MATHEMATICS – BUSINESS

BACHELOR OF SCIENCE (B.S.)

CORE Requirements	Credits
CORE 000 E' . V. E	1
CORE 090 First Yr Exp.	1
CORE 100 Lib Arts Sem.	3
CORE 110 Effect Writ.	3
CORE 115 or 116 Oral Comm.	3
CORE 131 or 133 Civilization	3
CORE 140 or 141-145 Forgn.	3
CORE 153 Macro Econ	3
CORE 160-164 Literature	3
CORE 170-179 The Arts	3
CORE 180-189 Amer. Studies ¹	3
CORE 190-199 Global Stud. 1,2	3
CORE 250-259 Syst. Theology	3
CORE 260-269 Mor. Theology	3
CORE 280 Philos. I	3
CORE 281-289 Philos. II ³	3
	3
	3
	43

Mathematics Requirements	Credits
MATH 1275 Logic & Axiomatics	3
MATH 1295 Analytic Geo & Calc I	4
MATH 130 Analytic Geo & Calc II	4
MATH 2316 Analytic Geo & Calc III	4
MATH 2356 Discrete Mathematics	3
MATH 250 Linear Algebra	4
MATH 367 Real Analysis I	3
MATH 425 Abstract Algebra	3
MATH 490 Junior Seminar	1
MATH Track**	3
MATH Track**/Elective	(3)
CS 116 with 116L (Lab)	3
CS 117 with 117L (Lab) or CS 100	3
Science Group*	3
Science Group*	3
1	56-59

Business Requirements	Credits
ECON 112 Micro Economics ECON 221 Quant. Meth.for Bus.&Econ ⁴	3
MSB 110 Intro to Financial Reporting	3
MSB 120 Intro to Mgmt Control & Plan	3
MSB 200 Principles of Management	3
MSB 210 Principles of Marketing	3
MSB 220 (or 320) Financial Management	3
Business Elective 1 ⁷	3
Business Elective 27	3
	27

Total Credits = 126 - 129

*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	OR	PHYS 111	OR	PHYS 113 (Calculus based)
CHEM 114		PHYS 112		PHYS 114 (Calculus based)

**In addition to the above, each Mathematics Major must complete one of the following three tracks:

MATH 1	rack 1	MAT	H Track 2
Graduate School		Actuary Science, Industry, & Government	
Students must take five (
			following six (6) mathematics
numbered 361 or higher and are usually taken in the junior		courses, usually take in the junior and senior years.	
and senior years.			
MATH 361	MATH 418	MATH 301	MATH 363
MATH 362	MATH 420	MATH 361	MATH 365
MATH 363	MATH 491	MATH 362	MATH 418, 420, <u>or</u> 491
MATH 365			

Since CORE 153 is a requirement, students are required to take one of CORE 180 OR CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 180, then he/she should choose one from 191 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she should choose one from 181 188 to fulfill the 18x requirement

⁷Mathematics students are encouraged to pursue the following Fall/Spring course sequences to fulfill the Business Elective 1 and 2 requirements:

- Technology Management: BUS 363 Operations Management and BUS 435 Innovation, Technology & Entrepreneurship
- Operations Management: MKT 385 Supply Chain Management and BUS 363 Operations Management
- Accounting: ACCT 115/L Introduction to Financial Accounting II w/ Lab and ACCT 301 (or ACCT 240) Intermediate Accounting I

 $^{^2}$ Students are encouraged to take CORE 193 – Globalization to fulfill the Global Studies requirement.

³ Students are encouraged to take either MSB 287 – Business Ethics, CORE 284 – Environmental Ethics, or CORE 288 – Bioethics to fulfill the Philosophy II requirement.

⁴MATH 362- Statistics may be substituted for ECON 221

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

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

MATHEMATICS – BUSINESS

SUGGESTED SEQUENCE

- Use the information below as a guide when selecting courses.
- Refer to the reverse side when selecting major courses, major electives, core courses, and free electives when applicable.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed on the reverse side.
 - o CORE courses may be taken in any order approved by the academic advisor with the following conditions:
 - CORE 100 and CORE 110 should be taken in the first year.
 - CORE 115 (or 116) should be taken within the first two years.
 - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first semester at King's.

	1st Year - Fall	cr.	1st Year - Spring	cr.
	MATH 1275 Logic & Axiomatics	3	MATH 130 Analytic Geometry & Calculus II	4
	MATH 1295 Analytic Geometry & Calculus I	4	MSB 120 Intro. to Management Acct. & Plan.	3
-	MSB 110 Intro. To Financial Accounting	3	ECON 112 Micro Economics	3
	CORE 153 Macro Economics	3	CS 100 Intro to Computing or CORE	3
	CORE	3	CORE	3
	CORE 090 First Year Exp.	1		
		17		16
	2 nd Year - Fall		2 nd Year – Spring	
	MATH 2316 Analytic Geometry & Calculus III	4	MATH 250 Linear Algebra	4
	MATH 2356 Discrete Mathematics	3	ECON 221 Business Statistics	3
	CS 116 Fund. of Soft. Dev. I with CS 116L Lab	3	CORE	3
	Science Group*	3	Science Group*	3
	CORE	3	CS 117 Fund. of Soft. Dev. II with CS 117L	3
			Lab or CS 100 Intro to Computing or CORE	
		16		16
	3 rd Year – Fall		3rd Year – Spring	
	MATH 367 Real Analysis I	3	MATH 490 Junior Seminar	1
	MATH Track**	3	MATH Track**	3
	MSB 200 Principles of Management	3	MATH Track**	3
	CORE	3	MSB 210 Principles of Marketing	3
	CORE	3	CORE	3
	CORE	3	CORE	3
		18		16
	4th Year - Fall		4th Year – Spring	
	MATH 425 Abstract Algebra	3	MATH Track**	3
	MATH Track**	3	MATH Track**/Elective	(3)
	MSB 320 Financial Management	3	Business Elective 2 ⁷	3
	Business Elective 1 ⁷	3	CORE	3
	CORE	3	CORE	3
		15		12-15

Total Credits Required for Graduation= 126 - 129

^{**} Students must take a 6th mathematics course for the Math Track 2