

# Computer and Information Systems

## Bachelor of Science (BS.CIS)

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) <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+ or higher level		-	
	Scientific Endeavor	NSCI 100		3	
	Science in Context	NSCI 171-199		3	
	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	
<b>Total Core Credits</b>				<b>45</b>	

Major Requirements	Credits	Electives <sup>3</sup> / Other Requirements	Credits
CIS 106 IT Methods & Procedures ( <i>fall only</i> )	3	HCE 101 Holy Cross Experience	1
CIS 116 Programming I ( <i>fall only</i> )	3	Free Elective <sup>3</sup>	3
CIS 117 <sup>PR</sup> Programming II ( <i>spring only</i> )	3	Free Elective <sup>3</sup>	3
CIS 119 Spreadsheet Analysis	3	Free Elective <sup>3</sup>	3
CIS 125 <sup>PR</sup> Artificial Intel. & Business Intel. ( <i>spring only</i> )	3	Free Elective <sup>3</sup>	3
CIS 244 <sup>PR</sup> Database Design & Impl. ( <i>fall only</i> )	3	Free Elective <sup>3</sup>	3
CIS 251 WEB-based Info. Systems ( <i>spring only</i> )	3	Free Elective <sup>3</sup>	3
CIS 255 Geographic Info. Systems ( <i>spring only</i> )	3		
CIS 351 Syst. Analysis, Design, & Impl. I ( <i>fall only</i> )	3		
CIS 352 <sup>PR</sup> Syst. Analysis, Design, & Impl. II ( <i>spring only</i> )	3		
CIS 356 <sup>PR</sup> Database Management Systems ( <i>fall only</i> )	3		
CIS 385 Cyber Network Foundations ( <i>fall only</i> )	3		
CIS 386 <sup>PR</sup> Adv. Cyber Networks & Security ( <i>spring only</i> )	3		
CIS 471 Info. Systems Security & Assurance ( <i>fall only</i> )	3		
CIS 472 IT Project Management ( <i>spring only</i> )	3		
CIS 487 Enterprise Cyber Security ( <i>fall only</i> )	3		
CIS 499 CIS Internship	3		
MATH 123 <sup>2</sup> Finite Mathematics	3		
ECON 221 Statistics & Predictive Analytics	3		
<b>Total Major Credits</b>		<b>Total Elective / Other Credits</b>	
<b>57</b>		<b>19</b>	

**Total Credits Required for Graduation = 121**

### 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 and Information Systems

## 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
_____	CIS 106 IT Methods & Procedures ( <i>fall only</i> )	3	_____	CIS 117 <sup>PR</sup> Programming II ( <i>spring only</i> )	3
_____	CIS 116 Programming I ( <i>fall only</i> )	3	_____	CIS 125 <sup>PR</sup> Artificial Intel. & Business Intel. ( <i>sp. only</i> )	3
_____	CIS 119 Spreadsheet Analysis	3	_____	Core Course <sup>1</sup> ( <i>CSEM 100 Quest for Meaning</i> )	3
_____	MATH 123 <sup>2</sup> Finite Mathematics	3	_____	Core Course <sup>1</sup>	3
_____	Core Course <sup>1</sup> ( <i>ENGL 110 Academic Writing</i> )	3	_____	Core Course <sup>1</sup>	3
_____	HCE 101 Holy Cross Experience	1			
		<b>16</b>			<b>15</b>
Summer		Credits			
Fall		Credits	Spring		Credits
_____	CIS 244 <sup>PR</sup> Database Design & Impl. ( <i>fall only</i> )	3	_____	CIS 251 WEB-based Info. Systems ( <i>spring only</i> )	3
_____	Core Course <sup>1</sup>	3	_____	CIS 255 Geographic Info. Systems ( <i>spring only</i> )	3
_____	Core Course <sup>1</sup>	3	_____	ECON 221 Bus. Statistics <b>OR</b> MATH 126 Statistics	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>15</b>			<b>15</b>
Summer		Credits			
Fall		Credits	Spring		Credits
_____	CIS 351 Syst. Analysis, Design, & Impl. I ( <i>fall only</i> )	3	_____	CIS 352 <sup>PR</sup> Syst. Analysis, Design, & Impl. II ( <i>sp. only</i> )	3
_____	CIS 385 Cyber Network Foundations ( <i>fall only</i> )	3	_____	CIS 386 <sup>PR</sup> Adv. Cyber Networks & Security ( <i>sp. only</i> )	3
_____	CIS 356 <sup>PR</sup> Database Management Syst. ( <i>fall only</i> )	3	_____	Core Course <sup>1</sup>	3
_____	Core Course <sup>1</sup>	3	_____	Core Course <sup>1</sup>	3
_____	Free Elective <sup>3</sup>	3	_____	Free Elective <sup>3</sup>	3
		<b>15</b>			<b>15</b>
Summer		Credits			
Fall		Credits	Spring		Credits
_____	CIS 471 Info. Syst. Security & Assurance ( <i>fall only</i> )	3	_____	CIS 472 IT Project Management ( <i>spring only</i> )	3
_____	CIS 487 Enterprise Cyber Security ( <i>fall only</i> )	3	_____	CIS 499 CIS Internship	3
_____	Core Course <sup>1</sup>	3	_____	Free Elective <sup>3</sup>	3
_____	Core Course <sup>1</sup>	3	_____	Free Elective <sup>3</sup>	3
_____	Free Elective <sup>3</sup>	3	_____	Free Elective <sup>3</sup>	3
		<b>15</b>			<b>15</b>
<b>Total Credits Required for Graduation = 121</b>					

### NOTES:

<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 123 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>PR</sup> Course has a prerequisite – check college catalog.