

**SECOND-OPTION**

ver. Sept. 2013

The curriculum for the chemistry major at Tuskegee University requires a second-option in one of the following four areas: biology/biochemistry; environmental science; materials science; or mathematics. Twelve credits must be completed in the second-option, as indicated below.

**Biology/Biochemistry**

Course	Credit Hrs.
BIOL 230 (Cell Biology)	3
BIOL 231 (Cell Biology Lab)	1
*CHEM 360 (Biochemistry Of Cell Regulation)	3
*CHEM 361 (Biochemistry Of Cell Regulation Lab)	1
*CHEM 561 (Biochemistry I)	3
*CHEM 562(Biochemistry Lab I)	1
*CHEM 563 (Biochemistry II)	3
*CHEM 562(Biochemistry Lab II)	1

\*After completing BIOL 230/231 (4 credit hours), students may complete requirements for this option(for a total of 12 credit hours) through one of the following:

- CHEM 360/361; CHEM 563/564; 8 hours**
- CHEM 561/562; CHEM 563/564; 8 hours**

**Environmental Science:**

Course	Credit Hrs
1ESC 210 (General Soil Science)	4
1ESC 404 (Environmental Science)	3
1ESC 504 (Environmental Science II)	3
1ESC 515 (Water Chemistry)	3

**Materials Science:**

Course	Credit Hrs.
MENG 211 (Statics)	3
MENG 310 (Experimental Mechanics Lab)	2
MENG 316 (Strength of Materials)	3
MENG 318 (Materials Engineering)	3
MENG 319 (Advanced Materials Lab.)	1

**Mathematics:**

*Course	Credit Hrs.
MATH 307 (Differential Equations)	3
MATH 407 (Linear Algebra)	3
MATH 461 (Engineering Math)	3

\*Plus one of the following: Modern Algebra - MATH 408 (3 cr.); Intro to Appl Statistics - MATH 504 (3 cr.); Advanced Calc I - MATH 505 (3 cr.).