FOUR-YEAR PLAN

Computer Information Systems, B.S.

15toFinish

CONCORD UNIVERSITY

Semester 1

Course	Credits	Grade		✔
ENGL 101: Composition & Rhetoric I	3	C*	🏳	☐
General Education Course	3			☐
General Education Course	2-3			☐
CS 151: Introduction to Computer Science	3		🏳	☐
MATH 103: College Algebra	3			☐
UNIV 100: CU Foundations	1			☐

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Semester 2

Course	Credits	Grade		✔
ENGL 102: Composition & Rhetoric II	3	C*	🏳	☐
General Education Course	3			☐
CS 252: Data Structures & Object Oriented Programming	3			☐
CS 282: Database and Information Management	3			☐
MATH 104: College Trigonometry	3			☐

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Semester 3

Course	Credits	Grade	✔
General Education Course	3		☐
CS 272: Human Centered Design	3		☐
CS 281: Linux System Administration	3		☐
CS 351: Web Development	3		☐
MATH 253: Calculus with Analytic Geometry I	4		☐

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Semester 4

Course	Credits	Grade	✔
General Education Course	3		☐
CS 221: Computer Networking	3		☐
CS 232: Introduction to Computer Security	3		☐
MATH 219: Discrete Mathematics	3		☐
Elective or Concentration Course	3		☐

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The **Bachelor of Science in Computer Information Systems** curriculum is designed to give students a strong background in computing that they can then apply to an area of interest. The core prepares students for a wide variety of careers and graduate school, but students can also choose one of five concentrations in which to specialize.

CONCENTRATIONS

Each of the elective CIS concentrations is designed for different career interests:

- **Accounting and Control**
- **Geospatial Science**
- **Information Technology**
- **Management**
- **Web**

MILESTONE COURSES
Courses marked as Milestone Courses are crucial for staying on track to complete your degree in four years. Take them in the recommended semester to stay on track! If you see a recommended minimum grade, this is the grade you need to earn to have the best chance for success in this degree! Grades marked with an asterisk are required to pass.

Helpful Hints

- CS 151 is prerequisite to all other computer science courses.
- Only offered Fall semester, every year: CS 272.
- Only offered Fall semester, every other year: CS 281, CS 351.
- Only offered Spring semester, every year: CS 232, CS 252, CS 282, MATH 219.
- Only offered Spring semester, every other year: CS 221.

Semester 5

Course	Credits	Grade	✔
CS 253: Software Engineering	3		☐
CS 283: Data Analytics	3		☐
CS 325: Computer Organization and Hardware	3		☐
CS 381: System Analysis and Design	3		☐
Elective or Concentration Course	3		☐

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Semester 6

Course	Credits	Grade	✔
General Education Course	3		☐
General Education Course	3		☐
CS 332: Network Security	3		☐
CS 374: Introduction to Simulation and Modeling	3		☐
Elective or Concentration Course	3		☐

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Semester 7 🏆

Course	Credits	Grade	✔
General Education Course	3-4		☐
General Education Course	3		☐
CS: 456: Capstone Project	2	🏆	☐
Elective or Concentration Course	3		☐
Elective or Concentration Course	3		☐

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Semester 8 🏆

Course	Credits	Grade	✔
General Education Course	3-4		☐
CS 384: DevOps	3		☐
CS 456: Capstone Project	2	🏆	☐
Elective or Concentration Course	3		☐
Elective or Concentration Course	3		☐

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You're FINISHED!!

ADVISING

When you choose to pursue this degree, you will be assigned an advisor who is an expert in the field of Computer Information Systems. This advisor can help you with course selection, career planning, resume building, and help you tracking your path to degree completion.

CAREERS

With a degree in Computer Information Systems, you will be trained for careers such as: Computer Support Specialist; Network & Computer Systems Administrator; Database Administrator; Web Developer; Computer Systems Analyst.

STUDENT ORGANIZATIONS

Coding Coalition

COMPLEMENTARY MINORS

CIS pairs well with most minors.
The **Accounting and Control**, and **Management** concentrations pair well with a double major in **Business Administration**. The **Geospatial Science** concentration is ideal for a minor or double major in **Geography.**
The **Web** concentration pairs well with a minor or double major in **Advertising/ Graphic Design** or **Studio Art**.

CAPSTONE

The Computer Information Systems degree culminates in a Capstone Project. Students will take two consecutive semesters of CS 456 to fulfill this requirement.

Helpful Hints

- Only offered Fall semester, every year: CS 325.
- Only offered Fall semester, every other year: CS 253, CS 283, CS 381.
- Only offered Spring semester, every other year: CS 332, CS 374, CS 384.