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## RECOMMENDED ASSOCIATE OF SCIENCE (AS) CURRICULUM IN BIOLOGY FOR KCTCS STUDENTS

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60 Credit Hours

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### A. General Education Core - 37 credit hours

#### Written Communications - 6 credit hours

ENG 101 (3)

ENG 102 (3)

#### Oral Communications - 3 credit hours

COM 181 (3)

#### Arts and Humanities - 6 credit hours

*Humanities (3)*

PHI 100 (3)

*Heritage (3)*

HIS 101 (3) or HIS 102 (3)

#### Quantitative Reasoning - 6 credit hours

MAT 150 (3)

STA 220 (3)

#### Natural Sciences - 10 credit hours

*One science course must include a laboratory experience.*

BIO 150 (4) and BIO 151 (1)

CHE 170 (4) and CHE 175 (1)

#### Social and Behavioral Sciences - 6 credit hours

*Two disciplines must be represented and different from those in the Arts and Humanities category.*

REL 130 (3)

SOC 101 (3) or POL 101 (3) or GEO 152 (3)

### B. Quantitative Reasoning and/or Natural Sciences - 9 credit hours

BIO 143 (4)

CHE 180 (4) and CHE 185 (1)

### C. Electives - 14 credit hours

CHE 270 (4) and CHE 275 (1)

ENG 161 (3)

CIT 105 (3) [Required- KCTCS Digital Literacy Success Course]

FYE 105 (3) [Required- KCTCS College Success Course]

**Early-Start MAT Biology Degree Program for KCTCS Transfer Students  
(Undergraduate Degree in Biology-123 Credit Hours and with MAT Degree-147 Credit Hours)**

Courses Taken at KCTCS Community Colleges		Courses Transferred to Bellarmine	
		BU 100 (Waived for transfer students)	
	3	IDC 101 (Waived for transfer students)	
FYE 105	3	ELECTIVE	3
ENG 102	3	ELECTIVE	3
CIT 105	3	ELECTIVE	3
COM 181	3	ELECTIVE (COMM 103)	3
ENG 101	3	ENGL 101	3
ENG 161	3	ENGL 200	3
HIS 101 or 102	3	HIST 116 or 117	3
PHI 100	3	PHIL 101	3
REL 130	3	THEO 200	3
SOC 101 or POL 101 or GEO 152	3	Gen Ed Social Science	3
BIO 150 (LEC) and BIO 151 (LAB)	5	BIOL 130	4
BIO 143	4	BIOL 140	4
CHE 170 (LEC) and CHE 175 (LAB)	5	CHEM 103	4
CHE 180 (LEC) and CHE 185 (LAB)	5	CHEM 104	4
CHE 270 (LEC) and CHE 275 (LAB)	5	CHEM 205 and CHEM 205L	4
MAT 150	3	MATH 105 (ELECTIVE)	3
STA 220	3	MATH 205	4
<b>Total</b>	<b>60</b>		<b>57</b>

THIRD YEAR			
<i>Fall</i>		<i>Spring</i>	
BIOL 220	4	BIOL 240	4
BIOL 231	4	BIOL elective (2XX or above)	4
Fine Arts	3	BIOL elective (3XX or above)	4
Gen Ed THEO Elective	3	PHIL 301	3
Foreign Lang. 101	3	Foreign Lang. 102	3
<b>Total</b>	<b>17</b>		<b>18</b>

FOURTH YEAR			
<i>Fall</i>		<i>Spring</i>	
BIOL 408	4	Elective (3XX or above)	4
BIOL elective (3XX or above): suggestion: BIOL 313	4	BIOL 499	0
BIOL elective (3XX or above): suggestion: BIOL 314	4	IDC 401	3
MAT 502	3	MAT 605	3
MAT 507 or MAT 505	3	MAT 610	3
<b>Total</b>	<b>18</b>		<b>13</b>

FIFTH YEAR			
<i>Summer</i>			
MAT 600			3
MAT 614			3
MAT 615			3
<b>Total</b>			<b>9</b>
<i>Fall</i>		<i>Spring</i>	
MAT 545	3	MAT 648 or MAT 644	3
MAT 596 or MAT 598	3	MAT 649 or MAT 643	3
MAT 509	3		
<b>Total</b>	<b>9</b>		<b>6</b>