

B.S. Chemistry

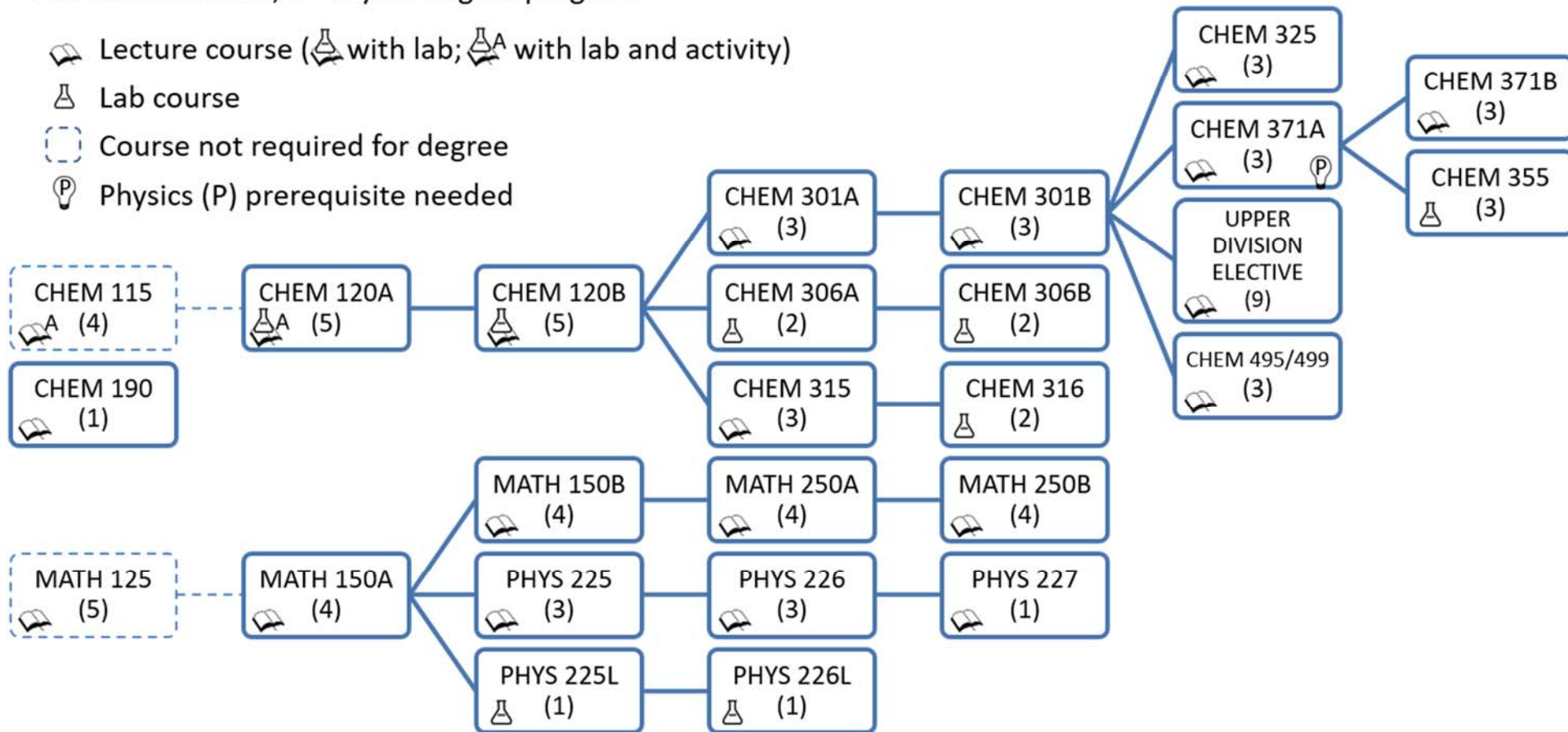
Full-time students, 4 – 5 year degree program

Lecture course (with lab; with lab and activity)

Lab course

Course not required for degree

Physics (P) prerequisite needed



Recommended schedule: 12 – 18 units per semester for full-time students

Course (# units)

Prerequisite – you must pass X (C or better) before enrolling in Y

Other resources:

- Academic Advisement Center (GE), GH-123, 657-278-3606
- Health Professions Advising, GH-223, 657-278-3980

B.S. Chemistry Degree Requirements

The Bachelor of Science in Chemistry is offered for students who are planning to go directly into industrial chemistry and for those who wish to do graduate work in physical, analytical, organic or inorganic chemistry. Students who complete this program and include Advanced Inorganic Chemistry (Chem 425) and Biological Chemistry (Chem 421) qualify for certification by the American Chemical Society.

The following is a list of the required courses for the B.S. in Chemistry:

Chemistry Courses

Course number	Course title	Units
Chem 120 A, B	General Chemistry	10
Chem 190	Career Options in Chemistry and Biochemistry	1
Chem 301 A, B	Organic Chemistry	6
Chem 306 A, B	Organic Chemistry Laboratory	4
Chem 315, 316	Quantitative Chemistry with Laboratory	5
Chem 325	Inorganic Chemistry	3
Chem 355	Physical Chemistry Laboratory	3
Chem 371 A, B	Physical Chemistry	6
Chem 495 / 499	Senior Research	3
	Upper division electives*	9
		50

Related Courses

Course number	Course title	Units
Phys 225, 226	Fundamental Physics	6
Phys 225 L, 226 L	Fundamental Physics Laboratory	2
Phys 227 (1 unit)	Fundamental Physics	1
Math 150 A, B	Analytical Geometry and Calculus	8
Math 250 A	Intermediate Calculus	4
Math 250 B	Linear Algebra with Differential Equations	4
		25

* The upper division elective requirement is satisfied by taking nine units of upper division coursework directly related to the students' career plans in chemistry and approved by the Undergraduate advisor.