COMPUTER SYSTEMS TECHNOLOGY

2023-24 STUDY GUIDE

About this degree option

The computer systems technology degree option teaches students design and problem-solving abilities by focusing on networking, computer hardware, commercial software and programming languages. Students experience integrated learning through state-of-the-art studio classes in which students connect the dots between various concepts, skills and technologies to experience how their education fits together and is applied to their future work careers. A two-semester capstone project allows students to perfect their skills and implement them in realistic computer systems, demonstrating their education to potential employers.

Why this degree option

K-State Salina offers a variety of advantages, including:

- **Ability to design, develop and administrate a state-of-the-art networking lab to solve complex network and server-level problems.**
- **Understanding of computer programming applications, database administration, computer networking and operating systems; as well as science, mathematics, communications and business courses.**
- **Expanding experience to technologies beyond the web such as mobile devices, robots, network programming, Windows desktop programming and web analytics.**

Careers

Possible career options:

- **Computer Programmer**
- **Computer System Analyst**
- **Data Analyst**
- **Database Applications Specialist**
- **Network & Computer Systems Administrator**
- **Software Developer**
- **Web Developer**

Accreditation

We take our reputation seriously. Accreditation validates the quality of an institution as a whole, offering evaluated measurements of everything from academic offerings, governance, administration, mission, finances and resources. Kansas State University has been continuously accredited by the Higher Learning Commission (HLC) since 1916.
k-state.edu/assessment/accreditation

Transfers

At K-State Salina, you can transfer up to 60 qualifying credit hours to help you get your next degree. If you've already earned an associate degree from one of our partner institutions, you may be eligible to apply previously earned credits when enrolling in a related bachelor's degree option. We work with students every day to make the most of transfer credits within K-State Salina programs to help make earning that next degree more achievable. Your hard work matters. We want to help you make the most of it.

AN AEROSPACE & TECHNOLOGY EDUCATION IS:

INNOVATIVE LEARNING:
Learning by doing, through hands-on projects, lab time and in-the-field training.

REAL-WORLD EXPERIENCE:
Exploring innovations in your field through research, practicum and internship opportunities.

INDUSTRY CONNECTIONS:
Building relationships with industry members and gaining insight into your future career.

STUDENT-FOCUSED:
Faculty are focused on your personalized experience, working alongside you in the lab and classroom.

KANSAS STATE UNIVERSITY | Salina Aerospace and Technology Campus

Office of Admissions:
785-826-2640 | salinaadmissions@k-state.edu

Bachelor of Science

120 credit hours required

Required coursework

Core courses:

CMST 103	Computing Principles	3
CMST 135	Web Fundamentals	3
CMST 180	Introduction to Database Systems	3
CMST 183	Computer Systems Studio I	1
CMST 185	Computer Systems Studio II	1
CMST 247	Programming I	3
CMST 250	Hardware & Network Fundamentals	3
CMST 252	Systems & Software Fundamentals	3
CMST 283	Computer Systems Studio III	1
CMST 315	Introduction to System Administration	3
CMST 332	Web Development Project	3
CMST 333	Computer Systems Portfolio Defense	1
CMST 335	Programming II	3
CMST 383	Programming & Data Structures Studio*	3-6
CMST 385	System & Database Administration Studio*	3-6
CMST 460	Software Engineering	3
CMST 483	Emerging Technologies Studio*	3-6
CMST 485	Computer Systems Senior Capstone Project	6
DIGME 137	Fundamentals of Visual Communication	3
	Total	**61**

Other courses may be substituted if approved by the BETB-CP program coordinator.

***Students may substitute up to 9 credits of studio with appropriate courses as approved by the BETB-CP program coordinator.**

Math:

Choose 9 credit hours from the following courses.

MATH 100	College Algebra	3
MATH 150	Plane Trigonometry	3
MATH 205	General Calculus & Linear Algebra	3
MATH 220	Analytic Geometry & Calculus I	4
MATH 221	Analytic Geometry & Calculus II	4
MATH 222	Analytic Geometry & Calculus III	4

Other math courses may be substituted if approved by the BETB-CP program coordinator.

Additional requirements:

COMM 106	Public Speaking I	3
ENGL 100	Expository Writing I	3
ENGL 200	Expository Writing II	3
ENGL 302	Technical Writing	3
PHILO 105	Introduction to Critical Thinking	3
STAT 325	Introduction to Statistics	3
COT 480	Professional Conduct, Ethics & Analysis	3
	Total	**21**

Electives:

Business Elective	3
Business Elective	3
Humanities Elective	3
Humanities Elective	3
Social Science Elective	3
Social Science Elective**	3
Science Elective	4
Science Elective	4
Unrestricted Elective	3
Total	**29**

****Marked electives must be upper-level courses, 300 or above.**

For full course descriptions, visit ***courses.k-state.edu***

5/23

Notice of Nondiscrimination
Kansas State University is committed to nondiscrimination in admissions, programs and employment. Inquiries and complaints: Contact Director of Institutional Equity, Kansas State University, 103 Edwards Hall, Manhattan, KS 66506-4801, (Phone) 785-532-6220; (TTY) 785-532-4807.

Post-Graduation Statistics
k-state.edu/postgrad-stats | ksdegreestats.org