Computer Science (Entrepreneurship Option)

| fall YEAR 1 SPRINg |  | FALL YEAR 2 spring |  |
| :---: | :---: | :---: | :---: |
| *MATH 220 (4) | MATH 221 (4) | C CS300(3) | MATH 510 (3) |
| Analytic Geometry and Calculus I <br> KSC-3 | Analytic Geometry and Calculus II <br> PR: MATH $220 \geq$ C | Data and Program Structures <br> PR: $\operatorname{CIS} 200 \geq C$ | Discrete Mathematics <br> PR: MATH 221 |
| CIS 115 (2) | CIS 200 (4) | CIS 301 (3) | CIS 400 (3) |
| Introduction to Computing Science $\text { PR/CO:CIS } 116$ | Programming Fundamentals PR: CIS 116 PR/CO: MAAHH 205 or 220 $\geq \mathrm{C}$ | Logical Foundations of Programming $\text { PR: } C 15200 \geq C$ | $\qquad$ |
| CIS 116 (1) | ECE 241 (3) | *ENGL 200 (3) | CIS 415 (3) |
| Introduction to Programming | Introduction to Electrical and Computer Engineering | Expository Writing II $\begin{gathered} \text { KSC-1 } \\ \text { PR: ENGL } 100 \\ \hline \end{gathered}$ | Ethics and Conduct for Computing Professionals <br> PR: $\operatorname{CIS} 300 \geq C$ |
| *ENGL 100 (3) | -*Elective (4) | $\triangle$ Elective (4) | $\triangle$ Elective (3) |
| Expository Writing I <br> KSC-1 | Natural Science with laboratory $\qquad$ | Natural Science with laboratory | Unrestricted |
| *COMM 106 (3) |  |  | $\triangle$ Elective (3) |
| Public Speaking $\qquad$ <br> KSC-2 |  |  | Unrestricted |
| * Elective (3) |  |  |  |
| Social and Behavioral Sciences <br> KSC-5 |  |  |  |
| CIS 015 (0) | CIS 018 (0) | CIS 018 (0) | CIS 018 (0) |
| (16 credit hours) | (15 credit hours) | (13 credit hours) | (15 credit hours) |


| FALL YEAR 3 spring |  | FALL YEAR 4 spring |  |
| :---: | :---: | :---: | :---: |
| CIS 308 (1) | STAT 510 (3) | -CIS 596 (3) | ENTRP 575 (3) |
| CLanguage Laboratory $\text { PR: } C I S 300 \geq C$ | Introductory Probability and Statistics I <br> PR:MATH 221 | Entrepreneurial Computer Science Project PR: CIS 560 ENTRPR 3 . SR Standing | Entrepreneurship and Innovation Capstone $\qquad$ <br> PR:JRstanding |
| 7 CIS 501 (3) | CIS 450 (3) | AElective (3) | AElective (3) |
| Software Architecture and Design <br> PR: $\mathrm{Cl} 400 \geq \mathrm{C}$ | Computer Architecture and Operations <br> PR: ECE $241 \geq C$ PR/C0:CIS $308 \geq$ C | Technical | Upper Division |
| CIS 505 (3) | CIS 560 (3) | Alective (3) | AElective (3) |
| Introduction to Programming Languages <br> PR: $C I S 400 \geq C$ | Database System Concepts <br> PR: $\operatorname{CIS} 300 / 301 \geq C$ PR/C0:MATH510 $\geq$ C | Math | Upper division |
| ENTRP 340 (3) | CIS 575 (3) | *Elective (3) | $\triangle$ Elective (3) |
| Business Innovation and the Entrepreneurial Mindset | Introduction to Algorithm Analysis <br> PR: $C I S 300 / 301 \geq C$ PR:MATH $510 \geq C$ | Arts and Humanities $\qquad$ KSC-6 | Upper division |
| *Elective (3) | ENGL 415 (3) | *Elective (3) | * Elective (3) |
| Social and Behavioral Sciences $\qquad$ | $\begin{array}{c}\text { Written Communication } \\ \text { for Engineers } \\ \text { PR: ENGL } 200\end{array}$ <br> OR | Institutional KSC-7 | Institutional KSC-7 |
| *Elective (3) | ENGL516(3) |  |  |
| Arts and Humanities KSC-6 | Communication for the Sciences <br> PR:ENGL 200 |  |  |
| CIS 018 (0) | CIS 018 (0) | CIS 018 (0) | CIS 018 (0) |
| (16 credit hours) | (15 credit hours) | (15 credit hours) | (15 credit hours) |

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## Computer Science Curriculum Notes

To graduate with a B.S. in computer science, students must have at least a 2.3 GPA in all classes at the 400 level or above taken for undergraduate credit from the Carl R. Ice College of Engineering at Kansas State University. Course grades that have been removed by the K-State Retake Policy will not apply to this GPA calculation.
All students new to the CS department must complete CIS 015 .
Additional information is available at
cs.k-state.edu/academics/undergraduate/computer-science.

## Technical Elective

Technical elective must be satisfied by one of the following:

- CIS 520 Operating Systems
- CIS 525 Introduction to Network Programming
- CIS 625 Concurrent Software Systems


## Electives

- Math and Natural Science electives must have departmental approval.
- Upper division electives may be any courses at the 300 level or above.
- Students who satisfy all or part ofk-State Core Institutional Electives (Requirement \#7) with courses that satisfy other degree requirements may use additional unrestricted electives to meet the degree requirement of 120 credit hours.
- Nine credits of unrestricted and/or upper-division electives must be satisfied by courses taken from the additional entrepreneurship courses list at cs.k-state.edu/academics/undergraduate/entrepreneurship.


## Communications Overlay

All students must complete at least two courses (6 hours), which may be used as unrestricted electives or, where applicable, K-State Core requirements, from the following list:

- Any K-State Core Communications course (KSC-2) (3)
- COMM 323 Nonverbal Communication (3)
- COMM 326 Group Communication (3)
- MANGT 220 Principles of Management (3)
- THTRE 261 Fundamentals of Acting (3)
- THTRE 265 Fundamentals of Improvisation I,II (3)


## K-State Core

The K-State Core (KSC) is the university's version of the systemwide general education framework established by the Kansas Board of Regents.
KSC requirement 1 - English (6 hours)
KSC requirement 2 - Communications (3 hours)
KSC requirement 3 - Math and Statistics (3 hours)
KSC requirement 4 - Natural and Physical Sciences ( $4-5$ hours)
KSC requirement 5* - Social and Behavioral Sciences (6 hours)
KSC requirement $6^{*}$ - Arts and Humanities (6 hours)
KSC requirement 7 - Institutional Electives (6 hours)
To view course lists for each requirement, visit k-state.edu/provost/kstate-core.
*Requires two courses from two different subject areas.

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[^0]:    $\triangle=$ Prerequisite for another course $P R=$ Prerequisite requirement $\quad$ PR/C0 $=$ Prerequisite or concurrent requirement * = K -State Core (KSC) course $\quad \triangle=$ See department approved electives =Only offered in the semester shown

