

THE BSCLS DEGREE

Ohio Northern University offers a Bachelor of Science degree in Clinical Laboratory Science (BSCLS). The nationally accredited program combines a strong science curriculum with a community-partnered clinical component that prepares graduates to pursue career opportunities in various laboratory settings including medical, research, industrial, forensic, and public health. Graduates may also choose to continue their education in graduate school. Students pursuing the BSCLS degree are expected to complete a minimum of (a) 56 quarter hours of general education coursework, (b) 47 quarter hours of biology prerequisites, (c) 24 quarter hours of chemistry cognates, and (d) 62 quarter hours of clinical laboratory science core coursework. Students are encouraged to include science and general electives as time and scheduling permit. Full-time students can complete the degree in 13 quarters (four years). The last year of study requires that students apply for admission to and complete the *clinical year program*.

The Clinical Year Program The West Central Ohio Clinical Laboratory Science (WCOCLS) program is an admission-restricted one comprising the four quarters, end-year experience for those pursuing the BSCLS degree or Post Baccalaureate certificate. Applicants, who meet admission requirements and who are admitted to the program, spend the first two quarters completing CLS-specific coursework in the Department of Biological and Allied Health Sciences. The second two quarters represent the clinical phase during which students, under supervision of clinical instructors at program affiliates*, learn to apply the theory and principles of clinical laboratory science to real world practice in accredited clinical laboratories. Upon satisfactory completion of the prescribed course of study, students are eligible to seek professional certification from the American Society for Clinical Pathology (ASCP) and/ or the National Certification Agency for Laboratory Personnel (NCA).

Clinical Affiliates*

- Aultman Hospital – Canton, OH
- Bluffton Hospital – Bluffton, OH
- Hardin Memorial Hospital – Kenton, OH
- *Lima Memorial Hospital, Lima, OH*
- New Vision Medical Laboratories, Lima, OH
- Wilson Memorial Hospital, Sydney, OH
- Wright Patterson Air Force Base - WPAFB, OH
 - Air Force Research Laboratory, Human Effectiveness Directorate
 - Hospital Medical Center

Checklist for the BSCLS Degree (Minimum 189 credits)

General Education Core (56) Credits

_____	English 110, 111 and 204	12
_____	Communication 211 <i>or</i> 225	4
_____	History 110 <i>or</i> 111	4
_____	Religion 1XX	4
_____	Ethics (PHIL 238 or 240)	4
_____	Psychology 100	4
_____	Fine Arts 1XX	4
_____	Non-Western Culture	4
_____	Mathematics (MATH 120 or above) & Statistics 1XX	8
_____	Computer Science Course (No web design)	4
_____	Physical Education (Fitness, Life Skills, Wellness)	3
_____	AASG 300 Job & Graduate School Search Techniques	1

Biology Core (56) Credits

_____	BIOL 121 General Biology	4
_____	BIOL 122 General Zoology	4
_____	BIOL 124 Introduction to Human Anatomy and Histology	4
_____	BIOL 195 Orientation	1
_____	BIOL 210 Introductory Genetics	4
_____	BIOL 217 Introduction to Molecular Biology	4
_____	BIOL 301 Development Anatomy or BIOL 302 Human Anatomy	4
_____	BIOL 303 Histology or BIOL 343 Histological Techniques	3 or 4
_____	BIOL 311 Microbiology	4
_____	Physiology (200 level or above)	8 - 15
_____	BIOL 351 Cell Biology	4
_____	BIOL 497 Research	3
_____	BIOL 494 Biology Senior Seminar	1

Chemistry (24) Credits

_____	CHEM 171 – 173 Introductory Chemistry	15
_____	Additional Chemistry Courses, 200 – 400 level	9

Clinical Laboratory Science Core (62) Credits

_____	CLS 460 Foundations of CLS	3
_____	CLS 461 Professional Practice & Development	3
_____	BIOL 462 Biological Fluids	3
_____	BIOL 463 Clinical Immunology	3
_____	BIOL 464 Hematology and Hemostasis	5
_____	CLS 465 Blood Banking and Transfusion Science	5
_____	CLS 466 Clinical Chemistry	4
_____	BIOL 467 Clinical Microbiology	5
_____	CLS 468 Clinical Laboratory Practicum Orientation	2
_____	CLS 469 Clinical Hematology Practicum	6
_____	CLS 470 Blood Banking Practicum	6
_____	CLS 471 Clinical Chemistry Practicum	6
_____	CLS 472 Clinical Microbiology Practicum	6
_____	CLS 473 Immunology and Infectious Disease Practicum	3
_____	CLS 474 Case Studies in CLS	1
_____	CLS 490 Special Topics in Clinical Laboratory Science	1 - 3

Suggested Course Sequence for the BSCLS

YEAR 1* (53 quarter hours)					
<i>Fall Term</i>		<i>Winter Term</i>		<i>Spring Term</i>	
BIOL 121	4	BIOL 122	4	BIOL 124	4
AASG 190	1	ENGL 111	4	CHEM 173	5
CHEM 171	5	CHEM 172	5	RELG 1XX	4
ENGL 110	4	COMM 225	4	MATH 120	4
HIST 110	4	BIOL 195	1	AHPE Wellness	1
TOTAL	18		18		18

*Students must make application to a professional organization and show evidence of membership each year.

YEAR 2 (49 quarter hours)					
<i>Fall Term</i>		<i>Winter Term</i>		<i>Spring Term</i>	
BIOL 210	4	BIOL 217	4	BIOL 497	1
BIOL 301	4	BIOL 303	3	CHEM 253	4
CHEM 251	4	CHEM 252	4	ENGL 204	4
TECH 139	4	PSYC 100	4	Fine Arts 1XX	4
HPES 112	2	AHPE Fitness	1	STATS 1XX	4
TOTAL	18		16		17

YEAR 3 (53 quarter hours)					
<i>Fall Term*</i>		<i>Winter Term**</i>		<i>Spring Term</i>	
Course	Credit	Course	Credit	Course	Credit
Physiology	5	BIOL 311	4	Physiology	5
BIOL 497	1	Physiology	5	PHBS 375	4
<i>BIOL 315</i>	2	BIOL 351	4	<i>IBEC 100</i>	4
CHEM 311	4	<i>BIOL 362</i>	4	Non-West Culture	4
PHIL 238 or 240	4	BIOL 497	1	AASG 300	1
APHE Life Skills	1	BIOL 494	1		
TOTAL	17		19		18

*1) Student must apply for a summary of "Unfulfilled Requirements" from the ONU Arts & Sciences Dean's office. ** 2) Student initiates application process for admittance to clinical program.

YEAR 4 (Clinical: 62 – 64 quarter hours)							
<i>Summer Term</i>		<i>Fall Term***</i>		<i>Winter Term</i>		<i>Spring Term</i>	
Course	Credit	Course	Credit	Course	Credit	Course	Credit
CLS 460	3	BIOL 462	3	CLS 468	2	CLS 471	6
CLS 461	3	BIOL 464	5	CLS 469	6	CLS 472	6
CLS 463	3	BIOL 465	5	CLS 470	6	CLS 474	1
BIOL 467	5	CLS 466	4	CLS 473	3		
CLS 490	1 – 3						
TOTAL	15 - 17		17		17		13

***Student must apply for graduation. At spring commencement, student receives B. S. Clinical Laboratory Science.

^Courses in italic are electives.

MISSION STATEMENT

The mission of the West Central Ohio Clinical Laboratory Science (WCOCLS) Program is to educate students in the clinical laboratory sciences, preparing them to practice as ethical and competent professionals, and enabling them to meet whatever job-related challenges arise now and in the future.

WCOCLS Program Admission Requirements: B.S. in CLS Degree

The West Central Ohio Clinical Laboratory Science Program has an enrollment capacity of 8 students per year. The start date for the program is the first day of the summer quarter. Prospective students may submit applications anytime but not later than March 1st of the year for which an applicant seeks program admission. Applicants completing prerequisite coursework at the time of application may be considered for admission but, if selected (provisional admit), will be required to submit documentation (transcript or original grade report) of successful completion of the course(s) prior to the first day of class. Applicants selected for admission for a given year are notified by the Program Director by April 1st of that year.

Admission to WCOCLS program is criterion-based, competitive and dependent upon the recommendation of the WCOCLSP admissions committee. Admission standards for BSCLS degree students include:

- Submission of a completed application for admission (only completed applications are considered)
- Satisfaction of all applicable university and college admission requirements
- Satisfaction of all applicable degree requirements excluding CLS coursework
- Completion of all pre-clinical year coursework with a minimum of a "C" in each course
- A cumulative GPA of 2.80 (scale 4.00) with a science (biology, chemistry, physics, math) GPA of 3.00
- Demonstrated comprehension of and commitment to the profession

Program Contact Information

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Notice of Program Accreditation Status

The West Central Ohio Clinical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, Illinois 60631.