

## CHEMISTRY MAJOR CURRICULUM AT TUSKEGEE UNIVERSITY

<b>Freshman Year</b>					
<b>1<sup>st</sup> Semester</b>			<b>2<sup>nd</sup> Semester</b>		
<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>	<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>
CHEM 231	General Chemistry I	4	CHEM 232	General Chemistry II	4
CHEM 233	General Chemistry Lab I	1	CHEM 234	General Chemistry Lab II	1
<sup>1</sup> ENGL 101	English	3	<sup>1</sup> ENGL 102	English	3
HIST 103	History	3	HIST 104	History	3
<sup>2</sup> MATH 207	Calculus I	4	MATH 208	Calculus II	4
UNIV 101	Orientation	1	UNIV 102	Orientation	1
PHED	Physical Education	1	PHED	Physical Education	1
TOTAL		17	TOTAL		17

<b>Sophomore Year</b>					
<b>1<sup>st</sup> Semester</b>			<b>2<sup>nd</sup> Semester</b>		
<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>	<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>
CHEM 237	Inorganic Chemistry	3	CHEM 307	Quantitative Analysis	3
CHEM 238	Inorganic Chemistry Lab	1	CHEM 308	Quantitative Analysis Lab	2
PHYS 310	General Physics I	3	CHEM 320	Organic Chemistry I	3
PHYS 313	General Physics Lab I	1	CHEM 322	Organic Chemistry I Lab	2
			PHYS 311	General Physics II	3
MATH 209	Calculus III	4	PHYS 314	General Physics Lab II	1
Elective	Social/Behavioral Sciences	3	Elective	Humanities/Fine Arts	3
TOTAL		15	TOTAL		17

<b>Junior Year</b>					
<b>1<sup>st</sup> Semester</b>			<b>2<sup>nd</sup> Semester</b>		
<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>	<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>
CSCI 205 or CSCI 229	Computer Science	3	CHEM 402	Physical Chemistry II	3
CHEM 401	Physical Chemistry I	3	CHEM 402	Physical Chemistry II Lab	2
CHEM 403	Physical Chemistry Lab I	2	2d Option	Lecture or Lecture/Lab	4
2d Option	Lecture or Lecture/Lab	4	Elective	Humanities/Fine Arts	2-3
CHEM 321	Organic Chemistry II	3	Elective	Social Science/Humanities	3
CHEM 323	Organic Chemistry II Lab	2	CHEM 399	Undergraduate Research	1-3
TOTAL		17	TOTAL		15-18

<b>Senior Year</b>					
<b>1<sup>st</sup> Semester</b>			<b>2<sup>nd</sup> Semester</b>		
<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>	<b>COURSE</b>	<b>DESCRIPTION</b>	<b>CREDIT</b>
<sup>3</sup> Elective	Advanced Chemistry	1-3	<sup>3</sup> Elective	Advanced Chemistry	1-3
<sup>3</sup> CHEM 541	Instrumental Analysis	3	<sup>3</sup> CHEM 513	Advanced Inorganic	3
2d Option	Lecture or Lecture/Lab	4	Elective	Fine Arts/Humanities	3
CHEM 551	Chemistry Seminar	1	2d Option	Lecture or Lecture/Lab	4
Elective	Social/Behavioral Sciences	3	CHEM 552	Chemistry Seminar	1
CHEM 499	Undergraduate Research	1-3	<sup>4</sup> Elective	Technical Elective	3
TOTAL		13-17	TOTAL		15-17

<sup>1</sup> - A minimum grade of "C" is required

<sup>2</sup> - Initial mathematics placement will be determined by ACT/SAT scores

<sup>3</sup> - Courses only required for students completing the ACS. Approved Degree.

For certification by the American chemical Society, a student must pass CHEM 513, CHEM 541, the equivalent of 3 semester hours of biochemistry and an additional six credit hours of advanced chemistry (e.g., undergraduate research and/or specified 500-level courses). A student may choose to take six credit hours of advanced physics or six credit hours of advanced mathematics or a combination of these subjects as a replacement for advanced chemistry

<sup>4</sup> - If necessary, College approved electives required to complete the 120 semester hours required for graduation