

Third Year

First Semester	Hrs.
BIOL Elective.....	3 (or 4)
GEC Electives	6
General Electives	6
Total	15 (or 16)

Second Semester	Hrs.
BIOL Elective.....	4
BIOL Elective.....	3
GEC Elective.....	3
General Elective.....	6
Total	16

Fourth Year

First Semester	Hrs.
BIOL Electives.....	6 (or 7)
General Electives	6
GEC Electives	6
Total	18 (or 19)

Second Semester	Hrs.
BIOL Electives.....	6 (or 7)
GEC Elective.....	6
General Elective.....	3
Total	15 (or 16)
Total Hours.....	128

Bennett Department of Chemistry

Harry O. Finklea, Chair

Jeffrey L. Petersen, Associate Chair

Degrees Offered

Bachelor of Arts, Bachelor of Science

Nature of Program

The Bennett Department of Chemistry offers three degree programs: the bachelor of science (chemistry), the bachelor of arts with a major in chemistry, and the bachelor of arts in biochemistry with an area of emphasis in chemistry. These programs meet the needs of all students who have an interest in the broad field of chemistry.

The Department of Chemistry is located in Clark Hall, a state-of-the-art teaching facility for chemistry. Clark Hall offers many new instruments, numerous safety features, excellent ventilation and ample hoods, and complete accessibility for the physically handicapped. The department also has modern research facilities in the adjacent Chemistry Research Laboratory building, where advanced undergraduates may participate in research projects.

The bachelor of science (chemistry) is approved by the American Chemical Society. This program is for students who desire to qualify for professional positions in industrial and governmental laboratories as well as those who plan to do graduate work in chemistry or allied areas in preparation for research careers in industry or academia.

The bachelor of arts with a major in chemistry is for students who pursue careers requiring a good background in the basic principles of chemistry. Areas such as medicine, dentistry, or other health-related sciences; secondary school teaching; chemical laboratory technical work; law or business may be pursued with a proper choice of electives.

The two programs are similar during the first two years. Students in the B. S. program should complete the calculus requirement as soon as possible as a prerequisite for both the physics and physical chemistry sequences. The two degree programs differ primarily in the chemistry requirements. The B.S. program requires more upper-level chemistry courses than the B.A. program.

Chemistry Scholarships

In addition to financial aid offered by the University, the department maintains five scholarship programs specifically for chemistry majors. The John A. Moore Trust Scholarships, the Charles L. Lazzell Scholarship, the Carpenter Family Scholarship, the Robert L. and Patricia Miller Stultz Chemistry Scholarship, and the Hodge Scholarships are awarded to students in either the B. S. or B. A. programs with records of outstanding achievement and demonstrated financial need. Several of these scholarships are restricted to West Virginia residents. Scholarship recipients are expected to remain as chemistry majors and to maintain a 3.0 average in their degree programs in order to be eligible for continued support.

Admission Requirements

In addition to college requirements, admission to either program and continuance in each requires a cumulative average of 2.0 or higher for courses in chemistry taken in the WVU Department of Chemistry.

Degree Requirements

Bachelor of Science with a Major in Chemistry

A total of 128 hours is required, subject to the general course exclusions for all degrees. The following courses are required: Chemistry (CHEM) 117 and 118 or CHEM 115, 116, and 215; CHEM 233, 234, 235, 236, 310, 313, 335, 346, 347, 348, 349, 401, 403, 422, 423, AGBI 410, plus six hours of approved chemistry electives: MATH 155, 156, 251; Physics (PHYS) 111, 112. The six hours of approved chemistry electives must be selected from the following courses: CHEM 312, 339, 411, 441, 450, 460, 493, 496, 497, 514, 531, 532, 541; subject to the restriction that only three hours of CHEM 493, 496 or 497, separately or combined, may be counted toward the six-hour requirement. The following courses in other areas are recommended for consideration as general electives: Computer Science (CS) 101; ENGL 305; MATH 261, 465; PHYS 314, 451; STAT 331. A 2.0 average must be maintained in all chemistry courses above CHEM 236. A C or better grade in all prerequisites for chemistry courses is required for chemistry majors; the courses involved are chemistry courses, PHYS 112, MATH 156, and MATH 251.

Bachelor of Arts with a Major in Chemistry

The following courses are required: CHEM 115, 116 and 215, or CHEM 117 and 118; CHEM 233, 234, 235, 236, 341, 342, 401, (capstone requirement) 403 plus seven hours of approved chemistry electives; MATH 155, 156; PHYS 101, 102. The seven hours of approved chemistry electives must be selected from the following courses: CHEM 310, 312, 313, 335, 339, 411, 422, 423, 441, 460, 493, 496, 497, 514, 531, 532, 541 subject to the restriction that only three hours of CHEM 493, 496, or 497, separately or combined, may be counted toward the seven-hour elective requirement. A grade of C or better in all prerequisites for chemistry courses is required for chemistry majors; the courses involved are chemistry courses, PHYS 102, and MATH 156. Also, a 2.0 average must be maintained in all chemistry courses above CHEM 236.

Options

Students in the B.A. program may use AGBI 410 to meet part of the seven-hour chemistry elective requirement; however, at least three hours must be selected from chemistry courses numbered 310 or higher.

Students in the B.A. program may take CHEM 346, 347, and 348 in lieu of CHEM 341 and 342 and three hours of chemistry electives. CHEM 349 may be taken as two hours of chemistry elective.

Students in either degree program may seek admission to the departmental honors Program. A student must have a 3.5 average in chemistry courses taken at WVU and must have the endorsement of the chemistry faculty. A student may apply for admission to the program at any time after the student's first semester and no later than three semesters before graduation.

The program includes a written report based upon a research project performed under the supervision of a member of the chemistry faculty. For further information a student should consult the associate chairperson.

Suggested Chemistry (B.A.) Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
CHEM 115 (or 117)	4 (or 5)	CHEM 116 (or 118)	4 (or 5)
MATH 115 (or 126)	4 (or 3)	MATH 156 (or 128)	4 (or 3)
GEC Elective	3	ENGL 101	3
Non-Chemistry Elective*	4	Non-Chemistry Elective*	4
Total	15 (or 16)	Total	15 (or 16)

Second Year

	Hrs.
First Semester	
CHEM 233	3
CHEM 234	1
PHYS 101	4
Foreign Language	3
GEC Elect. (or MATH 155)	3 (or 4)
ENGL 102	3
Total	17 (or 18)

	Hrs.
Second Semester	
CHEM 234	3
CHEM 235	1
PHYS 102	4
Foreign Language	3
GEC Elect. (or MATH 156)	3 (or 4)
GEC Elective	3
Total	17 (or 18)

Third Year

	Hrs.
First Semester	
CHEM 215 (if 117 and 118	4
were not taken)	
GEC Elective <i>or</i>	
Foreign Lang. (if necessary)	3
GEC Electives	6
General Elective	3
Total	16

	Hrs.
Second Semester	
CHEM 341	3
CHEM 342	1
GEC Elective <i>or</i>	
Foreign Lang. (if necessary)	3
GEC Electives	6
CHEM Elective	3 (or 4)
Total	16 (or 17)

Fourth Year

	Hrs.
First Semester	
CHEM 401	1
CHEM Elective	3 (or 4)
GEC Elective (if needed)	3
General Electives	9
Total	16 (or 17)

	Hrs.
Second Semester	
CHEM 403	1
GEC Elective (if needed)	3
General Electives	12
Total	16
Total Hours	128

*May consider BIOL 115 and 117.

Suggested Chemistry (B.S.) Curriculum

First Year

	Hrs.
First Semester	
CHEM 117 (or 115)	5 (or 4)
MATH 155	4
GEC Electives	3 (or 6)
General Elective	3
Total	15 (or 17)

	Hrs.
Second Semester	
CHEM 118 (or 116)	5 (or 4)
MATH 156	4
ENGL 101	3
GEC Electives	6
Total	18 (or 17)

Second Year

	Hrs.
First Semester	
CHEM 215 (if CHEM 115 & 116	4
were taken)	
CHEM 233	3
CHEM 235	1
PHYS 111	4
MATH 251	4
Total	16

	Hrs.
Second Semester	
CHEM 234	3
CHEM 236	1
PHYS 112	4
GEC Elective	3
ENGL 102	3
Total	14

Third Year

	Hrs.
First Semester	
CHEM 335	4
CHEM 346	3
AGBI 410	3
GEC Electives	6
Total	16

	Hrs.
Second Semester	
CHEM 310	3
CHEM 348	3
CHEM 347	1
General Electives	9
Total	16

Fourth year

First Semester	Hrs.	Second Semester	Hrs.
CHEM 401	1	CHEM 403	1
CHEM 313	1	CHEM 423	2
CHEM 422	3	CHEM Elective	3
CHEM 349	2	General Electives	8 (or 7)
CHEM Elective	3	GEC Elective	3
General Electives	6	Total	17 (or 16)
Total	16	Total Hours	128

Communication Studies

Matthew M. Martin, Chair

Andrea Weber, Undergraduate Coordinator

Degree Offered

Bachelor of Arts

Nature of Program

The Department of Communication Studies offers a curriculum to meet the needs of liberal arts and pre-professional students oriented toward communication-related careers. The undergraduate curriculum focuses upon the application of theory and research in human communication to a variety of personal, social, and organizational settings. Majors may elect to follow either a data analysis specialty or an applied communication emphasis. All majors complete a capstone sequence that consists of two courses intended to integrate academic coursework and apply course material to real-world experience.

Data Analysis Specialty

This curriculum is designed for students who desire a broad, liberal-arts emphasis or who plan to enter graduate study in communication. Special emphasis is given to the design, collection, and analysis of human communication data. In addition, students acquire background in interpersonal, nonverbal, organizational, and mass communication.

Admission Requirements To be admitted to the major, students must have a cumulative grade point average (GPA) of 3.0; a cumulative 3.0 GPA in all Communication Studies classes; of have completed COMM 200 and 201 with a combined GPA of 3.0; and have completed at least 30 hours of coursework.

The data analysis specialty area of emphasis requires 128 hours, of which students must complete a minimum of 36 hours in communication studies that includes COMM 200, 201, 401, 403, and 491. While students may take over three credits of COMM 491 *Field Experience*, only three credits of 491 will count toward the necessary 36. All students must complete a minimum of 30 hours of credit, 21 of which must be in communication studies, following the semester in which they were admitted to this program. Students must also complete 21 hours of coursework outside of the department. Within these 21 hours, students must complete CS 101, STAT 211 or ECON 225, MATH 126, and PSYC 202. Additional decisions involving elective coursework to fulfill this 21 hour requirement will be made in consultation with a communication studies advisor.

Applied Communication Studies

This curriculum is designed for students who plan careers in business or government organizations. Along with a core of general communication coursework, it allows students to design a plan of study that will meet their varying interests and career goals.

Admission Requirements To be admitted to the major, students must have a cumulative grade point average (GPA) of 2.5; a cumulative GPA in all communication studies classes of 2.5; have completed COMM 200 and 201 with a combined GPA of 2.5; and have completed at least 30 hours of coursework.

The applied communication studies area of emphasis requires 128 hours, of which students must complete a minimum of 36 hours in communication studies that includes COMM 200, 201, 403, and 491. While students may take over three credits of COMM 491