### GEM 1 Written Communication
- **ENGL 101, Writing and Rhetoric I** 3 cr
- **ENGL 102, Writing and Rhetoric II** 3 cr
- **COMM 101, Fundamentals of Oral Comm** 3 cr
- **GEM 3 Mathematical Ways of Knowing** 3-5 cr
- **GEM 4 - Science (two disciplines)** 8 cr

### GEM 2 Oral Communication
- **CS 360, Database Systems** 3 cr
- **CS 383, Software Engineering** 4 cr
- **CS 385, Theory of Computation** 3 cr
- **CS 395, Analysis of Algorithms** 3 cr

### GEM 3 Mathematical Ways of Knowing
- **CS 401, Contemporary Issues in CS** 1 cr
- **CS 445, Compiler Design** 4 cr
- **CS 480, 481, Senior Capstone Design** 6 cr

### GEM 4 - Science (two disciplines)
- **MATH 175, Analytic Geometry and Calculus II** 4 cr
- **MATH 187, Analytic Geometry and Calculus III** 4 cr
- **MATH 330, Linear Algebra** 3 cr

### GEM 5 - Humanistic/Artistic (two disciplines)
- **ENGL 317, Tech Writing (ENGL 202 @ NIC)** 3 cr
- **Math 330, Linear Algebra (+MATH 335 @ NIC)** 3 cr
- **Math 335, Linear Algebra (+MATH 335 @ NIC)** 3 cr

### GEM 6 - Social/Behavioral (two disciplines)
- **STAT 301, Probab & Stats (+MATH 253 @ NIC)** 3 cr
- **Upper Division Computer Science Courses** 12 cr

### OTHER REQUIRED COURSES FOR YOUR MAJOR
- **CS 150, 151, 155, 210, 241, 270** 20 cr
- **ENGL 202, Technical Writing** 3 cr
- **MATH 143, Analytic Geometry and Calculus I** 3 cr

### OTHER REQUIRED COURSES FOR YOUR MAJOR
- **Upper Division Computer Science Courses** 12 cr
  - except CS 398, 400, 401, 431, 499

### PREREQUISITES
- The + indicates the course has a prerequisite.

### NOTES & REQUIREMENTS
- Students planning on transferring to U of I are advised to complete an A.S. (minimum 60 credits) at NIC.
- Students can concurrently enroll at U of I while completing an NIC degree.
- Students must earn a C in all lower-division CS courses, as well as +MATH 170, 175, and 187.

### NOTES & REQUIREMENTS
- 120 credits are required for a B.S.C.S., not including ENGL 101, MATH 143, and other deficiency courses.
- A minimum of 36 upper division credits are required, with 30 from U of I.

Advising Guide information is subject to change and does not constitute an agreement between the university and student.

*modified 1/22/21*