

# Computer Science – Business

## Bachelor of Science (BS.CS(BUS))

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. <b>SBM</b> = 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	<b>SBM</b> Quantitative Reasoning	MATH 120 <sup>+</sup> or higher level	-	
	Scientific Endeavor	NSCI 100	3	
	Science in Context	NSCI 171-199	3	
	Human Beh. & Soc. Inst	<b>ECON 111, 112</b> ; GEOG 101, 102; PS 101, PSYC 101, SOC 101	-	
Wisdom, Faith, & the Good Life	Introduction to Phil.	PHIL 101	3	
	Phil. Investigations	PHIL 170-199; MSB 287	3	
	Theology & Wisdom	THEO 150-159	3	
	Theology & the Good Life	THEO 160-169	3	
<b>Total Core Credits</b>			<b>42</b>	

Major Requirements		Credits	Business Requirements		Credits
CS 112	Intro. to Programming ( <i>fall</i> )	3	ECON 111 <sup>2</sup>		3
CS 120 <sup>PR</sup>	OO Software Dev. ( <i>spring</i> )	3	ECON 112		3
CS 120L <sup>PR</sup>	OO Software Dev. Lab ( <i>spring</i> )	1	ECON 221		3
CS 232 <sup>PR</sup>	Data Structures ( <i>fall</i> )	3	MSB 110		3
CS 232L <sup>PR</sup>	Data Structures Lab ( <i>fall</i> )	1	MSB 120		3
CS 233 <sup>PR</sup>	Adv. Data Structures ( <i>spring</i> )	3	MSB 200		3
CS 233L <sup>PR</sup>	Adv. Data Structures Lab ( <i>spring</i> )	1	MSB 210		3
CS 256 <sup>PR</sup>	Database Management	3	MSB 220		3
CS 256L <sup>PR</sup>	Database Management Lab	1	Business Elective 1 <sup>4</sup>		3
CS 270 <sup>PR</sup>	Computer Organization	3	Business Elective 2 <sup>4</sup>		3
CS 270L <sup>PR</sup>	Computer Organization Lab	1			
CS 480 <sup>PR</sup>	Software Engineering ( <i>fall</i> )	3			
CS 481 <sup>PR</sup>	Appl. Soft. Engr. <b>OR</b> CS 499 <sup>PR</sup> CS Internship	3			
	CS Elective* <sup>PR</sup>	3			
	CS Elective* <sup>PR</sup>	3			
	CS Elective* <sup>PR</sup>	3			
	CS Elective* <sup>PR</sup>	3			
	CS Elective* <sup>PR</sup>	3			
	CS Elective* <sup>PR</sup>	3			
	MATH 127 Logic & Axiomatics	3			
	MATH 129 <sup>2</sup> Calculus I	4			
	MATH 130 <sup>PR</sup> Calculus II	4			
	MATH 235 <sup>PR</sup> Discrete Mathematics	3			
			<b>Other Requirements</b>		
			HCE 101 Holy Cross Exp.		1
<b>Total Major Credits</b>		<b>61</b>	<b>Total Business / Other Credits</b>		<b>31</b>

### Total Credits Required for Graduation = 134

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

CS Elective* <sup>PR</sup>					
CS 305	CS 328	CS 364	CS 380	CS 448	CIS 386
CS 315	CS 336	CS 375	CS 420	CIS 385	CIS 487
Any CS course 300 or higher					

#### 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 **or** 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."

# Computer Science – Business

## 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
_____	CS 112 Intro. to Programming ( <i>fall only</i> )	3	_____	CS 120 <sup>PR</sup> OO Software Development ( <i>spring only</i> )	3
_____	MATH 127 <sup>2</sup> Logic & Axiomatics ( <i>fall only</i> )	3	_____	CS 120L <sup>PR</sup> OO Software Devel. Lab ( <i>spring only</i> )	1
_____	MATH 129 <sup>2</sup> Analytical Geometry & Calculus I	4	_____	MATH 130 <sup>PR</sup> Analytical Geometry & Calculus II	4
_____	Core Course <sup>1</sup> ( <i>ENGL 110 Academic Writing</i> )	3	_____	Core Course <sup>1</sup> ( <i>ARTS 100 – 149</i> )	3
_____	Core Course <sup>1</sup>	3	_____	Core Course <sup>1</sup> ( <i>CSEM 100 Quest for Meaning</i> )	3
_____	HCE 101 Holy Cross Experience	1	_____	Core Course <sup>1</sup>	3
		<b>17</b>			<b>17</b>
Summer		Credits			
Fall		Credits	Spring		Credits
_____	CS 232 <sup>PR</sup> Data Structures ( <i>fall only</i> )	3	_____	CS 233 <sup>PR</sup> Adv. Data Structures ( <i>spring only</i> )	3
_____	CS 232L <sup>PR</sup> Data Structures ( <i>fall only</i> )	1	_____	CS 233 <sup>PR</sup> Adv. Data Structures Lab ( <i>spring only</i> )	1
_____	CS 256 <sup>PR</sup> Database Management Systems	3	_____	CS 270 <sup>PR</sup> Computer Organization	3
_____	CS 256L <sup>PR</sup> Database Management Systems Lab	1	_____	CS 270L <sup>PR</sup> Computer Organization Lab	1
_____	MATH 235 <sup>PR</sup> Discrete Mathematics	3	_____	ECON 112 <sup>2</sup> Introduction to Microeconomics	3
_____	ECON 111 <sup>2</sup> Introduction to Macroeconomics	3	_____	Core Course <sup>1</sup>	3
_____	Core Course <sup>1</sup>	3	_____	Core Course <sup>1</sup>	3
		<b>17</b>			<b>18</b>
Summer		Credits			
Fall		Credits	Spring		Credits
_____	CS Elective <sup>*,PR</sup>	3	_____	CS Elective <sup>*,PR</sup>	3
_____	CS Elective <sup>*,PR</sup>	3	_____	CS Elective <sup>*,PR</sup>	3
_____	MSB 110 Introduction to Financial Reporting	3	_____	MSB 120 Intro. To Mgmt. Control & Planning	3
_____	MSB 200 Principles of Management	3	_____	MSB 210 Principles of Marketing	3
_____	Core Course <sup>1</sup>	3	_____	Core Course <sup>1</sup>	3
_____	Core Course <sup>1</sup>	3	_____	Core Course <sup>1</sup>	3
		<b>18**</b>			<b>18**</b>
Summer		Credits			
Fall		Credits	Spring		Credits
_____	CS 480 Software Engineering	3	_____	CS 481 Appl. Soft. Engr. <b>OR</b> CS 499 CS Internship	3
_____	CS Elective <sup>*,PR</sup>	3	_____	CS Elective <sup>*,PR</sup>	3
_____	ECON 221 Statistics for Economics & Business I	3	_____	MSB 220 Financial Management	3
_____	Business Elective 1 <sup>4</sup>	3	_____	Business Elective 2 <sup>4</sup>	3
_____	Core Course <sup>1</sup>	3	_____	Core Course <sup>1</sup>	3
		<b>15</b>			<b>15</b>
<b>Total Credits Required for Graduation = 134</b>					

### NOTES:

\*\* Students are encouraged to take summer courses to relieve the course load pressure during this semester.

<sup>1</sup>Choose one course from each of the Core Requirements listed on the reverse side.

<sup>2</sup>Course may satisfy both a Major and a Core requirement. MATH 127 or MATH 129 will satisfy the Quantitative Reasoning Core requirement.

<sup>3</sup>Students may select “free electives” for personal enrichment **OR** for Minor and/or Second Major Requirements.

<sup>4</sup>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.

<sup>PR</sup> Course has a prerequisite – check college catalog.