

**RECOMMENDED ASSOCIATE OF SCIENCE (AS) CURRICULUM IN MATHEMATICS (CALCULUS READY) FOR
KCTCS STUDENTS**

60 Credit Hours

A. General Education Core - 41 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 - 10 credit hours

MAT 175 (5)

MAT 185 (5)

Natural Sciences - 10 credit hours

PHY 231 (4) and PHY 241 (1) (Strongly Recommended)

PHY 232 (4) and PHY 242 (1) (Strongly Recommended)

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 - 7 credit hours

MAT 275 (4)

STA 220 (3)

C. Electives - 12 credit hours

ENGL 200 (3)

Fine Arts (3) - ART 101/105/106/112/113/220/240; MUSC 100/104/222

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

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

**Early-Start MAT Mathematics Degree Program (Calculus Ready) for KCTCS Transfer Students
(Undergraduate Degree in Mathematics-122 Credit Hours and with MAT Degree-146 Credit Hours)**

Courses Taken at KCTCS Community Colleges		Courses Transferred to Bellarmine	
		BU 100 (Waived for transfer students)	
		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
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	Social Science	3
ENGL 200	3	ENG 200	3
ART 101 or 105 or 106 or 112 or 113 or 220 or 240 or MUS 100 or 104 or 222	3	Fine Arts (3) - ART 101 or 211 or 230 or 242 or 280 or 201 or 202 MUSC 100 or 103 or 200	3
PHY 231 (LEC) and 241 (LAB)	5	PHYS 205	4
PHY 232 (LEC) and 242 (LAB)	5	PHYS 206	4
MAT 175	5	MATH 117	4
MAT 185	5	MATH 118	4
MAT 275	4	MATH 216	3
STA 220	3	MATH 205	4
Total	60		56

THIRD YEAR			
Fall		Spring	
MATH 120	3	MATH 215	3
CS 130 (recommended)	3	MATH 231	3
Foreign Lang. 101	3	Foreign Lang. 102	3
MATH 314	3	MATH 305 (Upper-Level Elective)	3
PHIL 301	3	Elective	3
Elective	3	Elective	3
Total	18		18

FOURTH YEAR			
Fall		Spring	
MATH 331(Fall even years) or MATH 403 (Fall odd years)	3	MATH 450	3
MATH Elective	3	MATH 499	0
IDC 401	3	Gen Ed THEO Elective	3
MAT 502	3	Elective	3
MAT 507 or MAT 505	3	MAT 605	3
		MAT 610	3
Total	15		15

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

**RECOMMENDED ASSOCIATE OF SCIENCE (AS) CURRICULUM IN MATHEMATICS (NOT-CALCULUS READY)
FOR KCTCS STUDENTS**

60 Credit Hours

A. General Education Core - 41 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 - 10 credit hours

MAT 171 (5)

MAT 175 (5)

Natural Sciences - 10 credit hours

PHY 201 (4) and 202 (1) (Strongly Recommended)

PHY 203 (4) and 204 (1) (Strongly Recommended)

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 - 7 credit hours

MAT 185 (4)

MAT 275 (3)

C. Electives - 12 credit hours

ENGL 200 (3)

Fine Arts (3) - ART 101/105/106/112/113/220/240; MUSC 100/104/222

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

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

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(Undergraduate Degree in Mathematics-122 Credit Hours and with MAT Degree-146 Credit Hours)**

Courses Taken at KCTCS Community Colleges		Courses Transferred to Bellarmine	
		BU 100 (Automatically waived for transfer students)	
		IDC 101 (Automatically 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
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	Social Science	3
ENGL 200	3	ENG 200	3
ART 101 or 105 or 106 or 112 or 113 or 220 or 240 or MUS 100 or 104 or 222	3	Fine Arts (3) - ART 101 or 211 or 230 or 242 or 280 or 201 or 202 or MUSC 100 or 103 or 200	3
PHY 201 (LEC) and 202 (LAB)	5	PHYS 201	4
PHY 203 (LEC) and 204 (LAB)	5	PHYS 202	4
MAT 171	5	MATH 116	3
MAT 175	5	MATH 117	4
MAT 185	5	MATH 118	4
MAT 275	4	MATH 216	3
	62		55

THIRD YEAR			
Fall		Spring	
MATH 120	3	MATH 215	3
MATH 205	4	MATH 231	3
MATH 314	3	PHIL 301	3
Foreign Lang. 101	3	MATH 305 (Upper-Level Elective)	3
CS 130 (recommended)	3	Foreign Lang. 102	3
Elective	3	Elective	3
Total	19		18

FOURTH YEAR			
Fall		Spring	
MATH 331(Fall even years) or MATH 403 (Fall odd years)	3	MATH 450	3
MATH Elective	3	MATH 499	0
IDC 401	3	Gen Ed THEO Elective	3
MAT 502	3	Elective	3
MAT 507 or MAT 505	3	MAT 605	3
		MAT 610	3
Total	15		15

FIFTH YEAR			
Summer			
MAT 600			3
MAT 614			3
MAT 615			3
Total			9
Fall		Spring	
MAT 545	3	MAT 648 or MAT 644	3
MAT 580 or MAT 582	3	MAT 649 or MAT 643	3
MAT 509	3		
Total	9		6