



BACHELOR OF SCIENCE  
**Chemistry**



SCHOOL OF  
ARTS AND SCIENCES

## PROGRAM DESCRIPTION

A Bachelor of Science in Chemistry will provide all dedicated students the opportunities to develop and continue critical thinking skills, become scientifically literate, and engage in hands-on experiential learning.

## CAREER OPPORTUNITIES

Myriad careers are available to students who have applied themselves to academic achievements. Graduates have become medical doctors, pharmacists, research scientists in all areas of science, educators, policy makers in environmental issues, dentists, and health care providers. Upon completion, graduates can earn a graduate degree to increase both their income and professional standing.

## DEGREE CHECKLIST

FRESHMAN			
Prefix	Course No.	Course	Credits
CHE	110	General Chemistry I	4
CHE	111	General Chemistry I Lab	1
MAT	201	Calculus I	3
ENG	101	College Writing I	3
FMU	101	University 101	2
REA	101	Critical Thinking/Reading	3
<b>TOTAL - 1<sup>st</sup> SEMESTER</b>			<b>16</b>
CHE	112	General Chemistry II	4
CHE	113	General Chemistry II Lab	1
BIO	130	Principles Of Biology I	3
BIO	131	Principles Of Biology I Lab	1
MAT	202	Calculus II	3
ENG	102	College Writing II	3
NSC	102	Critical Thinking Health/Natural Science	2
<b>TOTAL - 2<sup>nd</sup> SEMESTER</b>			<b>17</b>

SOPHOMORE			
Prefix	Course No.	Course	Credits
MAT	301	Calculus III	3
CHE	214	Quantative Analysis	3
CHE	215	Quantative Analysis Lab	1
CHE	210	Organic Chemistry I	3
CHE	211	Organic Chemistry I Lab	1
COM	103	Intro To Public Speaking	3
<b>TOTAL - 5<sup>th</sup> SEMESTER</b>			<b>16</b>
CSC		Computer Science Elective	3
MAT	302	Multivariable Calculus	3
CHE	212	Organic Chemistry II	3
CHE	213	Organic Chemistry II Lab	1
CHE	224	Environmental Chemistry	3
CHE	225	Environmental Chemistry Lab	1
REL	101	Intro to Religion	3
<b>TOTAL - 4<sup>th</sup> SEMESTER</b>			<b>16</b>

JUNIOR			
Prefix	Course No.	Course	Credits
		Social Science Req	3
CHE	360	Physical Chemistry I	3
CHE	361	Physical Chemistry I Lab	1
PHY	250	Physics w/Calculus I	4
PHY	251	Physics w/Calculus I Lab	1
	201	Foreign Language Requirement	3
<b>TOTAL - 5<sup>th</sup> SEMESTER</b>			<b>15</b>
CHE	362	Physical Chemistry II	3
CHE	363	Physical Chemistry II Lab	1
PHY	252	Physics W/Calculus II	4
PHY	253	Physics W/Calculus II Lab	1
MAT	205	Probability & Statistics	3
	202	Foreign Language Requirement	3
<b>TOTAL - 6<sup>th</sup> SEMESTER</b>			<b>15</b>

SENIOR			
Prefix	Course No.	Course	Credits
CHE	460	Advanced Inorganic Chemistry	3
CHE	461	Advanced Inorganic Chemistry Lab	1
		African American History Requirement	3
CHE	380	Immunochemistry	3
CHE	381	Immunochemistry Lab	1
NSC	452	Senior Seminar	2
<b>TOTAL - 7<sup>th</sup> SEMESTER</b>			<b>13</b>
		Elective	3
CHE	430	Biochemistry	3
CHE	431	Biochemistry Lab	1
NSC	453	Senior Project	1
		Humanities Requirement	3
		Elective	3
<b>TOTAL - 8<sup>th</sup> SEMESTER</b>			<b>14</b>

For more information please contact the School of Arts and Sciences at 305.623.1402 and SOAS@fmuniv.edu.