

CHEMISTRY ACS CERTIFIED CHEMISTRY TRACK, MAJOR

Degree Requirements

Code	Title	Hours
General Education Requirements		
https://bulletin.southalabama.edu/programs-az/arts-sciences/#generaleducationtext		50-54
Major Requirements		46
A. Complete the following:		
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4
CH 150	Intro to Computer Chemistry	2
CH 201 & 201L	Organic Chemistry I and Organic Chemistry I Lab	4
CH 202 & 202L	Organic Chemistry II and Organic Chemistry II Lab	4
CH 265 & 265L	Introductory Analysis and Introductory Analysis Lab	4
CH 301 & 301L	Physical Chemistry I and Physical Chemistry I Lab-W	4
CH 302 & 302L	Physical Chemistry II and Physical Chemistry II Lab - W	4
CH 401	Intern Inorganic Chemistry	3
CH 440	Biochemistry I	3
CH 465 & 465L	Instrumental Analysis and Instrumental Analysis Lab	5
CH 492	Seminar I	1
B. Select four hours from one or both of the following:		
CH 394	Directed Studies -	4
CH 494	Directed Studies	
Other STEM Requirements		
See below for details on required coursework in Mathematics and Physics.		
Minor Requirements		
A minor is required for this degree program		18-24
A MINIMUM OF 120 HOURS IS REQUIRED FOR A DEGREE		120

All undergraduates must complete two designated writing credit (W) courses, at least one must be in major or minor.

Other STEM Requirements

Code	Title	Hours
Mathematics		
Two semesters of calculus are required, as follows:		
MA 125	Calculus I	4
MA 126	Calculus II	4
Physics		
A Physics or Physics/Mathematics sequence is required. Select one of the following options:		
Option 1:		

PH 201	Calculus-Based Physics I
PH 202	Calculus-Based Physics II
Option 2:	
PH 114	Physics with Algebra-Trig I
PH 115	Physics with Algebra -Trig II
MA 227	Calculus III
Option 3: see footnote table below (p. 1) ¹	
PH 114	Physics with Algebra-Trig I
PH 115	Physics with Algebra -Trig II
PH 201	Calculus-Based Physics I
Option 4: see footnote table below (p. 1) ¹	
PH 114	Physics with Algebra-Trig I
PH 115	Physics with Algebra -Trig II
PH 202	Calculus-Based Physics II

Footnote

¹ Options 3 and 4 require the approval of the Chair of the Department of Physics.

Graduation Plan

(121 Total Hours)

Course	Title	Hours
First Year		
Fall		
CH 131 & 131L	General Chemistry I and General Chemistry I Lab ¹	4
MA 125	Calculus I	4
CAS 100	First Yr Exp -	2
EH 101	English Composition I	3
Fine Arts	Area II, C ²	3
Hours		16
Spring		
CH 132 & 132L	General Chemistry II and General Chemistry II Lab ¹	4
CH 150	Intro to Computer Chemistry	2
MA 126	Calculus II	4
EH 102	English Composition II	3
History	Area IV, A ²	3
Hours		16
Second Year		
Fall		
CH 201 & 201L	Organic Chemistry I and Organic Chemistry I Lab	4
PH 201 & 201L	Calculus-Based Physics I and Calculus-Based Physics I Lab	4
Foreign Language	Area V, A ²	3
CA 110	Public Speaking	3
Hours		14
Spring		
CH 202 & 202L	Organic Chemistry II and Organic Chemistry II Lab	4
PH 202 & 202L	Calculus-Based Physics II and Calculus-Based Physics II Lab	4
Foreign Language	Area V, A ²	3
Literature	Area II, B ²	3
Minor course		3
Hours		17

Third Year

Fall		
CH 265 & 265L	Introductory Analysis and Introductory Analysis Lab	4
CH 301 & 301L	Physical Chemistry I and Physical Chemistry I Lab-W	4
History, Social, or Behavioral Science	Area IV, B ²	3
Humanities	Area II, D	3
Minor course		3
Hours		17

Spring		
CH 302 & 302L	Physical Chemistry II and Physical Chemistry II Lab - W	4
CH 394 or CH 494	Directed Studies - or Directed Studies	2
Humanities	Area II, D ²	3
History, Social, or Behavioral Science	Area IV, B ²	3
Minor course		3
Hours		15

Fourth Year

Fall		
CH 440	Biochemistry I	3
CH 465 & 465L	Instrumental Analysis and Instrumental Analysis Lab	5
CH 394 or CH 494	Directed Studies - or Directed Studies	2
Minor course		3
Hours		13

Spring		
CH 401	Intern Inorganic Chemistry	3
CH 492	Seminar I	1
History, Social, or Behavioral Science	Area IV, B ²	3
Minor courses		6
Hours		13
Total Hours		121

¹ While the General Chemistry I and II Lecture and Lab are not strict co-requisites, completion of both is required to enroll in any course for which they are a pre-requisite. It is very strongly suggested that CH 131 and CH 131L be taken the same semester, and CH 132 and CH 132L be taken the following semester.

² See General Education Requirements