theology, Theatre or World Languages. This path may be used to give students a firm foundation in a discipline supporting their chosen major, or to pursue an interest in one of the Liberal Arts disciplines.</p>			
Course (See Catalog for lists of approved courses for each area.)		Area or Discipline	Term	Grade	Credits Earned



## EIGHT SEMESTER PLAN

**During the first 3 semesters, it is important for students to make substantial progress toward completing those BIO and CHE courses that are pre-requisites for other required science courses (red).**

Semester 1	Credits	Semester 2	Credits
SRH 101: Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions	3	BIO 104: Principles of Biology II	4
BIO 103: Principles of Biology I	4	CHE 105: General Chemistry II	3
CHE 104: General Chemistry I	3	CHE 111: General Chemistry Lab II	1
CHE 110: General Chemistry Lab I	1	MAT 131: Pre-Calculus	3
CHE 107: Laboratory Safety	1	THE 105 or PHI 105	3
COM 101: Composition and Research	3		3
TOTAL	15	TOTAL	14
Semester 3	Credits	Semester 4	Credits
MAT 209: Probability and Statistics	3	PHY 103: Earth Science	3
MAT 220: Math/ Statistics Comp Lab	1	Gen Ed SEARCH	3
CHE or BIO ELECTIVE	3-4	Gen Ed SEARCH	3
THE 105 or PHI 105	3	Gen Ed SEARCH	3
Gen Ed SEARCH	3	Gen Ed SEARCH	3
Gen Ed SEARCH	3		
TOTAL	16-17	TOTAL	15
Semester 5	Credits	Semester 6	Credits
PHY 110: General Physics I	4	PHY 111: General Physics II	4
CHE or BIO ELECTIVE	3-4	CHE or BIO ELECTIVE	3-4
Gen Ed SEARCH	3	Gen Ed SEARCH	3
Gen Ed SEARCH	3	Gen Ed SEARCH	3
Gen Ed SEARCH	3	ELECTIVE	3
TOTAL	16-17	TOTAL	16-17
Semester 7	Credits	Semester 8	Credits
SCI 402: Seminar	2	ELECTIVE	3
CHE or BIO ELECTIVE	3-4	ELECTIVE	3
SCI 406: Research I	3	ELECTIVE	3
Gen Ed SEARCH	3	ELECTIVE	3
ELECTIVE	3	Electives as needed (depends on req. taken science electives)	3
ELECTIVE	3		
TOTAL	17-18	TOTAL	15

ADDITIONAL GRADUATION REQUIREMENTS	RESIDENCY REQUIREMENTS	GRADUATION CREDITS EARNED	
___ SRH 101/HNR 160: SEARCH SEMINAR	___ Minimum of 123 non-remedial credits earned	Liberal Arts Core credits earned	
___ HUMAN DIVERSITY	___ 45 of last 60 credits	Major and Related Area credits earned	
___ COMMUNITY SERVICE HOURS	___ Minimum of 12 Alvernia credits in the major	Elective and/or Minor credits earned	
___ OVERALL GPA = 2.0 or higher	___ Minimum of 9 Alvernia credits in the minor (if applicable)	SUBTOTAL	
___ GPA IN MAJOR = 2.0 or higher		SUBTRACT CREDITS EARNED FOR MAT 100, and if applicable COM 100	
___ SENIOR CAPSTONE met with SCI 406/407		<b>TOTAL GRADUATION CREDITS</b>	
___ WRITING ENHANCED COURSE			

### Academic Policy on Eligibility for Participation of May Commencement Ceremony

The academic policy, which the Registrar follows, is : A student who has 6 or less credits remaining to complete the degree may participate in the May Commencement Ceremony.

**Application Deadlines:** August Graduation - December 1; December Graduation - March 1; May Graduation - October 1.

Any questions, please call the Registrar's Office.