

**Total Hours Needed for Graduation: 122**

**BG PERSPECTIVE (BGP) REQUIREMENTS:**

Course \_\_\_\_\_ Credits \_\_\_\_\_

**Must complete at least 1 course in each of the following:**

English Composition and Oral Communication  
\_\_\_\_\_

Quantitative Literacy  
\_\_\_\_\_

**Must complete at least 2 courses in each of the following:**

Humanities and the Arts  
\_\_\_\_\_  
\_\_\_\_\_

Natural Sciences - at least one Lab Science required  
\_\_\_\_\_  
\_\_\_\_\_

Social and Behavioral Sciences  
\_\_\_\_\_  
\_\_\_\_\_

**Complete total required BGP credit hours by selecting courses from any of the above categories:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**UNIVERSITY REQUIREMENTS**

**Note:** Designated courses in the Humanities and the Arts, and the Social and Behavioral Sciences domains may be used to fulfill both a BGP requirement and one of the following university requirements:

Cultural Diversity in the U.S. \_\_\_\_\_

International Perspective \_\_\_\_\_

Composition Requirement:

\_\_\_\_\_ WRIT 1120 Research Writing \_\_\_\_\_

*Total BGP Credits: Must be at least 36*

**COMPUTATION AND MATH (2 COURSES)**

3 \_\_\_\_\_ MATH 1150 **or** STAT 2000

Grade of "C" or better required in Math

\* Prerequisite for CHEM 1250:

**1)** HS Chemistry or CHEM 1090/1100, **and**

**2)** MATH 1220 or MATH 1230 or MATH 1260 or MATH 1280 or MATH 1310 or MATH 1340 or math placement score of 41 or higher.

**REQUIRED COURSES (44-46 hours)**

**Grade of "C" or better required**

- 3 \_\_\_\_\_ AHS 4010: Issues in Health Care
- 4 \_\_\_\_\_ BIOL 2040: Concepts in Biology I
- 4 \_\_\_\_\_ BIOL 2050: Concepts in Biology II
- 4 \_\_\_\_\_ BIOL 3140/3150: Microbiology for Health Professions
- 4 \_\_\_\_\_ BIOL 3320: Anatomy and Physiology II
- 4 \_\_\_\_\_ BIOL 3500: General Genetics
- 3 \_\_\_\_\_ BIOL 4080: Molecular Biology **or**  
BIOL 4210: Molecular Biotechnology
- 5 \_\_\_\_\_ CHEM 1230/1240: General Chemistry I\*
- 5 \_\_\_\_\_ CHEM 1270 & 1280 General Chemistry II
- 4-5 \_\_\_\_\_ CHEM 3060: Organic Chemistry **or**  
CHEM 3410: Organic Chemistry
- 4-5 \_\_\_\_\_ CHEM 3080 & 3090: BioChemistry **or**  
CHEM 3440 & 3460: Org Chem & Lab

**CORE PROGRAM REQUIRED COURSES (50-52 hours)**

**Grade of "C" or better required**

- 2 \_\_\_\_\_ MLS 2010: Orientation to Medical Laboratory Science
- 4 \_\_\_\_\_ MLS 4110/4120: Diagnostic Immunology I
- 4 \_\_\_\_\_ MLS 4130: Immunohematology I
- 2 \_\_\_\_\_ MLS 4140: Immunohematology I Lab
- 3 \_\_\_\_\_ MLS 4210: Hematology I
- 2 \_\_\_\_\_ MLS 4220: Hematology I Lab
- 2 \_\_\_\_\_ MLS 4230: Hematology II
- 3 \_\_\_\_\_ MLS 4300: Diagnostic Microbiology I
- 3 \_\_\_\_\_ MLS 4310: Diagnostic Microbiology II
- 2 \_\_\_\_\_ MLS 4320: Diagnostic Microbiology II Lab
- 1 \_\_\_\_\_ MLS 4360: Clinical Virology
- 4 \_\_\_\_\_ MLS 4410: Clinical Chemistry I
- 2 \_\_\_\_\_ MLS 4420: Clinical Chemistry I Lab
- 2 \_\_\_\_\_ MLS 4510: Analysis of Body Fluid
- 1 \_\_\_\_\_ MLS 4650: Laboratory Management and Education
- 1-3 \_\_\_\_\_ MLS 4800: Clinical Research
- 12 \_\_\_\_\_ MLS 4920: Clinical Practicum

**ELECTIVES (If needed to reach 122 hours)**

\_\_\_\_\_  
\_\_\_\_\_

Students who enter the degree program as freshman can complete this curriculum in 8 semesters, plus one summer term between the junior and senior year. The senior year is thus comprised of 12 months of full-time study which includes a clinical practicum.

Students transferring from another university or from another degree program and/or requiring developmental math may require more time in order to complete the prerequisite "required courses" portion.

Students transferring into this program from another school who have earned previous credit in basic medical laboratory science courses not listed on this checksheet, including MLS 2220 and MLS 2510, should consult with the department.

The Department Chair must give approval for a student to accept a position in a program other than the BGSU University – Based Program. The student can then register for the MLS 4000 level courses to be conducted at the hospital-based program (See Hospital Based Requirements below).

Application for professional portion (end of Junior year) date applied:  
\_\_\_\_\_ to Department Chair.

Admission: \_\_\_\_\_ Conditional Admission: \_\_\_\_\_

Alternate Admission: \_\_\_\_\_ Not admitted: \_\_\_\_\_

GPA after Junior Year must be 2.5 to apply for Clinical Laboratory Studies.