

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) SBM = 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 | SBM | 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 | |
| Total Core Credits | | | | 45 | |

| Major Requirements | | Credits | Electives ³ / 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 ³ | 3 |
| | CIS 117 ^{PR} Programming II (<i>spring only</i>) | 3 | | Free Elective ³ | 3 |
| | CIS 119 Spreadsheet Analysis (<i>spring only</i>) | 3 | | Free Elective ³ | 3 |
| | CIS 244 ^{PR} Structured Programming (<i>fall only</i>) | 3 | | Free Elective ³ | 3 |
| | CIS 251 WEB-based Info. Systems (<i>spring only</i>) | 3 | | Free Elective ³ | 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 ^{PR} Syst. Analysis, Design, & Impl. II (<i>spring only</i>) | 3 | | | |
| | CIS 356 Database Management Systems (<i>fall only</i>) | 3 | | | |
| | CIS 385 Cyber Network Foundations (<i>fall only</i>) | 3 | | | |
| | CIS 386 ^{PR} Advanced Cyber Networks and Security (<i>spring only</i>) | 3 | | | |
| | CIS 471 Information Systems Security and 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 ² Finite Mathematics | 3 | | | |
| | MSB 110 Intro. To Financial Reporting | 3 | | | |
| | MSB 120 ^{PR} Intro. to Management Acct. & Plan. | 3 | | | |
| | ECON 221 or MATH 126 | 3 | | | |
| Total Major Credits | | 60 | Total Elective / Other Credits | | 16 |

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."

See reverse side for a suggested sequence

Effective 07/01/2025

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 119 Spreadsheet Analysis (<i>spring only</i>) | 3 |
| CIS 116 Programming I (<i>fall only</i>) | 3 | CIS 117 Programming II (<i>spring only</i>) | 3 |
| MSB 110 Intro. To Financial Reporting | 3 | MSB 120 ^{PR} Intro. to Management Acct. & Plan. | 3 |
| MATH 123 Finite Mathematics | 3 | Core Course ¹ (<i>ARTS 100-149</i>) | 3 |
| Core Course ¹ (<i>ENGL 110 Academic Writing</i>) | 3 | Core Course ¹ (<i>CSEM 100 Quest for Meaning</i>) | 3 |
| HCE 101 Holy Cross Experience | 1 | | |
| 16 | | 15 | |
| Summer | Credits | | |
| | | | |
| Fall | Credits | Spring | Credits |
| CIS 244 Structured Programming (<i>fall only</i>) | 3 | CIS 251 WEB-based Info. Systems (<i>spring only</i>) | 3 |
| CIS 255 Geographic Info. Systems (<i>fall only</i>) | 3 | ECON 221 Bus. Statistics OR MATH 126 Statistics | 3 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| 15 | | 15 | |
| Summer | Credits | | |
| | | | |
| Fall | Credits | Spring | Credits |
| CIS 351 Syst. Analysis, Design, & Impl. I (<i>fall only</i>) | 3 | CIS 352 ^{PR} Syst. Analysis, Design, & Impl. II (<i>sp. only</i>) | 3 |
| CIS 385 Data Communications I (<i>fall only</i>) | 3 | CIS 386 ^{PR} Data Communications II (<i>spring only</i>) | 3 |
| CIS 356 Database Management Syst. (<i>fall only</i>) | 3 | Core Course ¹ | 3 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| Free Elective ³ | 3 | Free Elective ³ | 3 |
| 15 | | 15 | |
| Summer | Credits | | |
| | | | |
| Fall | Credits | Spring | Credits |
| CIS 471 Global Information Systems (<i>fall only</i>) | 3 | CIS 472 IT Project Management (<i>spring only</i>) | 3 |
| CIS 487 Network Security (<i>fall only</i>) | 3 | CIS 499 CIS Internship | 3 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| Core Course ¹ | 3 | Free Elective ³ | 3 |
| Free Elective ³ | 3 | Free Elective ³ | 3 |
| 15 | | 15 | |
| Total Credits Required for Graduation = 121 | | | |

NOTES:

¹Choose one course from each of the Core Requirements listed on the reverse side.

²Course may satisfy both a Major and a Core requirement. MATH 123 will satisfy the Quantitative Reasoning Core requirement.

³Students may select "free electives" for personal enrichment **OR** for Minor and/or Second Major Requirements.

^{PR} Course has a prerequisite – check college catalog.