

**DEPARTMENT OF BIOLOGICAL SCIENCES
DEGREE REQUIREMENTS (411)
BACHELOR OF SCIENCE DEGREE/Clinical Sciences**

I. GENERAL EDUCATION REQUIREMENTS (40 cr. hrs)

Area I: Communication & Mathematical Skills (8 cr. hrs)

- θ ____ ENG 101 ____ ENG 102
θ Math Series (taken in curriculum – see next page)

Area II: Cultural-Social Foundations (8 cr. hrs) (one course from each group)

- θ ____ History (CLS150, HST 101, 102, 103)
θ ____ The Non-Western World (CST 2XX, RST 2XX, CSE 250, HLT 202, TSE 260, SW 272, URS 200)

Area III: Human Behavior (8 cr. hrs) (select 2 courses from different categories)

- θ ____ Economics (EC 200, 290)
θ ____ Political Sciences (PLS 200)
θ ____ Psychology (PSY 105)
θ ____ Sociology (SOC 200, 205, WMS 200)

Area IV: Human Expression (select one course - 4 cr. hrs)

- θ ____ Great Books (PHL 204, REL 204, ENG 204, CLS 204)
θ ____ Fine & Performing Arts (ART 214, MUS 214, MUS 290, TH 214)

θ **Additional Courses from Areas II, III and IV (8 cr. hrs.)**

Area V: Natural Sciences (taken in curriculum – Dept. Requirements)

Area VI: College Component (one course - 4 cr. hrs)

- θ ____ EES 260, PSY 110, SM 101 OR SM 205

II. DEPARTMENTAL REQUIREMENTS (38 cr. hrs)

- θ BIO 112-4 ____ Cell Biology
θ BIO 210-4 ____ Molecular Biology
θ BIO 211-4 ____ Genetics (may be substituted with BIO 302 or 421)
θ BIO 213-3 ____ Molecular/Cell Lab
θ ANT 312-5 ____ Anatomy & Physiology III
θ BIO 443-5 ____ Histology
θ BIO 476-2 ____ Parasitology
θ BIO 477-3 ____ Parasitology Lab
θ M&I 220-5 or
 BIO 312-5 ____ Microbiology
θ M&I 426-3 ____ Basic Immunology

III. REQUIRED SUPPORTING COURSES (61.5 cr. hrs)

Area A: Chemistry (40.5 cr. hrs)

Inorganic Chemistry

- θ CHM 121-3 ____ CHM 125-2 ____ θ CHM 211-4 ____ CHM 215-2 ____
θ CHM 122-3 ____ CHM 126-2 ____ θ CHM 212-4 ____ CHM 216-2 ____
θ CHM 123-3 ____ CHM 127-2 ____ θ CHM 213-4 ____ CHM 217-2 ____

Organic Chemistry

Analytical Chemistry

- θ CHM 312/314-7.5 ____

Area B: Biochemistry (4 cr. hrs)

- θ BMB 427-4 ____

Area C: Computer Science (4 cr. hrs)

- θ CS 205-4 ____

Area D: Mathematics Series (13 cr. hrs)

- θ MTH 128-5 ____ θ STT 264-4 ____ θ STT 265-4 ____

IV. CLINICAL PROGRAM REQUIREMENTS (60 cr. hrs)

- θ CL 420-3 ____ Orientation to CLS
θ CL 422-2 ____ Laboratory Management
θ CL 423-2 ____ Clinical Pathology Seminar
θ CL 431-3 ____ Urine & Body Fluid Analysis
θ CL 441-4 ____ Hematology
θ CL 442-2 ____ Advanced Hematology
θ CL 443-5 ____ Clinical Hematology Practicum
θ CL 451-2 ____ Principles of Hemostasis
θ CL 461-4 ____ Clinical Chemistry
θ CL 462-3 ____ Advanced Clinical Chemistry
θ CL 463-5 ____ Clinical Chemistry Practicum
θ CL 471-5 ____ Diagnostic Microbiology/Parasitology
θ CL 472-2 ____ Advanced Diagnostic Microbiology
θ CL 473-5 ____ Clinical Microbiology Practicum
θ CL 481-4 ____ Immunology/Parasitology
θ CL 491-3 ____ Immunohematology
θ CL 492-2 ____ Advanced Immunohematology
θ CL 493-4 ____ Clinical Transfusion Medicine Practicum

V. In the Major Writing Intensive Component – 2 Courses

TOTAL CREDIT HOURS REQUIRED: 199.5

** All Required courses must be a grade of C or better for graduation credits

Residence Requirements

A minimum GPA of 2.0; a minimum of 45 credit hours must be earned at Wright State University; at least 15 of the last 45 hours of credit must be earned at Wright State; a minimum of 30 hours of courses numbered 300 or above must be earned at Wright State; completion of a minimum of 183 hours in approved courses

Course	Fall	Winter	Spring	Summer
BIO 112		4	4	
BIO 210	4			4
BIO 211		4		4
BIO 213	3	3	3	
BIO 443		5		
BIO 476/477			5	
M&I 220	5		5	
M&I 426	3			

Departmental requirements must be passed with a “C” or above

Cumulative GPA of at least 2.5 required for consideration in the CLS Program



**Department of Biological Sciences
Bachelor of Science/Clinical Laboratory Sciences**

Department Office
235 BH

Phone: (937)775-4226

Fax: (937)775-3320

Web site: <http://www.wright.edu/biology>

Director of CLS program:

Cheryl Conley

cheryl.conley@wright.edu

937-775-2306

CLS Advisor

Beverly Schieltz

Beverly.schieltz@wright.edu

937-775-2712

Biology Advisors:

Jacqui Neal: jacqueline.neal@wright.edu

Dr. Patti Roberts: patricia.roberts@wright.edu

Courtney Smith: courtney.smith@wright.edu