

West Liberty University/Medical Laboratory Science
Curriculum - BS

General Studies credits = 38

Composition: 3-6 hours

English 101 College composition (3) &
English 102 College composition (3) or
English 103 Accelerated College Comp – (3)

Communications: 3 hours

COM 101 Fundamentals of Oral Communication (3
hours)

Quantitative Reasoning (4-5 hours)

Math 130 Algebra

Applied Reasoning (3 hours)

COM 203, ECON 103, FIN 131, LING 150,
PHIL 210, PSYC 101

Science Reasoning (4 hours)

BIO 124/125 Biological Principles & Lab

History (3 hours) choose one. 3 hours

History: HIST 103,104,210,211

Literature: choose one. 3 hours

Literature: ENG 202,204,205,214,215

Fine Arts: choose one. 3 hours

Fine Arts: ART 100,140,341,343 MUS 130,
132,133,134,351, THE 100, 300

Humanities and Languages: one. 3 hours

PHIL 201,205, REL 250,335 Any FREN, any SPAN
SPA252

**Social Sciences (Geography, Political Science
or Sociology): choose 6 hours from the
following:**

Group I: GEO 205,206,
Group II: POLS 101, 201,202
Group III: SOC 150 SWK 201

Required Support Courses: 22 – 24 hours

MATH 160 Intro to Statistics
CHEM 110/111 Chemistry I & Lab 4
CHEM 112/113 Chemistry II & Lab 4
CHEM 340/341 Organic with Lab 4
BIO 212/214 Anatomy & Physiology 4
BIO 216 Microbiology 3

Medical Laboratory Science credits= 60

Optional:

CLS 105 MLS survey (Freshman only) 1

Required MLS courses:

CLS 210 Introduction to MLS – Sophomore 3
CLS 220 MLS Pathophysiology – Sophomore 2

Total: 5

Junior year Fall Semester:

CLS 300 Clinical Hematology I 4
CLS 301 Clinical Hematology I Lab 1
CLS 340 Clinical Biochemistry I 3
CLS 341 Clinical Biochemistry I Lab 1
CLS 360 Clinical Microbiology I 3
CLS 361 Clinical Microbiology I Lab 2
CLS 380 Clinical Immunology Serology 3
CLS 381 Clinical Immunology Lab 1

Total: 18

Junior Year Spring Semester:

CLS 302 Clinical Hematology II 3
CLS 320 Analysis of Body Fluids 3
CLS 321 Analysis of Body Fluids 1
CLS 342 Clinical Biochemistry 2
CLS 372 Clinical Microbiology II 3
CLS 373 Clinical Microbiology II Lab 1
CLS 375 Immunohematology 3
CLS 376 Immunohematology 1

Total: 17

Senior Year Fall Semester Clinicals 8

Clinical Rotations: 411,441,461,471,483
(An online GE courses could be taken here. 5)

Senior Year Spring Semester

CLS 400 Comprehensive Review 4
CLS 420 Lab Management 1
CLS 490 Research 2
CLS 415 MLS Molecular 3
CLS 416 MLS Molecular Lab 2

Total: 12