

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Undergraduate Programs</b>		UUPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	<b>Department</b> Chemistry and Biochemistry <b>College</b> Science		
<b>Program Name</b> BS in Chemistry BS in Biochemistry		<input type="checkbox"/> <b>New Program*</b> <input checked="" type="checkbox"/> <b>Change Program*</b>	<b>Effective Date (TERM &amp; YEAR)</b> Spring 2025
<p><b>Please explain the requested change(s) and offer rationale below or on an attachment.</b></p> <p>Add CHM 4933 Special topics to the lists of upper division electives students can use to fulfill our BS programs' requirements. The course exists in the catalog and is an upper division elective, will be used in Spring 2025 for course "Coding for life sciences", and we want students and advisors to know they can use this course to fulfill our elective requirements.</p>			
<p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
<b>Faculty Contact/Email/Phone</b> Tito Sempertegui / tsempert@fau.edu 561 297 2508		<b>Consult and list departments that may be affected by the change(s) and attach documentation</b>	
<b>Approved by</b>		<b>Date</b>	
Department Chair <u>Andrew Terentis</u> 2024.10.22 11:34:29 <small>-04'00'</small>		10/22/24	
College Curriculum Chair <u>[Signature]</u>		10/23/24	
College Dean <u>[Signature]</u>		10-24-24	
UUPC Chair _____		_____	
Undergraduate Studies Dean _____		_____	
UFS President _____		_____	
Provost _____		_____	

Email this form and attachments to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.

## Chemistry

Bachelor of Science (B.S.)

ACS-Approved Program

In addition to the core curriculum, the ACS-Approved B.S. degree program requires the following courses.

Chemical Literature	CHM 3060
Physical Chemistry 1	CHM 3410
Physical Chemistry 1 Lab	CHM 3410L
Physical Chemistry 2	CHM 3411
Physical Chemistry 2 Lab	CHM 3411L
Inorganic Chemistry	CHM 3609
Inorganic Chemistry Lab	CHM 3609L
Bioanalytical Instrumentation	CHM 4139
Bioanalytical Instrumentation Lab	CHM 4139L
Calculus with Analytic Geometry 1	MAC 2311
Calculus with Analytic Geometry 2	MAC 2312
General Physics 1	PHY 2048
General Physics 2	PHY 2049

***Choose one of the following.***

Calculus with Analytic Geometry 3	MAC 2313
Differential Equations 1	MAP 2302

***Choose three of the following.***

Biochemistry 2	BCH 3034
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RI: Advanced Biochemistry	BCH 4035
Environmental Chemistry	CHM 3080
Organic Chemistry 3	CHM 4220
RI: Introduction to Drug Design	CHM 4273
Introduction to Drug Development	CHM 4274C
RI: Structural Biochemistry	CHM 4350
Materials Chemistry	CHM 4714
Directed Independent Study	CHM 4905
Directed Independent Research in Chemistry	CHM 4915
Directed Independent Research in Chemistry	CHM 4916
<b>Special topics</b>	<b>CHM 4933</b>

## **Chemistry**

Bachelor of Science (B.S.)

### **Biochemistry Concentration**

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

Biochemistry 2	BCH 3034
Biochemistry Lab	BCH 3103L
RI: Advanced Biochemistry	BCH 4035
Biological Principles	BSC 1010
Biological Principles Lab	BSC 1010L
Chemical Literature	CHM 3060
Physical Chemistry 1	CHM 3410
Physical Chemistry 1 Lab	CHM 3410L

Calculus with Analytic Geometry 1	MAC 2311
Experimental Design and Statistical Inference	PSY 3234
General Physics 1	PHY 2048
College Physics 1	PHY 2053
General Physics 2	PHY 2049
College Physics 2	PHY 2054

***Choose a minimum of one of the following.***

Environmental Chemistry	CHM 3080
Inorganic Chemistry	CHM 3609
Inorganic Chemistry Lab	CHM 3609L
Bioanalytical Instrumentation	CHM 4139
Bioanalytical Instrumentation Lab	CHM 4139L
Organic Chemistry 3	CHM 4220
RI: Introduction to Drug Design	CHM 4273
Introduction to Drug Development	CHM 4274C
RI: Structural Biochemistry	CHM 4350
Materials Chemistry	CHM 4714

***Choose a minimum of one of the following.***

General Microbiology	MCB 3020
General Microbiology Lab	MCB 3020L
Genetics	PCB 3063
Cell Biology	PCB 3023
Biological Bases of Behavior	PSB 3002

***Choose a minimum of one of the following.***

Seminar	BSC 4932
Directed Independent Study	CHM 4905
Science Internship	IDS 3941
Directed Independent Research in Chemistry	CHM 4915
Directed Independent Research in Chemistry	CHM 4916
<b>Special topics</b>	<b>CHM 4933</b>

Additional courses for Pre-Professional majors:

***Required***

Biodiversity	BSC 1011
Biodiversity Lab	BSC 1011L

***Suggested Electives***

Comparative Animal Behavior	CBH 4024
Medical Shadowing Internship	IDS 3940
Human Morphology and Function 1	PCB 3703
Human Morphology and Function 1 Lab	PCB 3703L
Comparative Vertebrate Morphology	ZOO 4690
Comparative Vertebrate Morphology Lab	ZOO 4690L
Human Morphology and Function 2	PCB 3704
Human Morphology and Function 2 Lab	PCB 3704L
Comparative Animal Physiology	PCB 4723
Comparative Animal Physiology Lab	PCB 4723L