Computer Science (Entrepreneurship Option)

120 credit hours total

FALL YEAR 1 SPRING		FALL YEAR 2 SPRING		FALL YEAR 3 SPRING		FALL YEAR 4 SPRING	
*MATH 220 (4)	MATH 221 (4)	CIS 300 (3)	MATH 510 (3)	CIS 308 (1)	STAT 510 (3)	•CIS 596 (3)	ENTRP 575 (3)
Analytic Geometry and Calculus I	Analytic Geometry and Calculus II	Data and Program Structures	Discrete Mathematics	C Language Laboratory	Introductory Probability and Statistics I	Entrepreneurial Computer Science Project	Entrepreneurship and Innovation Capstone
KSC-3	PR: MATH 220 ≥ C	PR: CIS 200 ≥ C	PR: MATH 221	PR: CIS 300 ≥ C	PR: MATH 221	PR: CIS 560, ENTRP 340 both ≥ C, SR Standing	PR: JR standing
CIS 115 (2)	CIS 200 (4)	CIS 301 (3)	CIS 400 (3)	CIS 501 (3)	CIS 450 (3)	▲Elective (3)	▲Elective (3)
Introduction to Computing Science	Programming Fundamentals	Logical Foundations of Programming	Object-Oriented Design, Implementation and Testing	Software Architecture and Design	Computer Architecture and Operations	Technical	Upper Division
PR/CO: CIS 116	PR: CIS 116 ≥ C PR/CO: MATH 205 or 220 ≥ C	PR: CIS 200 ≥ C	PR: CIS 300 ≥ C	PR: CIS 400 ≥ C	PR: ECE 241 ≥ C PR/C0: CIS 308 ≥ C		
CIS 116 (1)	ECE 241 (3)	*ENGL 200 (3)	CIS 415 (3)	CIS 505 (3)	CIS 560 (3)	▲Elective (3)	▲Elective (3)
Introduction to Programming	Introduction to Electrical and Computer Engineering	Expository Writing II	Ethics and Conduct for Computing Professionals	Introduction to Programming Languages	Database System Concepts	Math	Upper division
		KSC-1 PR: ENGL 100	PR: CIS 300 ≥ C	PR: CIS 400 ≥ C	PR: CIS 300/301 ≥ C PR/CO: MATH 510 ≥ C		
*ENGL 100 (3)	▲*Elective (4)	▲Elective (4)	▲Elective (3)	ENTRP 340 (3)	CIS 575 (3)	*Elective (3)	▲ Elective (3)
Expository Writing I	Natural Science with laboratory	Natural Science with laboratory	Unrestricted	Business Innovation and the Entrepreneurial Mindset	Introduction to Algorithm Analysis	Arts and Humanities	Upper division
KSC-1	KSC-4				PR: CIS 300/301 ≥ C PR: MATH 510 ≥ C	KSC-6	
*COMM 106 (3)			▲Elective (3)	*Elective (3)	ENGL 415 (3)	*Elective (3)	*Elective(3)
Public Speaking			Unrestricted	Social and Behavioral Sciences	Written Communication for Engineers	Institutional	Institutional
KSC-2				KSC-5	PR: ENGL 200 OR	KSC-7	KSC-7
* Elective (3)				*Elective (3)	ENGL 516 (3)		
Social and Behavioral Sciences				Arts and Humanities	Communication for the Sciences		
KSC-5				KSC-6	PR: ENGL 200		
CIS 015 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)	CIS 018 (0)
(16 credit hours)	(15 credit hours)	(13 credit hours)	(15 credit hours)	(16 credit hours)	(15 credit hours)	(15 credit hours)	(15 credit hours)



 ✓ = Prerequisite for another course
 PR = Prerequisite requirement
 PR/C0 = Prerequisite or concurrent requirement

 ※ = K-State Core (KSC) course
 ▲ = See department approved electives
 ■ = Only offered in the semester shown

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 of K-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.