Fau	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs  Department Chemistry and Biochemistry  College Science		UUPC Approval UFS Approval Banner Catalog	
FLORIDA ATLANTIC				
UNIVERSITY				
Program Name		New Program*	Effective Date (TERM & YEAR)	
BS in Chemistry: Concentration in Biochemistry		<b>✓</b> Change Program*	Spring 2026	
Please explain	the requested change(s) and offe	er rationale below or on a	n attachment.	
mathematics req	of Chemistry and Biochemistry at Flouirements and elective course languatis revision introduces an alternate passed flexibility.	age for the BS in Chemistry w	vith a Concentration in	
allowing students Calculus with An	ective is to offer a more flexible pathw is to substitute Introductory Statistics ( alytical Geometry I (MAC2311) and E pathway is intended to expand access	(STA2023) and Methods of C Experimental Design and Stat	alculus (MAC2233) in place of tistical Inference (PSY3234).	
following stream "Other chemist	ecommend simplifying the current det ined statement: ry or biochemistry elective courses - vels from the Chemistry Department (	At least 3 credits. Any appro		
	revisions are designed to enhance ands, and support the College of Scien			
Faculty Contact/	and changes to existing programs must be a <b>Email/Phone</b> beckwith@fau.edu, (561)297-0046		nts that may be affected by the	
Approved by	Andrew les	wh's.	Date 10/15/2025	
Department Chair College Curriculus			10-22-25	
College Dean _	The selve		10/22/25	

11-03-25

Email this form and attachments to <a href="mailto:mjenning@fau.edu">mjenning@fau.edu</a> seven business days before the UUPC meeting.

Undergraduate Studies Dean \_

UUPC Chair

**UFS** President

Provost

### **Core Curriculum**

The following courses are required for all Chemistry majors:

Biochemistry 1	BCH 3033	3
General Chemistry 1	CHM 2045	3
General Chemistry 1 Lab	CHM 2045L	1
General Chemistry 2	CHM 2046	3
General Chemistry 2 Lab	CHM 2046L	1
Organic Chemistry 1	CHM 2210	3
Organic Chemistry 2	CHM 2211	3
Organic Chemistry Lab	CHM 2211L	2
Quantitative Analysis	CHM 3120	2
Quantitative Analysis Lab	CHM 3120L	2
General Physics 1 Lab	PHY 2048L	1
General Physics 2 Lab	PHY 2049L	1

## **Biochemistry Concentration**

In addition to the core curriculum, the B.S. in Chemistry (Biochemistry concentration) program requires the following courses.

Biochemistry 2	BCH 3034	3
Biochemistry Lab	BCH 3103L	3
RI: Advanced Biochemistry	BCH 4035	3
Biological Principles	BSC 1010	3
Biological Principles Lab	BSC 1010L	1
Chemical Literature	CHM 3060	1
Physical Chemistry 1	CHM 3410	3
Physical Chemistry 1 Lab	CHM 3410L	2
Calculus with Analytic Geometry 1 and	MAC 2311	4
Experimental Design and Statistical Inference	PSY 3234	3
or		
Introductory Statistics and	STA 2023	3
Methods of Calculus	MAC 2233	3
General Physics 1	PHY 2048	4 <b>or</b>
College Physics 1	PHY 2053	4

General Physics 2	PHY 2049	4 <b>or</b>
College Physics 2	PHY 2054	4
Choose a minimum of one of the following.		
Environmental Chemistry	CHM 3080	3
Inorganic Chemistry	CHM 3609	3
Inorganic Chemistry Lab	CHM 3609L	1
Bioanalytical Instrumentation	CHM 4139	2
Bioanalytical Instrumentation Lab	CHM 4139L	2
Organic Chemistry 3	CHM 4220	2
RI: Introduction to Drug Design	CHM 4273	3
Introduction to Drug Development	CHM 4274C	3
RI: Structural Biochemistry	CHM 4350	3
Materials Chemistry	CHM 4714	3
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# Other chemistry or biochemistry elective courses - At least 3 credits

Any **approved** course at the 3000, 4000, 5000, or 6000 levels from the Chemistry Department (CHM, CHS, or BCH)

### Minimum one of the following:

General Microbiology & Lab MCB 3020 3 & 3020L 1 (4 total)

Genetics PCB 3063 4

Cell Biology PCB 4023 3

Biological bases of behavior PSB 3002 3

#### Minimum one of the following:

Seminar BSC 4932 1

Directed Independent Study CHM 4905 1-3

Science Internship IDS 3941 1-3

Directed Independent Research in Chemistry CHM 4915 1-3

Directed Independent Research in Chemistry CHM 4916 0-3

Special Topics CHM 4933 1-4

### **Additional courses for Pre-Professional majors:**

Required course

Biodiversity BSC 1011 3

Biodiversity Lab BSC 1011 1

## Suggested electives

Human Morph & Function 1 & Lab PCB 3703 3 & PCB 3703L 1 (4 Total) or Comparative Vertebrate Morph & Lab Z00 4690 3 & Z00 4690L 1 (4 total) Human Morph & Function 2 & Lab PCB 3704 3 & PCB 3704L 1 (4 total) or Comparative Animal Physiology & Lab PCB 4723 3 & PCB 4723L 1 (4 total) Comparative Animal Behavior CBH 4024 3 Medical Shadowing Internship IDS 3940 1