

CHEMISTRY | BACHELOR OF SCIENCE: CHEMISTRY

Degree Maps

Course	Title	Hours
First Year		
Fall		
CHEM 101	Orientation to Chemistry	1
CHEM 120 & 120L	University Chemistry I and University Chemistry Laboratory I	5
MATH 234	Analytic Geometry and Calculus I	5
ENG 101	English Composition I	3
UNIV 101	Freshman Seminar	1
Hours		15
Spring		
CHEM 122 & 122L	University Chemistry II and University Chemistry Laboratory II	5
ENG 102	English Composition II	3
MATH 235	Analytic Geometry and Calculus II	5
SGE070 - Institutionally Designated Area: Personal and Professional Development		3
Hours		16
Second Year		
Fall		
CHEM 340 & 340L	Organic Chemistry and Organic Chemistry Laboratory I	5
MATH 236	Analytic Geometry and Calculus III	3
PHYS 211 & 211L	Engineering Physics I and Engineering Physics I Laboratory	5
Open Electives		3
Hours		16
Spring		
CHEM 342 & 342L	Organic Chemistry II and Organic Chemistry Laboratory II	5
PHYS 212 & 212L	Engineering Physics II and Engineering Physics II Laboratory	5
COMM 100	Fundamentals of Oral Communication	3
SGE050 - Social Behavioral Sciences Discipline Area		3
Hours		16
Third Year		
Fall		
CHEM 350 & 350L	Chemical Analysis and Chemical Analysis Laboratory	5
CHEM 632 & 632L	Physical Chemistry: Chemical Thermodynamics and Physical Chemistry Laboratory I	5
SGE050 - Social Behavioral Sciences Discipline Area		3
Open Electives		3
Hours		16
Spring		
CHEM 634 & 634L	Physical Chem: Quantum Mechanics & Chem Kinetics and Advanced Physical and Inorganic Laboratory	5
CHEM 666	Inorganic Chemistry	3
Directed Electives		3
SGE060 - Arts Humanities Discipline Area		3
Hours		14
Fourth Year		
Fall		
CHEM 662 & 662L	Biochemistry I and Biochemistry Laboratory I	5
CHEM 656 & 656L	Instrumental Analysis and Advanced Instrumental and Physical Laboratory	5
SGE060 - Arts Humanities Discipline Area		3

CHEM 672	Readings in Chemistry	2
Hours		15
Spring		
CHEM 675	Seminar in Chemistry	1
PHIL 100	Critical Thinking	3
Open Electives		3
Directed Electives		3
Directed Electives		2
Hours		12
Total Hours		120

Academic Degree Maps are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see the overview tab for courses. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (<https://catalog.fhsu.edu/general-education/>) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.