Bachelor of Science with Major in Chemistry: Concentration in Biochemistry

Core Curriculum
All Chemistry majors must take a minimum of 16 credits of chemistry at Florida Atlantic University. 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

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
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
~~Physical Chemistry 2~~	~~CHM 3411~~	~~3~~
~~Physical Chemistry 2 Lab~~	~~CHM 3411L~~	~~2~~
~~Bioanalytical Instrumentation~~	~~CHM 4139~~	~~2~~
~~Bioanalytical Instrumentation Lab~~	~~CHM 4139L~~	~~2~~
Calculus with Analytic Geometry 1	MAC 2311	4
~~Calculus with Analytic Geometry 2~~	~~MAC 2312~~	~~4~~ Exp Design & Stat Inference PSY 3234 3
General Physics 1	PHY 2048	4 **or**
College Physics 1	PHY 2053	4
General Physics 2	PHY 2049	4 **or**
College Physics 2	PHY 2054	4

~~**One of the following:**~~		
~~Calculus with Analytic Geometry 3~~	~~MAC 2313~~	~~3~~

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Commented [MC1]: Moved to elective

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~~Differential Equations 1~~	~~MAP 2302~~	~~3~~

Minimum one of the following:		
Structural Biochemistry	CHM 4350	3
Introduction to Drug Design	CHM 4273	3
Bioanalytical Instrumentation & Lab	CHM 4139 & 4139L	2 2
Inorganic Chemistry CHM 3609 (3) & Lab	CHM 3609 & 3609L	3 1
Environmental Chemistry CHM 3080 (3)	CHM 3080	3
Materials Chemistry CHM 4714 (3)	CHM 4714	3
Organic Chemistry 3 CHM 4220 (3)	CHM 4220	3

Two of the following:		
~~Inorganic Chemistry~~	~~CHM 3609~~	~~3~~
~~Directed Independent Study~~	~~CHM 4905~~	~~3~~
~~General Microbiology~~	~~MCB 3020~~	~~3~~
~~Cell Biology~~	~~PCB 3023~~	~~3~~

Commented [MC3]: These courses are now incorporated into tables below

Minimum one of the following:		
General Microbiology & Lab	MCB 3020 & 3020L	3 & 1
Genetics	PCB 3063	4
Cell Biology	PCB 4023	3
Biological bases of behavior	PSB 3002	3

Minimum one of the following:		
Directed Independent Study CHM 4905 (1-3)	CHM 4905	1-3
Science Internship Course	IDS 3941	1-3
CMBB Research Seminar	BSC 4932	1

Additional courses for Pre-Professional majors:
Required course

Biodiversity	BSC 1011	3
Biodiversity Lab	BSC 1011	1

Suggested electives

Human Morph & Function 1 & Lab or Comparative Vertebrate Morph & Lab	PCB 3703 & PCB 3703L or ZOO 4690 & ZOO 4690L	3 & 1
Human Morph & Function 2 & Lab or Comparative Animal Physiology & Lab	PCB 3704 & 3704L or PCB 4723 & PCB 4723L	3 & 1

Comparative Animal Behavior	CBH 4024	3
Medical Shadowing Internship	IDS 3940	1