

# NC Community College Four-Year Pathway Plan

Schedule for Full-Time Students  
Pursuing AS Degree & transfer into Biochemistry (BS) at NCSU.  
(Placed Out Of All Developmental Courses)

**North Carolina Community College classes are listed below in bold with** the NC State degree requirements fulfilled listed next to the classes.

North Carolina State University **strongly recommends** students complete their Associate's degree prior to transferring to NCSU. Pathways are structured for students who have completed all requirements for their Associate's degree and **qualify for the CAA**.

NC COMMUNITY COLLEGE FIRST YEAR				
Fall Semester	Credit		Spring Semester	Credit
<b>ENG 111 - ENG 101: Academic Writing and Research</b>	3		<b>ENG 112 - GEP Requirement</b>	3
<b>COM 231 – GEP Requirement</b>	3		<b>MAT 172 – MA 108: Precalculus II, Departmental prerequisite</b>	4
<b>CHM 151 – CH 101 &amp; 102, General Chemistry &amp; Lab</b>	4		<b>CHM 152 – CH 201 &amp; 202, Quantitative Chemistry &amp; Lab</b>	4
<b>MAT 171 – MA 107: Precalculus I, Departmental prerequisite</b>	4		<b>UGETC Humanities/Fine Arts – GEP Requirement</b>	3
<b>ACA 122 - Free Elective</b>	1		<b>TOTAL CREDIT HOURS</b>	<b>14</b>
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			

Students must take ACA 122 in the first or second semester.

**Students may wish to take summer courses if available.**

NC COMMUNITY COLLEGE SECOND YEAR				
Fall Semester	Credit		Spring Semester	Credit
<b>MAT 271 – MA 141: Calculus I</b>	4		<b>MAT 272 – MA 241, Calculus II</b>	4
<b>CHM 251 – CH 221 &amp; CH 222: Organic Chemistry I &amp; Lab</b>	3		<b>CHM 252 – CH 223 &amp; CH 224: Organic Chemistry II &amp; Lab</b>	4
<b>PSY 150/SOC 210/POL 120 – GEP Social Sciences</b>	3		<b>HUM 110 – STS 214, GEP Interdisciplinary Perspectives</b>	3
<b>HIS 111,112,131 or 132 – GEP Humanities</b>	3		<b>UGETC Humanities or Social Science – HA 202, GEP Additional Breadth</b>	3
<b>BIO 111 – BIO 183: Cellular &amp; Molecular Biology</b>	4		<b>BIO 112 – BIO 181: Ecology, Evolution &amp; Diversity</b>	4
<b>TOTAL CREDIT HOURS</b>	<b>17</b>		<b>TOTAL CREDIT HOURS</b>	<b>18</b>

**THIS SHEET IS FOR ADVISING PURPOSES ONLY.** Students should work with their Advisor to determine course selections that will result in the greatest transferable credit, for the intended program, upon transfer to the four-year school.

**\*Note\*** 4-semester outline based upon no pre-requisites classes required.

# NC STATE UNIVERSITY

## Schedule of Courses for the Biochemistry (BS) (11BIOCHBS)

Before applying please consult the [Transfer Admission Review Standards](#) for admission into the College of Sciences.

Students may wish to reduce semester course loads during Junior Fall & Spring by enrolling in Physics I & II during the summer sessions.

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### NC STATE JUNIOR YEAR

Fall Semester	Credit		Spring Semester	Credit
BCH 103: Introduction to Biochemistry	1		BCH 451/452: Principles of Biochemistry & Experimental Biochemistry	6
Math Elective (MA 242 or ST 311)	3-4		ENG 331 or 333: Technical Writing/Communications	3
MB 351/352: General Microbiology & Lab	4		PY 208 or 212	4
GN 311: Principles of Genetics	4		Cell Biology or Physiology Elective	3
PY 205 or 211	4		<b>TOTAL CREDIT HOURS</b>	<b>16</b>
<b>TOTAL CREDIT HOURS</b>	<b>16-17</b>			

### Optional Summer Sessions I & II: PY 211 & PY 212, if not already completed

### NC STATE SENIOR YEAR

Fall Semester	Credit		Spring Semester	Credit
BCH 453: Biochemistry Gene Expression	3		CH 433 Physical Chemistry II or Advised Elective	3-4
BCH 454: Advanced Biochemistry Lab or Research Elective	4		BCH 455: Proteins and Molecular Mechanisms	3
CH 431 or CH 331: Physical Chemistry I or Intro Physical Chemistry	3-4		CH Lab Analysis Elective	3-4
Life Sciences Advised Elective	3		Free Elective or other course requirement to meet	3
Free Elective or other course requirement to meet	3		<b>TOTAL CREDIT HOURS</b>	<b>12-14</b>
<b>TOTAL CREDIT HOURS</b>	<b>16-17</b>			

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Minimum Credit Hours Required for Graduation:	122
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Hours Remaining in NC State Degree:	60-64
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- Students should seek academic advising to determine the best courses and sequence to meet their educational goals and degree requirements.
- Following the Pathway to Degree does not guarantee admission to NC State University or guarantee an AA degree or BA degree will be conferred.
- Please refer to NC State Undergraduate Admissions for more information on admission to NC State and the transfer of credits to NC State: <https://admissions.ncsu.edu/apply/transfers>