

**UTK ARTICULATION AGREEMENT**  
**BIOLOGICAL SCIENCES CONCENTRATION IN:**  
**BIOCHEMISTRY, CELLULAR, AND MOLECULAR BIOLOGY**

This program leads to an Associate of Science general degree from Roane State and a Bachelor of Science with a major in Biological Sciences from the University of Tennessee.

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**ROANE STATE**

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<b>Freshman</b>	<b>fall</b>	<b>spring</b>	<b>Sophomore</b>	<b>fall</b>	<b>spring</b>
English 1010-1020 .....	3	3	History 1010-1020 or		
Biology 1110-1120 .....	4	4	1210-1220.....	3	3
Mathematics 1910-1920 .....	4	4	English 2110, 2120, 2210, 2220, 2310,		
Physical Education.....	1	-	or 2320 .....	3	3
<sup>1</sup> Social Science Elective .....	3	3	Speech 201 .....	3	-
Elective .....	-	1	Biology 2120 .....	-	4
			<sup>2</sup> Humanities .....	3	3
			Chemistry 1110-1120 .....	4	4
<b>TOTAL</b>	<u>15</u>	<u>15</u>			
			<b>TOTAL</b>	<u>16</u>	<u>14</u>

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**UNIVERSITY OF TENNESSEE**

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Physics 221-222 .....	8
Electives .....	0-6 <sup>3</sup>
Major (upper division) .....	32
Minor (optional) .....	15 or more
Upper Level Distribution .....	6
Foreign Language (intermediate level).....	6
Biology 240-250.....	8
Communicating Through Writing .....	3
<b>TOTAL</b>	<b>60 or more<sup>3</sup></b>

<sup>1</sup>Select from: POL 102; PSY 110; SOC 201, 202, 211. (Two disciplines must be represented.)

<sup>2</sup>Choose two courses from: MUS 1030; PHIL 1030, 121, 201; THEA 1010; ENGL 2110, 2120, 2210, 2220, 2310, 2320.

<sup>3</sup>Upper division credits must total a minimum of 42 semester hours.