

CLINICAL LABORATORY SCIENCE, A.S.-B.S.

This is a suggested course plan. It is highly recommended that you meet regularly with your academic advisor to determine your course selection and progress toward graduation.

Students who transfer to UNC under the Comprehensive Articulation Agreement (CAA) have all lower-level General Education requirements completed, but must complete these requirements through transfer or UNC coursework: Global Language (<https://catalog.unc.edu/undergraduate/ideas-in-action/global-language/>), Research and Discovery (<https://catalog.unc.edu/undergraduate/ideas-in-action/research-discovery/>), Lifetime Fitness (<https://catalog.unc.edu/undergraduate/ideas-in-action/lifetime-fitness/>), Communication Beyond Carolina (<https://catalog.unc.edu/undergraduate/ideas-in-action/communication-beyond/>), Campus Life Experience (<https://catalog.unc.edu/undergraduate/ideas-in-action/campus-life-experience/>), and, where applicable, Supplemental General Education. Students who do not transfer in under the CAA should work closely with their advisor to determine which requirements apply to them for the IDEAs in Action General Education curriculum (<https://catalog.unc.edu/undergraduate/ideas-in-action/>).

This catalog also includes a complete list of requirements for the Clinical Laboratory Science B.S. degree (<https://catalog.unc.edu/undergraduate/programs-study/clinical-laboratory-science-major-bs/#requirementstext>).

North Carolina Community College

UGETC Curriculum

Code	Title	Hours
UGETC	English composition (ENG 111 + ENG 112 = UNC ENGL 105)	6
COM 231	Public Speaking (UNC COMM 113) ⁴	3
UGETC	Humanities/Fine Arts/Communication (1 additional course from a discipline other than communication; see UGETC list below)	3
UGETC	Social and Behavioral Sciences (2 courses from at least 2 different disciplines; see UGETC list below)	6
One of: ^{2,3}		4
MAT 172	Pre-calculus Trigonometry (UNC MATH 130 + MATH 110P) ^{2,5}	
MAT 271	Calculus I (UNC MATH 231 + MATH 129P + MATH 110P) ^{2,5}	
UGETC	Mathematics (see UGETC list below)	4
CHM 151	General Chemistry I (UNC CHEM 101/101L)	4
CHM 152	General Chemistry II (UNC CHEM 102/102L)	4
Total Hours		34

Additional General Education Courses

Code	Title	Hours
XXX 111	Foreign Language Level 1	3
XXX 112	Foreign Language Level 2	3
XXX 211	Foreign Language Level 3 ⁶	3

BIO 111	General Biology I (UNC BIOL 101/101L + BIOL 103) ^{1,3}	4
Total Hours		13

Other Required Hours

Code	Title	Hours
ACA 122	College Transfer Success (GENR ---)	1
BIO 250	Genetics (UNC BIOL 202) ^{2,3,7}	4
CHM 251 or CHM 263	Organic Chem I (UNC CHEM 261/ 262L) or Analytical Chemistry (UNC CHEM 241) ^{1,3,4,8}	4
Prerequisite Option: ^{2,5}		0-4
MAT 152	Statistical Methods I (UNC STOR 155) ^{2,5}	
PED 110	Fit and Well for Life (UNC LFIT 998) ⁴	2
Electives		0-3
Total Hours		14-15

Code	Title	Hours
Total Community College Hours		61-62

¹ Required in the major.

² Counts in the major.

³ Prerequisite for the major.

If students have questions about prerequisites for applying to the major, they may contact Tamara Mesko (tamara_mesko@med.unc.edu), administrative support specialist in the Office of Student Services, Department of Allied Health Sciences.

⁴ IDEAs In Action Requirements: COMM 113 fulfills COMMBEYOND, CHEM 262L fulfills RESEARCH, LFIT 998 fulfills LIFE-FIT.

⁵ Students can fulfill the prerequisite for the major with any one of MAT 172 (UNC MATH 130), MAT 271 (UNC MATH 231), or MAT 152 UNC STOR 155.

⁶ All NC Community College language courses numbered 211 are approved to transfer to UNC-Chapel Hill as a course that completes the GBLB-LANG IDEAs in Action requirement.

⁷ The biology prerequisite for the major includes BIOL 101/BIOL 101L and one additional biology course for a total of 7 credits. While BIOL 202 (BIO 250) is recommended, other biology courses can meet the prerequisite requirement. Biology courses that will transfer to UNC at the 200 level are recommended if the student does not take the recommended option. Course equivalencies can be searched on the admissions website (<https://admissions.unc.edu/transfer-credit/>).

⁸ The chemistry prerequisites for the major include CHEM 101/CHEM 101L, CHEM 102/CHEM 102L, and either CHEM 241/CHEM 241L or CHEM 261/CHEM 241L. If CHM 263 (CHEM 241) is not available, students have the option to take CHM 251 (CHEM 261/CHEM 262L) at the community college and/or take CHEM 241 in the summer prior to Semester 5 with CHEM 241L.

UNC-Chapel Hill

Summer Prior to Semester 5

Code	Title	Hours
CHEM 241L	Laboratory in Separations and Analytical Characterization of Organic and Biological Compounds ¹	1
Total Hours		1




Semester 5

Code	Title	Hours
CLSC 410 & 410L	Laboratory Mathematics and Basic and Molecular Laboratory Methods	3
CLSC 420 & 420L	Urinalysis and Body Fluids and Urinalysis Laboratory	2
CLSC 430	Biochemistry	3
CLSC 440 & 440L	Hematology I and Hematology I Laboratory	3
CLSC 450	Immunology	3
Total Hours		14

Semester 6

Code	Title	Hours
CLSC 442 & 442L	Hematology II and Hematology II Laboratory	4
CLSC 462 & 462L	Clinical Bacteriology and Clinical Bacteriology Laboratory	5
CLSC 470 & 470L	Clinical Chemistry and Clinical Chemistry Laboratory	5
CLSC 480 & 480L	Immunohematology and Immunohematology Laboratory	5
Total Hours		19

Semesters 7 & 8

Code	Title	Hours
Clinical Education: Senior clinical education takes place in UNC Hospitals' laboratories and other clinical laboratories in North Carolina. These laboratories are highly regarded in the field of laboratory medicine, and students have the opportunity to learn the most recent techniques in clinical laboratory science.		
Courses taken during fall or spring semester:		
CLSC 460	Special Pathogens	2
CLSC 460L	Parasitology and Mycology Laboratory	1
CLSC 540L	Clinical Hematology Laboratory	4
CLSC 542L	Clinical Hemostasis Laboratory	2
CLSC 550L	Clinical Immunology Laboratory	1
CLSC 560L	Clinical Microbiology Laboratory	4
CLSC 570L	Clinical Chemistry Laboratory Rotation	4
CLSC 580L	 Clinical Immunohematology Laboratory	4
CLSC 582L	Clinical Transplantation Medicine Laboratory	1
CLSC 620	Clinical Laboratory Management	2
CLSC 630	 Research Methods in Clinical Laboratory Science ²	2
CLSC 670	 Clinical Laboratory Science Educational Methods ²	2
Total Hours		29

¹ Prerequisite for the major.² IDEAs In Action Requirements: CLSC 630 fulfills RESEARCH, CLSC 670 fulfills COMMBEYOND.**UGETC Course List (A.S. Curriculum)**

Code	Title	Hours
English Composition (two courses)		6
ENG 111	Writing & Inquiry ¹	
ENG 112	Writing/Research in the Disciplines ¹	
Humanities/Fine Arts (two courses from at least two different disciplines)		6
ART 111	Art Appreciation (UNC GENR 111)	
ART 114	Art History Survey I (UNC ARTH 151)	
ART 115	Art History Survey II (UNC ARTH 152)	
COM 120	Introduction to Interpersonal Communication (UNC COMM 120), OR	
COM 231	Public Speaking (UNC COMM 113)	
DRA 111	Theatre Appreciation (UNC DRAM 116)	
ENG 231	American Literature I (UNC ENGL 128) ²	
ENG 232	American Literature II (UNC ENGL 128) ²	
ENG 241	British Literature I (UNC ENGL 120) ²	
ENG 242	British Literature II (UNC ENGL 121) ²	
MUS 110	Music Appreciation (UNC MUSC 141)	
MUS 112	Introduction to Jazz (UNC MUSC 145)	
PHI 215	Philosophical Issues (UNC PHIL 101) ²	
PHI 240	Introduction to Ethics (UNC PHIL 160) ²	
Social/Behavioral Science (two courses from at least two different disciplines)		6
ECO 251	Principles of Microeconomics (UNC GENR 119) ³	
ECO 252	Principles of Microeconomics (UNC GENR 119) ³	
HIS 111	World Civilizations I (UNC GENR 113)	
HIS 112	World Civilizations II (UNC GENR 113)	
HIS 131	American History I (UNC HIST 127)	
HIS 132	American History II (UNC HIST 128)	
POL 120	American Government (UNC POLI 100)	
PSY 150	General Psychology (UNC PSYC 101)	
SOC 210	Introduction to Sociology (UNC SOCI 101)	
Mathematics (select two courses)		8
MAT 171	Precalculus Algebra (UNC MATH 110P)	
MAT 172	Pre-calculus Trigonometry (UNC MATH 130 + MATH 110P)	
MAT 263	Brief Calculus (UNC MATH 152 + MATH 110P)	
MAT 271	Calculus I (UNC MATH 231 + MATH 129P + MATH 110P)	
MAT 272	Calculus II (UNC MATH 232 + MATH 110P)	
Natural Sciences (select 8 SCH from the following courses):		8
AST 151/151A	General Astronomy I and Lab (UNC ASTR 101/100L)	
BIO 110	Principles of Biology (UNC GENR 116)	
BIO 111 & 112	General Biology I & II (UNC BIOL 101/101L + BIOL 103 + BIOL 104)	
CHM 151 & 152	General Chemistry I & II (UNC CHEM 101/101L + CHEM 102/102L)	
GEL 111	Introduction Geology (UNC EMES 101/101L)	
PHY 110/110A	Conceptual Physics and Lab (UNC PHYS 101)	
PHYS 151 & 152	College Physics I & II (UNC PHYS 114 + PHYS 115)	

PHYS 251 & 252 General Physics I & II (UNC PHYS 118 + PHYS 119)

Total Hours **34**

IDEAs In Action Requirements not covered by the North Carolina Comprehensive Articulation Agreement that could be completed at the Community College:

COM 231 (UNC COMM 113) can fulfill COMMBEYOND; COM 120 (UNC COMM 120), CHM 251² (UNC CHEM 261 + CHEM 262L) or CHM 252² (UNC CHEM 262 + CHEM 262L) can fulfill RESEARCH, and PED 110 (LFIT 998) can fulfill LIFE-FIT.

¹ Students who complete both ENG 111 and 112 receive credit for UNC ENGL 100 + ENGL 105.

² Course may have prerequisite(s). Consult the North Carolina Community College Combined Course Library (<https://www.nccommunitycolleges.edu/academic-programs/combined-course-library/>) for most current information.

³ ECO 251 + 252 = UNC ECON 101 + UNC GENR 119.

Additional Resources

Applying to Carolina

- The Office of Undergraduate Admissions (<https://admissions.unc.edu/apply/types-of-applications/transfer/>) provides information about the application process for transfer students.

Advising and Community College Course Selection

- For UGETC, Pre-Major, Elective, or GEC course options, please refer to the Comprehensive Articulation Agreement transfer course list (<https://www.nccommunitycolleges.edu/academic-programs/college-transferarticulation-agreements/comprehensive-articulation-agreement-caa/>).
- Students should work with their community college academic advisor to ensure appropriate course selection for AA/AS degree completion.

Additional Resources

- To find out how your N.C. community college coursework will transfer to UNC, please view the transfer credit list (https://tes.collegesource.com/publicview/TES_publicview01.aspx?rid=ff81c5a2-3ec7-4b31-a7fb-04e2fd5f0345&aid=ca8ebc64-42ca-4a2d-b16b-f8f68bbb6767) for your community college campus.