



Springfield College Sequencing Guide Computer and Information Sciences Major ▼ 2017-2018

If you are a Computer and Information Sciences major who matriculated to Springfield College in 2017-2018, use this as a guide for sequencing your courses. Requirements listed on this guide are subject to change and may not be offered when listed—use your online degree audit for the most accurate information. Always confirm your plans with your advisor, and consult your advisor or chairperson if you have any questions.

CISC Major – Typical First-Year Schedule

Fall:

ENGL 113, College Writing I (3 cr – fills half College Writing GenEd)
Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total approximately 15 credits

Spring:

ENGL 114, College Writing II (3 cr – fills half College Writing GenEd)
CISC 175, Introduction to Computer Science with C++ and Java (3 cr – also fills Computer Technology GenEd)
Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total 30 credits for the year

Fall or Spring:

CISC 115, Microcomputer Applications (3 cr)
CISC 120, Introduction to Programming Using Mobile Technology (3 cr – strongly recommended as an elective)
MATH course(s) appropriate for your intended concentration
HLTH 100, Wellness: A Way of Life (3 cr – fills Health and Wellness GenEd)

CISC Major – Typical Second-Year Schedule

Fall or Spring:

CISC 275, Data Structures Using C++ (3 cr)
CISC 315, Database Development and Management (3 cr)
MATH 235, Discrete Mathematics I (3 cr)
Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total 30 credits for the year

CISC Major – Typical Third-Year Schedule

Fall or Spring:

CISC 482, Computer Systems Seminar (3 cr – also fills half of WAC GenEd)
Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total 30 credits for the year

CISC Major – 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, GenEds, or electives to total a minimum of 120 credits for your career

Requirements continued on next page

Additional CISC Requirements – Flexible Timing

In general, 100-level courses should be taken first or second year, 200-level courses can be taken first year or later, and 300-level can be taken second year or later. As courses may not be offered every year, 300- and 400-level courses should be taken third year if offered. Check course descriptions for specific prerequisites.

Required for all CISC majors:

ENGL 305, Writing for the Professions (3 cr – also fills half of WAC GenEd, take 2nd, 3rd or 4th year)

In addition, you must complete **one** of the following concentrations:

Systems Management:

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 165, Programming in BASIC (3 cr)
CISC 316, Advanced Database Development and Management (3 cr)
CISC 320, Systems Analysis and Software Design (3 cr)
MATH 215, Probability and Statistics (3 cr – also fills Quantitative Reasoning GenEd)

Software Development:

CISC 165, Programming in BASIC (3 cr)
CISC 280, Object-Oriented Programming with JAVA (3 cr)
CISC 375, Computer Architecture (3 cr)
CISC 410, Fundamentals of Operating Systems (3 cr)
CISC 420, Software Engineering for Game Programming (3 cr)
MATH 125, Precalculus Mathematics (3 cr – also fills Quantitative Reasoning GenEd)
MATH 310, Linear Algebra (3 cr)

Internet and Network Security:

CISC 375, Computer Architecture (3 cr)
CISC 410, Fundamentals of Operating Systems (3 cr)

In addition, complete the following courses at Springfield Technical Community College (through CCGS—Cooperating Colleges of Greater Springfield):

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

In addition, complete the appropriate MATH course(s) to prepare for MATH 235 (and to fill the Quantitative Reasoning GenEd).

CISC 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

GenEd Requirements, Electives, and College Requirements

Depending on your concentration, this major typically requires 42 to 45 credits to complete. In addition to the requirements previously listed, you must complete:

- **Additional GenEds:** Literary Studies, Visual/Performing Arts, Spiritual/Ethical Dimensions, Natural Sciences, Historical/Cultural Studies, Behavioral/Social Sciences, International/Multicultural Studies, Social Justice, and Physical Activity. If you select the Internet and Network Security concentration, you will also need to fulfill Quantitative Reasoning.
- **32 to 38 elective credits or more** (depending on which GenEds and concentration you select) to total at least 120 credits
- The **residency requirement**—60 credits taken at Springfield College (including 15 of your last 30)