

An Overview of the Wilkes GenEd Program

In addition to their major, Wilkes students are required to take a series of General Education courses. These courses, listed below, mostly fit into two categories: skills courses and distribution courses. The skills courses help students develop skills that they will need throughout their college education. For this reason, they are best taken as early as possible. In contrast, the distribution courses seek to expose students to various disciplines outside the major. This exposure helps make a Wilkes graduate well-rounded, with broad interests that will continue to enrich his or her life years after graduation.

Skills Courses

Students are required to take five courses in the skills areas. These courses are best taken in the first two years of study.

	Requirement	Credits	Comments
1.	First Year Foundation	3	FYF-101 helps bridge the transition to college. It <i>must</i> be taken the first year, and is best taken in the fall.
2.	Written Communication	4	ENG-101 (composition)
3.	Computer Literacy	4	Satisfied by the CS-125 requirement of the major.
4.	Oral Communication	—	Satisfied by the Senior Seminar course of the major.
5.	Quantitative Reasoning	4	Satisfied by the MTH-111, 112, and 212 requirements of the major.

Distribution Courses

The Distribution Requirements are a selection of introductory courses from each of the university's four areas of study. Eight courses from the four areas must be taken. In some cases, courses other than the ones listed below may count towards the requirement — *eg*, musical performance.

	Area	Credits	Courses
1.	The Humanities	9	· ENG-120, literature <i>best taken early</i> · HIS-101, world history · PHL-101/110, philosophy <i>or</i> foreign lang
2.	The Scientific World	8	Satisfied by the requirements of the major (!)
3.	The Social Sciences	6	Two courses from: EC-102, microeconomics PS-111, American government ANT-101, intro to anthropology PSY-101, general psychology SOC-101, intro to sociology
4.	Visual and Performing Arts	3	One course from: ART-101, experiencing art ART-140/1, art history DAN-101, dance appreciation IM-101, fndns of integrative media MUS-101, intro to music THE-101, approach to theatre

Capstone

The last portion of the GenEd requirement is a senior capstone. Just as the First Year Foundations course is designed to help students transition from high-school to college, the capstone (CHM-390/391/392) helps students transition from college to “the real world” — employment, graduate studies, etc. For the Chemistry and Biochemistry majors, the capstone consists of research on an ongoing laboratory project and communication of the results, both in a seminar and in a poster. In many cases, Chemistry and Biochemistry majors also present their posters at a national conference of the American Chemical Society.

Majors in the Chemistry Department

The chemistry department offers three majors: a B.S. in Chemistry, a B.S. in Biochemistry, and a B.A. that combines Chemistry with a concentration in another domain (*eg.* Art, Business, Computer Science, Forensic Science, Premedical Studies, or Secondary Education). The three majors are summarized below. The core courses for all three majors are the same, but the upper-level requirements differ.

Core Courses

			Credits
1.	CHM 113-6	Intro Chem I, II	8
2.	CHM 231-4	Organic Chem I, II	8
3.	CHM 246,8	Analytical Chem	4
4.	CHM 322,3	Inorganic Chem	4
5.	CHM 341,3	Instrumental Analys	4
6.	CHM 390	Junior Seminar	1
7.	CHM 391,2	Senior Research	4
Cognate Courses (Courses from other departments, required by the major)			
8.	MTH 111,2	Calculus I, II	8
9.	CS 125	Computer Sci I	4
10.	PHY 201,2,4,5	Physics I, II	8

Biochemistry Major

Core courses plus:			
11.	BIO 121-2	Intro Bio I, II	8
12.	BIO 226	Cell & Molec Biol	4
13.	CHM 351-4	Physical Chem I, II	8
14.	CHM 361-3	Biochemistry	7
15.	—	Bio Electives	6

Chemistry Major

Core courses plus:			
11.	CHM 351-4	Physical Chem I, II	8
12.	CHM 365,3	Biochemistry	5
13.	—	Chemistry Electives	6

Combined (BA) Major

Core courses plus:			
11.	CHM 355,7	Phys Chem Life Sci	4
12.	CHM 365,3	Biochemistry	5

Chemistry/Secondary Education

B.A. requirements plus:			
13.	ED 180	Educ Psych	3
14.	ED 190	Effective Tchg	3
15.	ED 191	Classrm Technol	3
16.	ED 210	Special Needs	3
17.	ED 220	Multiculturalism	3
18.	EDSP 225	Special Ed Mthds	3
19.	ED 371	Tchg Methds: Sci	4
20.	ED 380	Content Area	3
21.	ED 388	Inclusionary Practs	3
22.	ED 390	Student Tchg	12