CHEMISTRY BIOCHEMISTRY TRACK, MAJOR

Degree Requirements

Code	Title	Hours	
	on Requirements		
https://bulletin.southalabama.edu/programs-az/arts-sciences/ #generaleducationtext			
Major Requirem	ents	44	
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	
Select one of the	e following:	4	
CH 301 & 301L	Physical Chemistry I and Physical Chemistry I Lab-W		
CH 302 & 302L	Physical Chemistry II and Physical Chemistry II Lab - W		
CH 440	Biochemistry I	3	
CH 441	Biochemistry II	3	
CH 443	Lab Studies in Biochemistry	2	
CH 465 & 465L	Instrumental Analysis and Instrumental Analysis Lab	5	
CH 492	Seminar I	1	
B. Select four ho	ours from one or both of the following:	4	
CH 394	Directed Studies -		
CH 494	Directed Studies		
Other STEM Requirements			
See below for de Physics.	etails on requied coursework in Mathematics and		
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.

Notes

Electives: Students in the Biochemistry track who desire ACS Certification of their degree must take CH 401 as an elective course.

Other STEM Requirements

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Code	Title	Hours
Mathematics		
Two semesters of	f 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 8-14 of the following options:

Op	tı	0	n	1:	

	op		
	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

Graduation Plan

(122 Total Hours)

Course	Title	Hours
First Year		
Fall		
CH 131 & 131L	General Chemistry I and General Chemistry I Lab ¹	4
CAS 100	First Yr Exp -	2
EH 101	English Composition I	3
MA 125	Calculus I	4
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
EH 102	English Composition II	3
MA 126	Calculus II	4
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
CA 110 Public Speaking		3
Foreign Language	Area V, A ²	3
	Hours	14
Spring		
CH 202 & 202L	Organic Chemistry II and Organic Chemistry II Lab	4

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

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 301	Physical Chemistry I	4
& 301L	and Physical Chemistry I Lab-W ³	
CH 440	Biochemistry I	3
History, Social, or Behavioral Science	Area IV, B ²	3
Humanities	Area II, D	3
Minor course		3
	Hours	16
Spring		
CH 265	Introductory Analysis	4
& 265L	and Introductory Analysis Lab	
CH 441	Biochemistry II	3
CH 394 or CH 494	Directed Studies - or Directed Studies	2
History, Social, or	Area IV, B ²	3
Behavioral Science	Alca IV, D	3
Minor course		3
	Hours	15
Fourth Year		
Fall		
CH 465	Instrumental Analysis	5
& 465L	and Instrumental Analysis Lab	
CH 394 or CH 494	Directed Studies - or Directed Studies	2
Humanities	Area II, D ²	3
Minor course		3
	Hours	13
Spring		
CH 443	Lab Studies in Biochemistry	2
CH 492	Seminar I	1
Elective or Minor Course		3
History, Social, or Behavioral Science	Area IV, B ²	3
Minor courses		6
	Hours	15
	Total Hours	122

While the General Chemistry I and II Lecture and Lab are not strict corequisites, 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

Biochemistry students must take one Physical Chemistry Lecture/Lab pair. CH 301/CH 301L is recommended for Biochemistry students and generally offered in the Fall; CH 302/CH 302L is allowed and generally offered in the Spring.