COMPUTER SCIENCE

BACHELOR OF SCIENCE (BS.CS)

CORE Requirements	Credits	Computer Science Requirements		Free Electives	Credits
			3		
CORE 090 First Year Exp.	1	CS 112 Intro. to Programming (fall)		Free Elective	3
CORE 100 Lib Arts Sem.	3	CS 120 OO Software Dev. (spr)		Free Elective	3
CORE 110 Effective Writing	3	CS 120L OO Software Dev. Lab (spr)	1	Free Elective	3
CORE 115 or 116 Oral Comm.	3	CS 232 Data Structures (fall)	3	Free Elective	3
CORE 131 or 133 Civilization	3	CS 232L Data Structures Lab (fall)	1		
CORE 140 or 141-145 Forgn.	3	CS 233 Adv. Data Structures (spr)	3		
CORE 150-159 Soc. Sci ¹	3	CS 233L Adv. Data Structures Lab (spr)	1		
CORE 160-169 Literature	3	CS 256 Database Management	3		
CORE 170-179 The Arts	3	CS 256L Database Management Lab	1		
CORE 180-189 Amer. Studies ¹	3	CS 270 Computer Organization	3		
CORE 190-199 Global Studies ^{1,2}	3	CS 270L Computer Organization Lab	1		
CORE 250-259 Syst. Theology	3	CS 480 Software Engineering (fall)	3		
CORE 260-269 Mor. Theology	3	CS 481 Applied Software Engineering			
CORE 270 Natural Science I	3	OR	3		
CORE 271-279 Natural Sci. II	3	CS 499 CS Internship			
CORE 280 Philosophy I	3	CS Elective*	3		
CORE 281-289 Philosophy II	3	CS Elective*	3		
		CS Elective*	3		
		CS Elective*	3		
		CS Elective*	3		
		CS Elective*	3		
		MATH 127 Logic & Axiomatics	3		
		MATH 129 Calculus I	4		
		MATH 130 Calculus II	4		
		MATH 235 Discrete Mathematics	3		
		IVIA I I 233 Discrete Mathematics	3		
	49		61		12
	47	Total Credits = 122	01		12

Total Credits = 122

^{*}A student majoring in Computer Science must complete six (6) of the following CS Electives (only 2 can be CIS courses):

CS Electives*							
Choose any six (6) of the following courses:							
CS 305	CS 364	CS 448					
CS 315	CS 375	CIS 385					
CS 328	CS 380	CIS 386					
CS 336	CS 420	CIS 487					
Any CS course 300 or higher							

NOTE: The following "Free Electives" are recommended for Computer Science majors: MATH 126, MATH 237, PHYS 111 & PHYS 111L. CIS 106 is recommended particularly to freshman choosing between Computer Science and Computer Information Systems.

¹Students are required to take CORE 150, CORE 180 **OR** CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 150, then he/she should choose from 181 188 to fulfill the 18x requirement AND from 191 198 to fulfill the 19x requirement.
- If a student takes CORE 180, then he/she should choose from 151 158 to fulfill the 15x requirement AND from 191 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she should choose from 151 158 to fulfill the 15x requirement AND from 181 188 to fulfill the 18x requirement.

General Information:

A student must earn a minimum of 120 credit hours to be awarded the baccalaureate degree. The number of credit hours required for graduation may be higher in certain major programs <u>or</u> if the student elects to pursue a second major.

Beyond the requirements of the Core Curriculum and of a student's chosen major program, the balances of the credit hours required for graduation are "free electives."

²Students may select "free electives" for personal enrichment **OR** for Minor and/or Second Major Requirements.

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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.
CS 112 Intro. to Prog	CS 112 Intro. to Programming (fall only)		CS 120 OO Software Development (spring only)	3
MATH 127 Logic & A	MATH 127 Logic & Axiomatics (fall only)		CS 120 OO Software Devel. Lab (spring only)	1
MATH 129 Analytical Geometry & Calculus I		4	MATH 130 Analytical Geometry & Calculus II	4
CORE 110 and/or CI	S 106 ²	3	CORE 170-179	3
CORE 090 First Year	Experience	1	CORE 100 Liberal Arts Seminar	3
(CORE)		(3)	CORE	3
Note: (A student may take and aa	lditional course up to 17 credits)	14-17 †		17
2nd Year - Fall	-		2 nd Year – Spring	
CS 232 Data Structure	es (fall only)	3	CS 233 Adv. Data Structures (spring only)	3
CS 232L Data Structures (fall only)		1	CS 233 Adv. Data Structures Lab (spring only)	1
CS 256 Database Man	CS 256 Database Management Systems		CS 270 Computer Organization	3
CS 256L Database Ma	nagement Systems Lab	1	CS 270L Computer Organization Lab	1
MATH 235 Discrete I	Mathematics	3	CORE	3
CORE		3	CORE	3
CORE		3	CORE	3
		17		17
3 rd Year – Fall			3 rd Year – Spring	
CS Elective*		3	CS Elective*	3
CS Elective*		3	CS Elective*	3
CORE		3	CORE	3
CORE		3	CORE	3
Free Elective ²		3	Free Elective ²	3
		15		15
4th Year - Fall			4th Year - Spring	
CS 480 Software Engi	neering	3	CS 481 Applied Software Engineering OR	3
CS Elective*		3	CS 499 CS Internship	3
CORE		3	CORE	3
CORE		3	Free Elective ²	3
Free Elective ²		3	(CORE or Free Elective ² – if needed)	(3)
		15		12-15
	Total Credits	Require	d for Graduation = 122	

 † The standard semester course load is five courses consisting of 15 – 17 credits. A student may take 18 credits if a lab puts them over 17 credits (for more information about credit loads, please see the college catalog).