BACHELOR OF SCIENCE (B.S.)


## Total Credits Required for Graduation $=121$

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

| CS Electives* <br> 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.
${ }^{1}$ Students 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 $19 x$ requirement.
- If a student takes CORE 180, then he/she should choose from $151-158$ to fulfill the $15 x$ requirement AND from $191-198$ to fulfill the $19 x$ 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 18 x requirement.
${ }^{2}$ Students may select "free electives" for personal enrichment OR for Minor and/or Second Major Requirements.
${ }^{3} \mathrm{CS} 117$ 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.


## 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

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 $^{\text {st }}$ Year - Fall | cr. | $1^{\text {st }}$ Year - Spring | cr. |
| :---: | :---: | :---: | :---: |
| CS 116 Fun. of Software Dev. I (fall only) | 3 | CS $117{ }^{3}$ Fun. of Software Dev. II (spring only) | 3 |
| CS 116L Fun. of Software Dev. I Lab (fall only) | 0 | CS 117L Fun. of Software Dev. II Lab (spring only) | 0 |
| MATH 127 Logic \& Axiomatics (fall only) | 3 | MATH 130 Analytical Geometry \& Calculus II | 4 |
| MATH 129 Analytical Geometry \& Calculus I | 4 | CORE 170-179 (Core 178 Imaginative Writing ${ }^{3}$ ) | 3 |
| CORE 110 and/or CIS $106{ }^{2}$ | 3 | CORE 100 Liberal Arts Seminar | 3 |
| CORE 090 First Year Experience | 1 | CORE | 3 |
|  | $14+$ |  | 16 |
| $2^{\text {nd }}$ Year - Fall |  | $2^{\text {nd }}$ Year - Spring |  |
| CS 232 Data Structures (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 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 | CORE | 3 |
| CORE | 3 | CORE | 3 |
| CORE | 3 | CORE | 3 |
|  | 17 |  | 17 |
| $3{ }^{\text {rd }}$ Year - Fall |  | $3{ }^{\text {rd }}$ 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 |
| $4^{\text {th }}$ Year - Fall |  | $4^{\text {th }}$ Year - Spring |  |
| CS 480 Software Engineering | 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 Required for Graduation $=121$

†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).
${ }^{3}$ 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.

