Mathematics / Secondary Education

Bachelor of Arts (BA.MATH(SEC))

Core Requirements				Credits	Notes/Instructions
College Sem.		Quest for Meaning	CSEM 100	3	†A student may be required to take ENGL 105 and/or MATH 100 based on placement exams administered prior to their first semester at King's College. ENGL 105 and MATH 100 are 3-credit courses and will count as free electives. †† The Intercultural Competence requirement can be satisfied by taking a 100-level language class for 3 credits or participating in an approved Study Abroad experience. (See college catalog for more information) **SBM** = Satisfied By Major requirement(s) and credit(s) listed below.
Communication & Creative Expression		Writing	ENGL 110†	3	
		Oral Communication	COMM 101	3	
		Literature	ENGL 140-149	3	
		The Arts	ARTS 100-149	3	
Citizenship		History	HIST 100-149	3	
		Intercultural	FREN/GERM/SPAN 100-level or Study Abroad††	3	
		Global Connections	ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199	3	
Quantitative & Scientific Reasoning	SBM	Quantitative Reasoning	MATH 120† or higher level	-	
	SBM	Scientific Endeavor	NSCI 100	-	
	SBM	Science in Context	NSCI 171-199	-	
		Human Beh. & Soc. Inst	ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	3	
Wisdom, Faith, & the Good Life		Introduction to Phil.	PHIL 101	3	
		Phil. Investigations	PHIL 170-199	3	
		Theology & Wisdom	THEO 150-159	3	
		Theology & the Good Life	THEO 160-169	3	
			Total Core Credits	**39**	

Major Requirements	Credits
MATH 127[2,5]	3
MATH 129[5]	4
MATH 130	4
MATH 231[6]	4
MATH 235[6]	3
MATH 250	4
MATH 367	3
MATH 425	3
MATH 490	1

Major Requirements	Credits
CS 112	3
CS 1xx	3
Science Group[2,]*	3
Science Group[2,]*	3
MATH 236[8]	3
MATH 361	3
MATH 362	3
MATH Elective**	3

Other Requirements	
HCE 101 Holy Cross Exp.	1

Secondary Education Requirements	Credits
EDUC 202	3
EDUC 231	1
EDUC 232	1
EDUC 235[3]	3
EDUC 240[3]	3
EDUC 270[3]	3
EDUC 305[3, 4]	3
EDUC 320[3, 4]	3
EDUC 350[3,4]	3
EDUC 366[3, 4]	3
EDUC 440[4]	3
EDUC 467[3, 4]	10
EDUC 468[3, 4]	2

Total Major Credits	29	Total Major and Other Credits	25	Total Secondary Education Credits	41

Total Credits Required for Graduation = 134

*All students majoring in Mathematics must take one of the Science Groups below (lab portion not required):

Science Group 1*		Science Group 2*		Science Group 3*
CHEM 113 CHEM 114	OR	PHYS 111 PHYS 112	OR	PHYS 113 *(Calculus based)* PHYS 114 *(Calculus based)*

** One additional Math Elective numbered 300 or Higher

MATH Electives		
MATH 301 MATH 363	MATH 365 MATH 391	MATH 418 MATH 420 MATH 491

NOTE: All Secondary Teacher Certification candidates must complete six credits of college level mathematics and six credits of college level English:

Math Courses	MATH 129	MATH 130
English Courses	ENGL 110	ENGL 140 - 149

The Pennsylvania Department of Education requires secondary teachers to have a degree in the content area for certification. Students seeking secondary certification must meet with his/her specific content area department for content area courses required for the degree. The Education Division is not responsible for content area or CORE courses for secondary certification candidates.

See reverse side for a suggested sequence

Effective 07/01/2025

Mathematics / Secondary Education

Suggested Sequence

A suggested course sequence of degree requirements is listed below. Refer to the college catalog for course titles, descriptions, and prerequisites. Always consult your Academic Advisor when planning and scheduling your classes.

Fall	Credits	Spring	Credits
MATH 127[5] Logic & Axiomatics	3	MATH 130 Analytic Geometry & Calculus II	4
MATH 129[5] Analytic Geometry & Calculus I	4	MATH 236[8] College Geometry or CS 111[7] Program.	
Core Course[1]	3	for Science & Engineering	3
Core Course[1]	3	EDUC 202	3
Core Course[1]	3	Core Course[1]	3
HCE 101 Holy Cross Experience	1	Core Course[1]	3
	17		**16**

Summer ***	Credits
Core Course[1]	3
	3

Fall	Credits	Spring	Credits
MATH 231[6] Analytic Geometry & Calculus III	4	MATH 250 Linear Algebra	4
MATH 235[6] Discrete Mathematics	3	MATH 236[8] College Geometry or CS 111[7] Program.	
Science Group[2,*]	3	for Sci. & Engineering	3
CS 112[8] Intro. to Programming	3	Science Group[2,*]	3
EDUC 235[3] Sec. Development, Cognition, & Learn	3	CORE	3
		EDUC 240[2] Sec. Multicult., Linguistic & Inst. Meth.	3
	16		**16**

Admission to Candidacy (Complete and return "Application for Teacher Education Program Candidacy" to the Education Department no sooner than the completion of 48 credits and no later than 65 credits.)

Summer ***	Credits
Core Course[1]	3
	3

Fall	Credits	Spring	Credits
MATH 367[9] Real Analysis I **OR** MATH 425[9] Abstract Algebra	3	MATH 490 Junior Seminar	1
MATH 361 Probability & Statistics I	3	MATH 362 Probability & Statistics II	3
EDUC 270[3] Introduction to Special Education	3	EDUC 350[3,4] Secondary Classroom Management	3
EDUC 305[3,4]Assessment I **OR**		EDUC 366[3,4] Methods For Teaching Diverse Learners	3
EDUC 320[3,4] Secondary Mathematics Methods	3	Core Course[1]	3
Core Course[1] / MATH Elective**	3	Core Course[1]/MATH Elective**	3
	15		**16**

Summer	Credits

Fall	Credits	Spring	Credits
MATH 367[9] Real Analysis I **OR** MATH 425[9] Abstract Algebra	3	EDUC 467[3, 4] Observation & Student Teach. (Sec.)	10
Core Course[1] / MATH Elective**	3	EDUC 468[3, 4] Student Teaching Seminar	2
EDUC 305[3,4]Assessment I **OR**		EDUC 440[4] Inclusive Education	3
EDUC 320[3,4] Secondary Mathematics Methods	3		
Core Course[1]	3		
Core Course[1]	3	**Take Praxis II**	
EDUC 231 and 232	2		
	17		**15**

Total Credits Required for Graduation = 134

NOTES:

***** 6 credits during Summer Session are suggested in order to finish the degree in four years.**

[1]Choose one course from each of the Core Requirements listed on the reverse side.

[2] Course may satisfy both a Major and a Core requirement.

[3] Updated Child Abuse & Criminal Record & FBI Clearances **REQUIRED** for EDUC 235, EDUC 240, EDUC 320, EDUC 305, EDUC 350, EDUC 366, EDUC 467 and EDUC 468.

[4] [5] Courses intended to be taken concurrently. Do not delay taking MATH 127.

[6] Courses intended to be taken concurrently. Do not delay taking MATH 235.

[7] CS 100 or CS 120 may be substituted for CS 111.

[8] MATH 236 offered spring semester even years only. Students should take this course during their 1st or 2nd year.

[9] MATH 367 is offered fall semesters odd years only and MATH 425 is offered fall semesters even years only.

[PR] Course has a prerequisite – check college catalog.