

COMPUTER 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 Computer Science major, B.S. degree. (<https://catalog.unc.edu/undergraduate/programs-study/computer-science-major-bs/#requirementstext>)

North Carolina Community College

UGETC Curriculum

Code	Title	Hours
UGETC	English composition (ENG 111 + ENG 112 = UNC ENGL 105)	6
UGETC	Humanities/Fine Arts/Communication (2 courses from at least 2 different disciplines, see UGETC list below)	6
UGETC	Social and Behavioral Sciences (2 courses from at least 2 different disciplines; see UGETC list below)	6
MAT 271	Calculus I (UNC MATH 231 + MATH 129P + MATH 110P) ^{1,3}	4
MAT 272	Calculus II (UNC MATH 232 + MATH 110P) ¹	4
Select two courses from: ^{1,4}		8
AST 151 & AST 151A	General Astronomy I and lab I (UNC ASTR 101/100L) ²	
BIO 111	General Biology I (UNC BIOL 101/101L + BIOL 103) ²	
CHM 151	General Chemistry I (UNC CHEM 101/101L) ²	
GEL 111	Introduction Geology (UNC GEOL 101/101L) ²	
PHY 151	College Physics I (UNC PHYS 114) ²	
PHY 152	College Physics II (UNC PHYS 115) ²	
PHY 251	General Physics I (UNC PHYS 118) ²	
PHYS 252	General Physics I (UNC PHYS 119) ²	
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 ⁵	3
CSC 134 or CSC 151	C++ Programming (UNC COMP 110) or JAVA Programming (UNC COMP 110) ³	3
Total Hours		12

Other Required Hours

Code	Title	Hours
ACA 122	College Transfer Success (UNC GENR ---)	1
MAT 151 & MAT 151A	Statistics 1 (UNC STOR 155)	4
MAT 273	Calculus III (UNC MATH 233) ¹	4
Electives		6
Total Hours		15

Code	Title	Hours
Total Community College Hours		61

¹ Required in the major.

² Counts in the major.


³ Prerequisite for COMP 210 at UNC.

⁴ Required science courses for major. See major requirements (<https://catalog.unc.edu/undergraduate/programs-study/computer-science-major-bs/#requirementstext>) for the full list of eligible courses.

⁵ All N.C. Community College Language courses numbered 211 are approved to transfer to UNC–Chapel Hill as courses that complete the GLBL-LANG IDEAs in Action requirement.

UNC–Chapel Hill

Semester 5

Code	Title	Hours
COMP 283	 Discrete Structures ^{1, H}	3
COMP 210	Data Structures and Analysis ¹	3
MATH 347	Linear Algebra for Applications ¹	3
Minor course #1, Elective, or IDEAs in Action Requirement		3
Elective or IDEAs in Action Requirement		3
Total Hours		15

H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.


Semester 6

Code	Title	Hours
COMP 211	Systems Fundamentals ¹	3
COMP 301	Foundations of Programming ¹	3
COMP 455	Models of Languages and Computation ¹	3
STOR 435	Introduction to Probability ¹	3
or STOR 535	Probability for Data Science	
or BIOS 650	Basic Elements of Probability and Statistical Inference I	

Lifetime Fitness (<https://catalog.unc.edu/undergraduate/ideas-in-action/lifetime-fitness/>) 1

Minor course #2, Elective, or IDEAs in Action Requirement	3
Total Hours	16

Semester 7

Code	Title	Hours
COMP 311	Computer Organization ¹	3
COMP 550	 Algorithms and Analysis ¹	3
COMP ---	Computer science elective numbered COMP 420 or higher (1 course) ^{1,2,3}	3
Minor course #3, Elective, or IDEAs in Action Requirement	3	
Total Hours	12	

Semester 8

Code	Title	Hours
COMP ---	Computer science elective numbered COMP 420 or higher (2 courses) ^{1,2,3}	6
Minor course #4, Elective, or IDEAs in Action Requirement	3	
Minor course #5, Elective, or IDEAs in Action Requirement	3	
Total Hours	12	

Semester 9

Code	Title	Hours
COMP ---	Computer science elective numbered COMP 420 or higher (2 courses) ^{1,3,4}	6
Total Hours	6	

¹ Required in the major.

² Excluding courses for honors thesis, internships, independent study, and COMP 690.

³ The Computer Science Department at UNC has a registration policy in place to help ensure all majors are able to take the electives they need: All students are allowed to register for two COMP courses numbered 420 and above before any students are allowed to register for a third such course. This policy may necessitate transferring students to make use of a ninth semester to complete all major requirement. If seats are available, transfer students may be able to take more than two elective courses in semesters 7 or 8.

Transfer students (who transfer in the UNC–Chapel Hill equivalent of two or more semesters) may enroll in up to 10 total semesters and complete up to three areas of study (i.e., a secondary major and a minor or two minors). Additional degree requirement information (<https://catalog.unc.edu/undergraduate/degree-requirements/#requirementstext>).

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.