

# COMPUTER SCIENCE – BUSINESS

## BACHELOR OF SCIENCE (B.S.)

CORE Requirements	Credits	Computer Science Requirements	Credits	Business Requirements	Credits
CORE 090 First Yr Exp.	1	CS 116 Fun. of Software Dev. I	3	ECON 112 Micro Economics	3
CORE 100 Lib Arts Sem.	3	CS 116L Fun. of Software Dev. I Lab	0	ECON 221 Quant Meth for Bus.& Econ	3
CORE 110 Effect Writ.	3	CS 117 <sup>3</sup> Fun. of Software Dev. II	3	MSB 110 Intro to Financial Rept.	3
CORE 115 or 116 Oral Comm.	3	CS 117L Fun. of Software Dev. II Lab	0	MSB 120 Intro to Mgmt Control & Plan	3
CORE 131 or 133 Civilization	3	CS 232 Data Structures	3	MSB 200 Principles of Management	3
CORE 140 or 141-145 Forgn.	3	CS 232L Data Structures Lab	1	MSB 210 Principles of Marketing	3
CORE 153 Macro Econ	3	CS 233 Adv. Data Structures	3	MSB 220 Financial Management	3
CORE 160-164 Literature	3	CS 233L Adv. Data Structures Lab	1	Business Elective 1 <sup>5</sup>	3
CORE 170-179 The Arts <sup>3</sup> (178)	3	CS 256 Database Management	3	Business Elective 2 <sup>5</sup>	3
CORE 180-189 Amer. Studies <sup>1</sup>	3	CS 256L Database Management Lab	1		
CORE 190-199 Glbl Studies <sup>1,2</sup>	3	CS 270 Computer Organization	3		
CORE 250-259 Syst. Theology	3	CS 270L Computer Organization Lab	1		
CORE 260-269 Mor. Theology	3	CS 480 Software Engineering	3		
CORE 270 Natural Science I	3	CS 481 Applied Software Engineering	3		
CORE 271-279 Nat. Sci. II	3	<b>OR</b>	3		
CORE 280 Philos. I	3	CS 499 CS Internship	3		
CORE 281-289 Philos. II <sup>4</sup>	3	CS Elective*	3		
		CS Elective*	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		
	49		60		27

**Total Credits = 136**

**\*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		

<sup>1</sup>Since CORE 153 is a course requirement, students are required to take CORE 180 OR CORE 190 to fulfill the Interdisciplinary CORE requirement.

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

<sup>2</sup>Students are encouraged to take CORE 193 – Globalization to fulfill the Global Studies requirement.

<sup>3</sup>CS 117 and CORE 178 form a learning community where students work on one project in both classes. This combination is not required but is highly recommended.

<sup>4</sup>Students are encouraged to take either MSB 287 – Business Ethics, CORE 284 – Environmental Ethics, or CORE 288 – Bioethics to fulfill the Philosophy II requirement.

<sup>5</sup> Computer Science 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 – Global Innovation, Technology & Entrepreneurship
- Manufacturing & Operations Management: MKT 385 – Supply Chain Management and BUS 363 – Operations Management
- Marketing: MKT 330 – Selling Strategies and MKT 390 – International Marketing
- Entrepreneurship: BUS 330 – Business Entrepreneurship and BUS 435 – Global Innovation, Technology & Entrepreneurship
- Accounting: ACCT 115/L – Introduction to Financial Accounting II w/ Lab and ACCT 301 – Intermediate Accounting I

# COMPUTER SCIENCE – 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.
  - 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.

1 <sup>st</sup> Year - Fall		cr.	1 <sup>st</sup> Year - Spring		cr.
CS 116 Fun. of Software Dev. I ( <i>fall only</i> )		3	CS 117 <sup>3</sup> Fun. of Software Dev. II ( <i>spring only</i> )		3
CS 116L Fun. of Software Dev. I Lab ( <i>fall only</i> )		0	CS 117L Fun. of Software Dev. II Lab ( <i>spring only</i> )		0
MATH 127 Logic & Axiomatics ( <i>fall only</i> )		3	MATH 130 Analytical Geometry & Calculus II		4
MATH 129 Analytical Geometry & Calculus I		4	CORE 170-179 ( <i>Core 178 Imaginative Writing<sup>3</sup></i> )		3
CORE 110 Effective Writing		3	CORE 100 Liberal Arts Seminar		3
CORE		3	CORE		3
CORE 090 First Year Experience		1			
		<b>17</b>			<b>16</b>
2 <sup>nd</sup> Year - Fall			2 <sup>nd</sup> Year - Spring		
CS 232 Data Structures ( <i>fall only</i> )		3	CS 233 Adv. Data Structures ( <i>spring only</i> )		3
CS 232L Data Structures ( <i>fall only</i> )		1	CS 233L Adv. Data Structures Lab ( <i>spring only</i> )		1
CS 256 Database Management Systems		3	CS 270 Computer Organization		3
CS 256L Database Management Systems Lab		1	CS 270L Computer Organization Lab		1
MATH 235 Discrete Mathematics		3	ECON 112 Micro Economics		3
CORE 153 Macro Economics		3	CORE		3
CORE		3	CORE		3
		<b>17</b>			<b>17</b>
3 <sup>rd</sup> Year - Fall			3 <sup>rd</sup> Year - Spring		
CS Elective *		3	CS Elective *		3
CS Elective *		3	CS Elective *		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
CORE		3	CORE		3
CORE		3	CORE		3
		<b>18*</b>			<b>18*</b>
4 <sup>th</sup> Year - Fall			4 <sup>th</sup> Year - Spring		
CS 480 Software Engineering		3	CS 481 Applied Software Engineering OR		3
CS Elective *		3	CS 499 CS Internship		-
ECON 221 Quant. Meth. for Bus.& Econ		3	CS Elective *		3
Business Elective 1 <sup>5</sup>		3	MSB 220 Financial Management		3
CORE		3	Business Elective 2 <sup>5</sup>		3
CORE		3	CORE		3
		<b>18*</b>			<b>15</b>

**Total Credits Required for Graduation = 136**

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

<sup>3</sup>CS 117 and CORE 178 form a learning community where students work on one project in both classes. This combination is not required but is highly recommended.