



## Associates in Science Pathway – Biotechnology UNCP

Fall Term (14 hours)	Spring Term (14 hours)	Summer Term (4 hours)
<ul style="list-style-type: none"> <li><input type="checkbox"/> ACA 122 – College Transfer Success</li> <li><input type="checkbox"/> ENG 111 – Writing and Inquiry</li> <li><input type="checkbox"/> MAT 171 – Precalculus Algebra</li> <li><input type="checkbox"/> PED 110 – Fit and Well For Life</li> <li><input type="checkbox"/> CHM 151 – General Chemistry I</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> ENG 112 – Writing/Research in the Disciplines</li> <li><input type="checkbox"/> MAT 172 – Precalculus Trigonometry</li> <li><input type="checkbox"/> HIS 111 – World Civilizations I</li> <li><input type="checkbox"/> CHM 152 – General Chemistry II</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> BIO 110 – Principles of Biology</li> </ul>
Fall Term (15 hours)	Spring Term (16 hours)	
<ul style="list-style-type: none"> <li><input type="checkbox"/> COM 231 – Public Speaking</li> <li><input type="checkbox"/> ENG 231 – American Literature I</li> <li><input type="checkbox"/> MAT 271 – Calculus I</li> <li><input type="checkbox"/> PHY 151 – College Physics I</li> <li><input type="checkbox"/> PED 111 – Physical Fitness I</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> PSY 150 – General Psychology</li> <li><input type="checkbox"/> ART 111 – Art Appreciation</li> <li><input type="checkbox"/> PHY 152 – College Physics II</li> <li><input type="checkbox"/> SOC 210 – Introduction to Sociology</li> <li><input type="checkbox"/> PHI 240 – Introduction to Ethics</li> </ul>	
<b>Required Prerequisite Courses</b>		
ACA 085-Improving Study Skills, CIS 070-Fundamentals of Computing, DRE-Integrated Reading and Writing 096, 097, 098 DMA-Developmental Mathematics 10, 20, 30, 40, 50, 065 *Placement Testing, SAT/ACT scores, and/or recent high school GPA may be used to satisfy required prerequisite courses <p style="text-align: center;"><b>This is a recommended pathway. Please see the reverse side for potential substitutions and options.</b></p>		

Associate in Science (A10400)

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status. Community college graduates must obtain a grade of “C” or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

**GENERAL EDUCATION (45 SHC)** The general education common course pathway includes study in the areas of English composition; humanities and fine arts; social and behavioral sciences; natural sciences and mathematics. **UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT** (All Universal General Education Transfer Component courses will transfer for equivalency credit.)

**English Composition (6 SHC)** The following two English composition courses are required. **ENG 111** Writing & Inquiry (3 SHC) **ENG 112** Writing/Research in the Disciplines (3 SHC)

Select one course from the following from each group (6 SHC) **Group 1: Humanities/Fine Arts** **ART 111** Art Appreciation (3 SHC) **ART 114** Art History Survey I (3 SHC) **ART 115** Art History Survey II (3 SHC) **MUS 110** Music Appreciation (3 SHC) **MUS 112** Introduction to Jazz (3 SHC) **Group 2: Communications** **COM 231** Public Speaking (3 SHC) **ENG 231** American Literature I (3 SHC) **ENG 232** American Literature II (3 SHC) **ENG 241** British Literature I (3 SHC) **ENG 242** British Literature II (3 SHC) **PHI 215** Philosophical Issues (3 SHC) **PHI 240** Introduction to Ethics (3 SHC)

**Social/Behavioral Sciences (6 SHC)** Select two courses from the following from at least two different disciplines: **ECO 251** Principles of Microeconomics (3 SHC) **ECO 252** Principles of Macroeconomics (3 SHC) **HIS 111** World Civilizations I (3 SHC) **HIS 112** World Civilizations II (3 SHC) **HIS 131** American History I (3 SHC) **HIS 132** American History II (3 SHC) **POL 120** American Government (3 SHC) **PSY 150** General Psychology (3 SHC) **SOC 210** Introduction to Sociology (3 SHC)

**Math (8 SHC)** Select two courses from the following: **MAT 171** Precalculus Algebra (4 SHC) **MAT 172** Pre-calculus Trigonometry (4 SHC) **MAT 263** Brief Calculus (4 SHC) **MAT 271** Calculus I (4 SHC) **MAT 272** Calculus II (4 SHC)

**Natural Sciences (8 SHC)** Select 8 SHC from the following course(s): **BIO 111** General Biology I (4 SHC) and **BIO 112** General Biology II (4 SHC) **CHM 151** General Chemistry I (4 SHC) and **CHM 152** General Chemistry II (4 SHC) **PHY 151** College Physics I (4 SHC) and **PHY 152** College Physics II (4 SHC) **PHY 251** General Physics I (4 SHC) and **PHY 252** General Physics II (4 SHC)

**ADDITIONAL GENERAL EDUCATION HOURS (11 SHC)** An additional 11 SHC of courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. Total General Education Hours Required: 45

<b>AST 151/151A</b>	<b>CHM 151</b>	<b>ECO 252</b>	<b>HIS 111</b>	<b>MAT 263</b>	<b>PHY 151</b>	<b>SOC 210</b>
<b>BIO 110</b>	<b>CHM 152</b>	<b>ENG 241</b>	<b>HIS 112</b>	<b>MAT 271</b>	<b>PHY 152</b>	<b>SPA 111</b>
<b>BIO 111</b>	<b>COM 231</b>	<b>ENG 242</b>	<b>HIS 131</b>	<b>MAT 272</b>	<b>POL 120</b>	
<b>BIO 112</b>	<b>ECO 251</b>	<b>GEO 111</b>	<b>HIS 132</b>	<b>PHY 110/110A</b>	<b>PSY 150</b>	

**OTHER REQUIRED HOURS (15 SHC)** Academic Transition (1 SHC) The following course is required: **ACA 122** College Transfer Success (1 SHC) An additional 14 SHC of courses should be selected from courses classified as pre-major, elective or general education courses within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. \*One semester hour of credit may be included in a 61 SHC associate in science program of study. The transfer of this hour is not guaranteed. Total Semester Hours Credit (SHC) in Program: 60-61\* Students must meet the receiving university’s foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

<b>ACC 120</b>	<b>BIO 110</b>	<b>CHM 151</b>	<b>ENG 114</b>	<b>HIS 236</b>	<b>MUS 151</b>	<b>PED 150</b>	<b>PSY 237</b>
<b>ACC 121</b>	<b>BIO 111</b>	<b>CHM 152</b>	<b>ENG 125</b>	<b>HUM 115</b>	<b>MUS 152</b>	<b>PED 151</b>	<b>PSY 241</b>
<b>ANT 210</b>	<b>BIO 112</b>	<b>CHM 251</b>	<b>ENG 231</b>	<b>HUM 160</b>	<b>MUS 241</b>	<b>PED 187</b>	<b>PSY 243</b>
<b>ART 111</b>	<b>BIO 120</b>	<b>CHM 252</b>	<b>ENG 232</b>	<b>HUM 230</b>	<b>MUS 242</b>	<b>PED 240</b>	<b>PSY 263</b>
<b>ART 114</b>	<b>BIO 130</b>	<b>CIS 110</b>	<b>ENG 241</b>	<b>MAT 143</b>	<b>PED 110</b>	<b>PED 252</b>	<b>PSY 281</b>
<b>ART 115</b>	<b>BIO 140/140A</b>	<b>CIS 115</b>	<b>ENG 242</b>	<b>MAT 152</b>	<b>PED 111</b>	<b>PED 256</b>	<b>REL 110</b>
<b>ART 117</b>	<b>BIO 150</b>	<b>CJC 111</b>	<b>ENG 261</b>	<b>MAT 171</b>	<b>PED 112</b>	<b>PHI 215</b>	<b>REL 211</b>
<b>ART 121</b>	<b>BIO 163</b>	<b>CJC 121</b>	<b>ENG 262</b>	<b>MAT 172</b>	<b>PED 117</b>	<b>PHI 240</b>	<b>REL 212</b>
<b>ART 122</b>	<b>BIO 168</b>	<b>CJC 141</b>	<b>GEO 111</b>	<b>MAT 263</b>	<b>PED 118</b>	<b>PHS 130</b>	<b>REL 221</b>
<b>ART 131</b>	<b>BIO 169</b>	<b>COM 110</b>	<b>HEA 110</b>	<b>MAT 271</b>	<b>PED 119</b>	<b>PHY 110/110A</b>	<b>SOC 210</b>
<b>ART 132</b>	<b>BIO 250</b>	<b>COM 120</b>	<b>HEA 112</b>	<b>MAT 272</b>	<b>PED 120</b>	<b>PHY 151</b>	<b>SOC 213</b>
<b>ART 231</b>	<b>BIO 271</b>	<b>COM 140</b>	<b>HEA 120</b>	<b>MAT 273</b>	<b>PED 122</b>	<b>PHY 152</b>	<b>SOC 220</b>
<b>ART 240</b>	<b>BIO 275</b>	<b>COM 150</b>	<b>HIS 111</b>	<b>MUS 110</b>	<b>PED 123</b>	<b>PHY 251</b>	<b>SOC 225</b>
<b>ART 241</b>	<b>BIO 280</b>	<b>COM 231</b>	<b>HIS 112</b>	<b>MUS 111</b>	<b>PED 125</b>	<b>PHY 252</b>	<b>SPA 111</b>
<b>ART 250</b>	<b>BUS 110</b>	<b>CSC 139</b>	<b>HIS 116</b>	<b>MUS 112</b>	<b>PED 126</b>	<b>POL 120</b>	<b>SPA 112</b>
<b>ART 275</b>	<b>BUS 115</b>	<b>CSC 151</b>	<b>HIS 121</b>	<b>MUS 113</b>	<b>PED 138</b>	<b>POL 130</b>	
<b>ART 281</b>	<b>BUS 137</b>	<b>ECO 251</b>	<b>HIS 122</b>	<b>MUS 114</b>	<b>PED 139</b>	<b>POL 210</b>	
<b>ART 283</b>	<b>CHM 131/131A</b>	<b>ECO 252</b>	<b>HIS 131</b>	<b>MUS 141</b>	<b>PED 140</b>	<b>POL 220</b>	
<b>AST 151/151A</b>	<b>CHM 132</b>	<b>ENG 113</b>	<b>HIS 132</b>	<b>MUS 142</b>	<b>PED 148</b>	<b>PSY 150</b>	