ADVISING WORKSHEET FOR FORENSIC SCIENCE

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.

Where appropriate, courses required for the major can be used to satisfy Foundation requirements or Area I requirements. However, the credits earned for these courses are applied to *either* the Core or the major, not both.

Area II can be satisfied with courses from the related area in certain majors but not the required major courses themselves. The credits earned for these courses are applied to *either* the Core or the major, not both.

Students are expected to follow the catalogue requirements for the major, the core, and additional requirements.

A minor or second major within the areas listed under Area II will automatically fulfill that area of the core.

OPPORTUNITIES FOR MAJORS

Criminal Justice Association
The purpose of the Criminal Justice Associations is to expose and educate members about the field of Criminal Justice. The advisor, Professor Barry Harvey, may be reached via email at barry.harvey@alvernia.edu or by telephone at 610-796-8482.

Science Association
The object of this club is to afford an opportunity for the students of chemical 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 chemical sciences, and to foster an awareness of the responsibilities and challenges facing the modern chemist. Membership of this association should be composed of students pursuing their study in the area of science and related fields. The advisor, Dr. Rosemarie Chinni, can be reached by email at rosemarie.chinni@alvernia.edu or by telephone at 610-568-1492.

Beta Kappa Chi
Beta Kappa Chi is the Science Honor Society that seeks 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. The advisor, Professor Elaine Schalck, can be reached by email at elaine.schalck@alvernia.edu or by telephone at 610-796-8246.

The Washington Center Experience
Alvernia students have an opportunity to earn college credit by spending a semester 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.

THE LIBERAL ARTS CORE (54-55 CREDITS)

FOUNDATION COURSES	Required credits	Course	Term	Grade	Credits Earned
COM 101 (must earn a C or higher)	3	COM 101			
COMMUNICATION (not COM 100 or 101)	3				
LITERATURE	3				
MATHEMATICS (any MAT course other than MAT 100)	3-4	MET WITH RELATED REQ.			
ART/ MUSIC/THEATRE	3				
SOCIAL SCIENCE (BH 102, BH 201, CJ 275, ECON, POS, PSY, SOC, SSC)	3	MET WITH CJ 275			
HISTORY	3				
FOREIGN LANGUAGE (2 courses in sequence in the same language)	3				
	3				
SCIENCE (must take accompanying lab or course with a lab component)	3-4	MET IN MAJOR			
PHI 105: Introduction to Philosophy	3	PHI 105			
THE 105: Foundations of Theology	3	THE 105			
PED 304: Wellness for Life	3	PED 304			

AREA I (courses must be at the 200-400 level)	Required credits	Course	Term	Grade	Credits Earned
THEOLOGY or PHILOSOPHY	3				
ETHICS/MORALITY: One course from: THE 200, THE 210, THE 225, PHI 200, PHI 210, PHI 220; or special topics and other courses that fulfill this requirement.	3				

AREA II (courses must be at the 200-400 level; must <u>not</u> be from the primary major)	Required credits	Course	Term	Grade	Credits Earned
Students must take 3 courses <u>(not from the primary major)</u> from any one of the following: Art, Biology, Chemistry, Communications, Economics, Foreign Language, History, Literature, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Theology	3	MET IN RELATED AREA			
	3	MET IN RELATED AREA			
	3	MET IN RELATED AREA			

ADDITIONAL GRADUATION REQUIREMENTS	RESIDENCY REQUIREMENTS
___ COL 110/160: FIRST YEAR SEMINAR ___ HUMAN DIVERSITY ___ COMMUNITY SERVICE HOURS ___ OVERALL GPA = 2.0 ___ GPA IN MAJOR = 2.0	___ Minimum of 123 non-remedial credits earned ___ 45 of last 60 credits ___ Minimum of 12 Alvernia credits in the major ___ Minimum of 9 Alvernia credits in the minor (if applicable)

GRADUATION CREDITS EARNED	TOTAL
Liberal Arts Core credits earned	
Major and Related Area credits earned	
Elective and/or Minor credits earned	
SUBTOTAL	
SUBTRACT CREDITS EARNED FOR MAT 100, COM 100	
TOTAL GRADUATION CREDITS	

BS FORENSIC SCIENCE (86-92credits)

REQUIRED COURSE (55-56 credits)					
Course		**Pre-Requisites**	**Co-Requisites**	**Grade**	**Credits**
CHE 104: General Chemistry I			CHE 110		
CHE 110: General Chemistry I Lab			CHE 104		
CHE 107: Laboratory Safety					
CHE 105: General Chemistry II		CHE 104, 110	CHE 111		
CHE 111:General Chemistry Lab II			CHE 105		
CHE 201: Organic Chemistry I		CHE 104, 105, 110, 111	CHE 210		
CHE 202: Organic Chemistry II		CHE 201, 210	CHE 211		
CHE 210: Organic Chemistry Lab I		CHE 104, 105, 110, 111	CHE 201		
CHE 211: Organic Chemistry Lab II		CHE 201, 210	CHE 202		
CHE 212: Analytical Chemistry		CHE 104, 105, 110, 111			
CHE 221: Instrumental Analysis		CHE 212			
CHE 301: Physical Chemistry I		CHE 104, 105, 110, 111			
CHE 405: Forensic Chemistry		CHE 104, 105, 111, 201, 210, 202, 211, CJ 203			
CJ 101: Introduction to Criminal Justice					
CJ 175: Fundamentals of Criminal Investigation		CJ 101			
CJ 203: Criminalistics		CJ 101, 175			
CJ 207: Rules of Evidence		CJ 101, 201			
CJ 275: Criminology		CJ 101, 175			
Choose one course from =>	CHE 402: Seminar				
	CJ 403: Senior Seminar in Criminal Justice				
Choose one 6-credit option from =>	CHE 480 <u>or</u> CJ 408 Intern/Practicum (6 credits)				
	OR <u>6 credit research sequence:</u> CHE 316: Intro. to CHE Research (2 credits) CHE 317: Experimentation in CHE Research (2 credits) CHE 407: Data Analysis in Math/ Science Research (2 credits)				

REQUIRED RELATED COURSES (25-28 credits)				
Course	**Pre-Requisites**	**Co-Requisite**	**Grade**	**Credits**
RECOMMENDED: MAT 131: Pre-Calculus	math placement			
BIO 103: Principles of Biology				
BIO 115: Human Form & Function		BIO 116		
BIO 116: Human Form & Function Lab		BIO 115		
PHY 110: General Physics I	High school algebra			
PHY 111: General Physics II	PHY 110			
MAT 209: Probability & Statistics	High school algebra and satisfactory score on math placement test			
MAT 220: Math/Statistics Computer Laboratory	MAT 208 or 209	MAT 208 or 209		
MAT 230: Calculus I	MAT 131 or math placement test			

MAJOR ELECTIVES (6-8 credits) Select from:			
Course	**Pre-Requisites**	**Grade**	**Credits**
CHE 315: Forensic Toxicology	CHE 212, 221		
CHE 401/410: Biochemistry/Biochemistry Lab	CHE 104, 105, 110 or 112, 111, 201, 210, 202, 211		
BIO 303/309: Genetics and Molecular Genetics Lab	BIO 104 or instructor permission		
BIO 304/311: Cell Biology and Cellular Phys. Lab	BIO 104, CHE 105, 202		
BIO 315: Forensic Medicine	BIO 115,116		
BIO 405: Pharmacology	6 credits BIO or instructor permission		
BIO 409: Immunology	BIO 104, 304, CHE 105 or instructor permission		

EIGHT SEMESTER PLAN

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

Semester 1		**Semester 2**	
COL 110/160 – First Year Seminar	2	BIO 115 – Human Form & Function	3
COM 101 – Composition & Research	3	BIO 116 –Human Form & Function Lab	1
BIO 103 – Principles of Biology w/lab	4	CHE 105 – General Chemistry II	3
CHE 104 – General Chemistry I	3	CHE 111 – General Chemistry II Lab	1
CHE 110 – General Chemistry I Lab	1	CJ 101 – Introduction to Criminal Justice	3
CHE 107 – Laboratory Safety	1	MAT 230 – Calculus I	4
MAT 131 (recommended) or CORE	3		
TOTAL	17	TOTAL	15
Semester 3		**Semester 4**	
CHE 201 – Organic Chemistry I	3	CHE 202 – Organic Chemistry II	3
CHE 210 – Organic Chemistry II	1	CHE 211 – Organic Chemistry II Lab	1
PHY 110 – General Physics I	4	PHY 111 – General Physics II	4
CJ 175 – Fundamentals of Criminal Investigation	3	CJ 203 – Criminalistics	3
CORE	3	CORE	3
CORE	3	CORE	3
TOTAL	17	TOTAL	17
Semester 5		**Semester 6**	
*****NOTE: Math & Science students can enroll for an optional Math & Science internship for 6 credits any time after they reach Junior standing.**			
BIO/CHE ELECTIVE	3	CHE 221 – Instrumental Analysis	3
CHE 212 – Analytical Chemistry w/ lab	1	CHE 317 – Experimentation Math/Science***	2
CHE 316 – Intro. to Math/Science Research***	4	BIO/CHE ELECTIVE	3-4
CORE	2	MAT 209 – Probability & Statistics	4
CORE	3	MAT 220 – Math/Statistics Computer Lab	1
	3	CORE	3
TOTAL	16	TOTAL	16-17
Semester 7		**Semester 8**	
CHE 407 – Data Analysis in Math & Science***	2	CHE 405 – Forensic Chemistry	4
CHE 301 – Physical Chemistry I	3	CHE 402 – Chemistry Seminar OR CJ 403 – Criminal Justice Seminar	2-3
CJ 207 – Rules of Evidence	3	CJ 275 – Criminology	3
CORE	3	CORE	3
CORE	3	CORE	3
TOTAL	14	TOTAL	15-16

CAREER READINESS TIME LINE

Freshman Year	• Work on educational planning in FYS • Look for community service opportunities
Sophomore Year	• Make an appointment with The Career Development Office • Attend an internship workshop and learn the basics of finding an internship • Get to know the Career Development Office Internship Database • Look for a student leadership position on campus
Junior Year	• Get to know the Vault.com, a comprehensive career-services library available on line through the Career Development website • Apply for internships • Make an appointment with Career Development to discuss job search strategies
Senior Year	• Polish your resume • Search for jobs through Vault. Com • Attend interview skill building workshops • Attend the Alvernia Job Fair