

**Major in Chemistry (BS)**  
**Medical Laboratory Science Option**  
120 hours

**University Requirement** – 2 hours

GSTD            1002            Freshman Seminar

**General Education** – 24 hours (Mathematics, natural science and physical science courses are included in the major.)

**Chemistry** – 17 hours

CHEM            1501            Background and Strategies in Chemistry (BASIC)  
CHEM            1023/1021        University Chemistry I/Lab  
CHEM            1123/1121        University Chemistry II/Lab  
CHEM            3003/3001        Organic Chemistry I/Lab

Select 4 hours from the following:

CHEM            2012/2001        Analytical Chemistry I/Lab  
CHEM            3103/3101        Organic Chemistry II/Lab  
CHEM            3073/3071        Biochemistry I/Lab

**Biology** – 16 hours

BIOL            1203/1201        Principles of Biology I/Lab  
BIOL            1213/1211        Principles of Biology II/Lab  
BIOL            2063/2061        Anatomy and Physiology I/Lab  
BIOL            3032/3022        General Microbiology/Lab

**Mathematics** – 6 hours

MATH            1023            College Algebra  
Plus a three-hour statistics course or higher level math course

**Electives** – 16 hours

Recommended electives include courses in chemistry and biology (consult with advisor)

**Clinical/Professional Program** – 39 hours

39 hours (including satisfactory completion of minimum of 12 months clinical training and course work at a cooperative accredited medical technology program)

No minor is required in this plan.

## Major in Chemistry (BS) – Medical Laboratory Science Option

### Suggested Plan of Study

2018-2019 Catalog

Fall - Semester 1		Spring - Semester 2	
CHEM 1501 Background and Strategies in Chemistry (BASIC)	1	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
MATH 1023 College Algebra	3		
GSTD 1002 Freshman Seminar	2		
<b>Total Semester Hours</b>	<b>16</b>	<b>Total Semester Hours</b>	<b>13</b>
Fall - Semester 3		Spring - Semester 4	
World Literature I/II (ENGL 2213 or ENGL 2223)	3	Statistics or higher level Mathematics	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab or CHEM 3073/3071 Biochemistry I/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3
<b>Total Semester Hours</b>	<b>14</b>	<b>Total Semester Hours</b>	<b>14</b>
Fall - Semester 5		Spring - Semester 6	
BIOL 2063/2061 Anatomy & Physiology I/Lab	4	BIOL 3032/3022 General Microbiology/Lab	4
BIOL or CHEM Elective	4	BIOL or CHEM Elective	4
BIOL or CHEM Elective	4	BIOL or CHEM Elective	4
<b>Total Semester Hours</b>	<b>12</b>		<b>12</b>

Total hours required for major – 120

PLUS Clinical/Professional Program – 39 hours (including satisfactory completion of minimum of 12 months clinical training and course work at a cooperative accredited Medical Technology program).

\*Note: Must have six hours of history/government. Three hours must be World History I or II. Three hours must be U.S. History I, U.S. History II or American Government: National.