



# Springfield College Sequencing Guide Computer and Information Sciences Major (CISC) ▼ 2023-2024

Requirements are subject to change and may not be offered when listed. Use your online degree audit to verify your progress with your advisor

## Core Curriculum Requirements, Electives, and College Requirements

In addition to the major requirements listed below, you will need to fill the following Core Curriculum categories:

- 100-level Wellness & Physical (1 cr)
- 200-level Wellness & Physical (1 cr)
- 300-level Wellness & Physical (1 cr)
- Literature (3 cr)
- Quantitative Reasoning (3 cr)
- Scientific Reasoning (4 cr)
- Spiritual and Ethical (3 cr)
- Aesthetic Expression (3 cr)
- Historical and Social (3 cr)
- Themed Explorations (9 cr)
  - 3 different prefixes
  - 1 Global course

This major typically requires 48-51 credits to complete. In addition to the Core Curriculum and major requirements listed, you must complete:

- **29-32 elective credits or more** to total at least 120 credits
- A **minimum cumulative GPA** of 2.000 or higher
- The **residency requirement**—45 credits taken at Springfield College (including 15 of your last 30)

## Wellness Passport Stamps

All students must complete **24 stamps** upon successful completion of a WLPL 300-level course. Students must complete a minimum of 8 stamps in each of the following domains:

- Mental Wellness     Physical Wellness     Meaning and Purpose Wellness

## CISC Major Requirements – Typical First-Year Schedule

### Fall:

SCSM 101, Springfield College Seminar (Core requirement – 3 cr)

ENGL 113, College Writing I (Core requirement – 3 cr)

Plus other Core and major requirements, or electives to total approximately 15 credits

### Spring:

ENGL 114, College Writing II (Core requirement – 3 cr)

Plus other Core and major requirements or electives to total 30 credits for the year

### Fall or Spring:

CISC 115, Microcomputer Applications (3 cr)

## CISC Major Requirements – Typical Second-Year Schedule

### Fall or Spring:

CISC 175, Introduction to Computer Sciences with C++ (3 cr)

CISC 275, Data Structures Using C++ (3 cr)

CISC 315, Database Development and Management (3 cr)

MATH 235, Discrete Mathematics I (3 cr)

Plus Core and major requirements, or electives to total 30 credits for the year

## CISC Major Requirements – Typical Third-Year Schedule

### Fall or Spring:

CISC 482, Computer Systems Seminar (3 cr)

Plus Core and major requirements, or electives to total 30 credits for the year

## CISC Major Requirements – Typical Fourth-Year Schedule

### Fall or Spring:

There are no major requirements specifically recommended for your fourth year. You should select any outstanding major requirements, Core, or electives to total a minimum of 120 credits for your career

### Additional CISC Major Requirements – Flexible Timing

You must complete **one** of the following:

Select 10 courses (30 credits) from the following:

- ARTS 231, 3-D Animation (3 cr)
- ARTS 233, 3-D Video Game Design (3 cr)
- ARTS 320, Advanced Web Design (3 cr)
- BUSM 150, Introduction to Business (3 cr)
- BUSM 215, Principles of Management (3 cr)
- BUSM 221, Principles of Marketing (3 cr)
- BUSM 250, Business Communications (3 cr)
- CISC 120, Introduction to Programming Using Mobile Technology (3 cr – strongly recommended as an elective)
- CISC 125, Data Analysis Using R (3 cr)
- CISC 165, Visual Programming Concepts (3 cr – spring only course)
- CISC 215, Python Programming (3 cr)
- CISC 420, Software Engineering for Game Programming (3 cr)
- MATH 125, Precalculus Mathematics (3 cr – also fills Quantitative Reasoning Core Curriculum)
- MATH 215, Probability and Statistics (3 cr)
- MATH 310, Linear Algebra (3 cr)
- Any 200 – Level or higher CISC Course

Complete the following courses at Springfield Technical Community College (through CCGS—Cooperating Colleges of Greater Springfield):

- CIT 160, Networks 1 (3 cr)
- CIT 161, Networks 2 (3 cr)
- CIT 162, Networks 3: Advanced Networks Topics (3 cr)
- CIT 250, Internet/Network Security 1 (3 cr)
- CIT 251, Internet/Network Security 2 (3 cr)
- CIT 252, Advanced Security Topics (3 cr)

#### **Internet and Network Security Concentration:**

Select 9 courses (27 credits) from the following:

- CISC 120, Introduction to Programming Using Mobile Technology (3 cr – strongly recommended as an elective)
- CISC 210, Fundamentals of Operating Systems (3 cr)
- CISC 375, Computer Architecture (3 cr)

Complete the following courses at Springfield Technical Community College (through CCGS—Cooperating Colleges of Greater Springfield):

- CIT 160, Networks 1 (3 cr)
- CIT 161, Networks 2 (3 cr)
- CIT 162, Networks 3: Advanced Networks Topics (3 cr)
- CIT 250, Internet/Network Security 1 (3 cr)
- CIT 251, Internet/Network Security 2 (3 cr)
- CIT 252, Advanced Security Topics (3 cr)

### CISC Major – Program Standards

Program standards for the CISC major include, but are not limited to:

- A minimum cumulative GPA of 2.500
- Achieve a minimum cumulative GPA of 2.500 in program requirements
- Complete all program requirements with a grade of C- or better