

**2008-10 Catalog Paradigm
Computer Science
Computer Science Concentration**

| First Year | |
|-------------------|--|
| 1. | CSCI 110 (1 st semester) Prereq – MATH 115 |
| 2. | CSCI 205 (2 nd semester) Prereq – CSCI 110, MATH 131 or 124, or Instructor's consent |
| 3. | MATH 131 (GS8) (1 st semester) Prereq – 4 yrs college prep math in HS or MATH 115 |
| 4. | MATH 132 (2 nd semester) Prereq – MATH 131 or 124 |
| 5. | General Education |
| 6. | General Education |
| 7. | General Education |
| 8. | General Education |

| Second Year | |
|--------------------|--|
| 1. | CSCI 225 (1 st semester) Prereq – CSCI 205 |
| 2. | CSCI 220 (2 nd semester) Prereq – CSCI 205 |
| 3. | MATH 250 (2 nd semester) Prereq – MATH 132 |
| 4. | General Education |
| 5. | General Education |
| 6. | General Education |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

| Third Year | |
|-------------------|--|
| 1. | CSCI 322 (1 st semester) Prereq – CSCI 220 AND 225 |
| 2. | CSCI 370 (2 nd semester) Prereq – CSCI 220 AND 225 |
| 3. | CSCI Application |
| 4. | General Education |
| 5. | General Education |
| 6. | Elective/Minor |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

| Fourth Year | |
|--------------------|--|
| 1. | CSCI 321 or CSCI 323 (1 st semester) Prereq – CSCI 220 AND MATH 250 |
| 2. | CSCI 460 (2 nd semester) Prereq – CSCI 321 or 323, 322, 370, Senior Standing, and Instructor's consent |
| 3. | General Education |
| 4. | General Education |
| 5. | Elective/Minor |
| 6. | Elective/Minor |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

Elective/Minor courses can be used to take additional major courses, free electives, or to fulfill a minor.

1. If necessary, a student may take CSCI 110 in the second semester of their first year, CSCI 205 in the first semester of their second year, and CSCI 225 in the first semester of their third year.
2. CSCI courses numbered 3xx can be taken after successfully completing prerequisites, although it is important to note that many courses are offered once per year or once every other year.
3. For detailed information about course offerings, a check sheet, and prerequisites, go to <http://www.snc.edu/compsci> and choose **Programs** from the top menu bar.
4. Students considering graduate school should consult with a computer science faculty member.

Progress Sheet

Computer Science

Computer Science Concentration

| | |
|--|---|
| Student Name: Student ID: | |
| General Education – Lower Biennium | Major |
| <input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS2 – Philosophy of Human Nature _____ <input type="checkbox"/> GS3 – Human Relationships _____ <input type="checkbox"/> GS4 – Natural Science _____ <input type="checkbox"/> GS5 – Creative Expression _____ <input type="checkbox"/> GS6 – United States Heritage _____ <input type="checkbox"/> GS7 – Foreign Heritages _____ <input type="checkbox"/> GS8 – Quantitative Skills _____ <input type="checkbox"/> GS9 – Writing _____ | <p>Required Courses:</p> <input type="checkbox"/> CSCI 110 – Introduction to Computer Programming <input type="checkbox"/> CSCI 205 – Software Engineering and Elementary Data Structures <input type="checkbox"/> CSCI 220 – Advanced Data and File Structures <input type="checkbox"/> CSCI 225 – Machine Organization and Assembly Language <input type="checkbox"/> CSCI 322 – Programming Languages <input type="checkbox"/> CSCI 370 – Introduction to Operating Systems <input type="checkbox"/> CSCI 460 – Senior Capstone Experience in Computer Science <input type="checkbox"/> MATH 131 – Calculus and Analytic Geometry I <input type="checkbox"/> MATH 132 – Calculus and Analytic Geometry II <input type="checkbox"/> MATH 250 – Advanced Foundations of Mathematics <p>Theory Electives (at least one theory elective must be completed). <input type="checkbox"/> CSCI 321 – Analysis of Algorithms <input type="checkbox"/> CSCI 323 – Theory of Computation</p> <p>Application Electives (at least one application elective must be completed). <input type="checkbox"/> CSCI 330 – Database Techniques and Modeling <input type="checkbox"/> CSCI 340 – Artificial Intelligence <input type="checkbox"/> CSCI 347 – Robotics and Real-Time Processing <input type="checkbox"/> CSCI 350 – Event and Windows Programming <input type="checkbox"/> CSCI 373 – Communication/Networks <input type="checkbox"/> CSCI 450 – Special Topics <input type="checkbox"/> CSCI 495 – Independent Study</p> |
| General Education – Upper Biennium | |
| <input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS10 – Western Tradition _____ <input type="checkbox"/> GS11 – Global Society _____ <input type="checkbox"/> GS12 – Senior Colloquium (GENS 400) _____ | <p>Note –</p> <ol style="list-style-type: none"> 1. If necessary, a student may take CSCI 110 in the second semester of their first year, CSCI 205 in the first semester of their second year, and CSCI 225 in the first semester of their third year. 2. CSCI courses numbered 3xx can be taken after successfully completing prerequisites, although it is important to note that many courses are offered once per year or once every other year. 3. For detailed information about course offerings, a check sheet, and prerequisites, go to http://www.snc.edu/compsci and choose Programs from the top menu bar. 4. Students considering graduate school should consult with a computer science faculty member. |

**2008-10 Catalog Paradigm
Computer Science
Business Information Systems Concentration**

| First Year | |
|-------------------|--|
| 1. | CSCI 110 (1 st semester) Prereq – MATH 115 |
| 2. | CSCI 205 (2 nd semester) Prereq – CSCI 110, MATH 131 or 124, or Instructor’s consent |
| 3. | MATH 124 or MATH 131 (GS8) (1 st semester) Prereq – 4 yrs college prep math in HS or MATH 115 |
| 4. | General Education |
| 5. | General Education |
| 6. | General Education |
| 7. | General Education |
| 8. | General Education |

| Second Year | |
|--------------------|---|
| 1. | CSCI 225 (1 st semester) Prereq – CSCI 205 |
| 2. | CSCI 220 (2 nd semester) Prereq – CSCI 205 |
| 3. | ACCT 205 Prereq – sophomore standing |
| 4. | BUAD 284 Prereq – MATH 114 or 115 (MATH 115 for BUAD majors) |
| 5. | General Education |
| 6. | General Education |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

| Third Year | |
|-------------------|--|
| 1. | CSCI 330 (1 st semester) Prereq – CSCI 220 |
| 2. | CSCI 3xx |
| 3. | BUAD 230 Prereq – sophomore standing |
| 4. | BUAD 270 Prereq – sophomore standing |
| 5. | General Education |
| 6. | General Education |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

| Fourth Year | |
|--------------------|--|
| 1. | BUAD 345 (1 st semester) Prereq – BUAD 142 or CSCI major |
| 2. | BUAD 3xx |
| 3. | CSCI 460 (2 nd semester) Prereq – CSCI 321 or 323, 322, 370, Senior Standing, and Instructor’s consent |
| 4. | General Education |
| 5. | General Education |
| 6. | Elective/Minor |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

Elective/Minor courses can be used to take additional major courses, free electives, or to fulfill a minor.

1. If necessary, a student may take CSCI 110 in the second semester of their first year, CSCI 205 in the first semester of their second year, and CSCI 225 in the first semester of their third year.
2. CSCI courses numbered 3xx can be taken after successfully completing prerequisites, although it is important to note that many courses are offered once per year or once every other year.
3. For detailed information about course offerings, a check sheet, and prerequisites, go to <http://www.snc.edu/compsci> and choose **Programs** from the top menu bar.
4. Students considering graduate school should consult with a computer science faculty member.

Progress Sheet
Computer Science
Business Information Systems Concentration

| | |
|---|--|
| Student Name: Student ID: | |
| General Education – Lower Biennium | Major |
| <input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS2 – Philosophy of Human Nature _____ <input type="checkbox"/> GS3 – Human Relationships _____ <input type="checkbox"/> GS4 – Natural Science _____ <input type="checkbox"/> GS5 – Creative Expression _____ <input type="checkbox"/> GS6 – United States Heritage _____ <input type="checkbox"/> GS7 – Foreign Heritages _____ <input type="checkbox"/> GS8 – Quantitative Skills _____ <input type="checkbox"/> GS9 – Writing _____ _____ | Required Courses: <input type="checkbox"/> CSCI 110 – Introduction to Computer Programming <input type="checkbox"/> CSCI 205 – Software Engineering and Elementary Data Structures <input type="checkbox"/> CSCI 220 – Advanced Data and File Structures <input type="checkbox"/> CSCI 225 – Machine Organization and Assembly Language <input type="checkbox"/> CSCI 330 – Database Techniques and Modeling <input type="checkbox"/> CSCI 3xx – CSCI elective, numbered 300 or above (exclude CSCI 310) <input type="checkbox"/> CSCI 460 – Senior Capstone Experience in Computer Science <input type="checkbox"/> MATH 124 or MATH 131 – Survey of Calculus or Calculus and Analytic Geometry I <input type="checkbox"/> BUAD 205 – Financial Accounting <input type="checkbox"/> BUAD 230 – Foundations of Management <input type="checkbox"/> BUAD 270 – Marketing Concepts and Issues <input type="checkbox"/> BUAD 284 or MATH 321 – Statistics for Business and Economics or Probability and Statistics <input type="checkbox"/> BUAD 345 – Business Applications Using Systems Analysis and Design <input type="checkbox"/> BUAD 3xx – BUAD elective numbered 300 or above |
| General Education – Upper Biennium | |
| <input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS10 – Western Tradition _____ <input type="checkbox"/> GS11 – Global Society _____ <input type="checkbox"/> GS12 – Senior Colloquium (GENS 400) _____ _____ | Note – 1. If necessary, a student may take CSCI 110 in the second semester of their first year, CSCI 205 in the first semester of their second year, and CSCI 225 in the first semester of their third year. 2. CSCI courses numbered 3xx can be taken after successfully completing prerequisites, although it is important to note that many courses are offered once per year or once every other year. 3. For detailed information about course offerings, a check sheet, and prerequisites, go to http://www.snc.edu/compsci and choose Programs from the top menu bar. 4. Students considering graduate school should consult with a computer science faculty member. RELATED MINORS - MATH MINOR=electives MATH 132, 233, 250, and 3xx, and take MATH 321 instead of BUAD 284. BUSINESS MINOR=electives ECON 102, BUAD 142, and BUAD 350. |

**2007-08 Catalog Paradigm
Computer Science**

Graphic Design and Implementation Concentration

| First Year | |
|-------------------|--|
| 1. | CSCI 110 (1 st semester) Prereq – MATH 115 |
| 2. | CSCI 205 (2 nd semester) Prereq – CSCI 110, MATH 131 or 124, or Instructor’s consent |
| 3. | MATH 124 or MATH 131 (GS8) (1 st semester) Prereq – 4 yrs college prep math in HS or MATH 115 |
| 4. | ART 134 (1 st semester) |
| 5. | ART 135 (2 nd semester) Prereq – ART 134 |
| 6. | General Education |
| 7. | General Education |
| 8. | General Education |

| Second Year | |
|--------------------|---|
| 1. | CSCI 225 (1 st semester) Prereq – CSCI 205 |
| 2. | CSCI 220 (2 nd semester) Prereq – CSCI 205 |
| 3. | ART 280 or ART 335 Prereq for 280 – ART 135; for 335 – ART 350 |
| 4. | General Education |
| 5. | General Education |
| 6. | General Education |
| 7. | General Education |
| 8. | Elective/Minor |

| Third Year | |
|-------------------|--|
| 1. | ART 350 (1 st semester) Prereq – ART 135 |
| 2. | CSCI 350 Prereq – CSCI 205 |
| 3. | General Education |
| 4. | General Education |
| 5. | Elective/Minor |
| 6. | Elective/Minor |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

| Fourth Year | |
|--------------------|--|
| 1. | ART 485 (1 st semester) Prereq – ART 350 |
| 2. | CSCI 3xx |
| 3. | CSCI 460 (2 nd semester) Prereq – CSCI 321 or 323, 322, 370, Senior Standing, and Instructor’s consent |
| 4. | General Education |
| 5. | General Education |
| 6. | Elective/Minor |
| 7. | Elective/Minor |
| 8. | Elective/Minor |

Elective/Minor courses can be used to take additional major courses, free electives, or to fulfill a minor.

1. If necessary, a student may take CSCI 110 in the second semester of their first year, CSCI 205 in the first semester of their second year, and CSCI 225 in the first semester of their third year.
2. CSCI courses numbered 3xx can be taken after successfully completing prerequisites, although it is important to note that many courses are offered once per year or once every other year.
3. For detailed information about course offerings, a check sheet, and prerequisites, go to <http://www.snc.edu/compsci> and choose **Programs** from the top menu bar.
4. Students considering graduate school should consult with a computer science faculty member.

Progress Sheet
Computer Science
Graphic Design and Implementation Concentration

| | |
|--|---|
| Student Name: Student ID: | |
| General Education – Lower Biennium | Major |
| <input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS2 – Philosophy of Human Nature _____ <input type="checkbox"/> GS3 – Human Relationships _____ <input type="checkbox"/> GS4 – Natural Science _____ <input type="checkbox"/> GS5 – Creative Expression _____ <input type="checkbox"/> GS6 – United States Heritage _____ <input type="checkbox"/> GS7 – Foreign Heritages _____ <input type="checkbox"/> GS8 – Quantitative Skills _____ <input type="checkbox"/> GS9 – Writing _____ | Required Courses: <input type="checkbox"/> CSCI 110 – Introduction to Computer Programming <input type="checkbox"/> CSCI 205 – Software Engineering and Elementary Data Structures <input type="checkbox"/> CSCI 220 – Advanced Data and File Structures <input type="checkbox"/> CSCI 225 – Machine Organization and Assembly Language <input type="checkbox"/> CSCI 3xx – CSCI elective, numbered 300 or above (exclude CSCI 310) <input type="checkbox"/> CSCI 350 – Event Programming within a Windowing Environment <input type="checkbox"/> CSCI 460 – Senior Capstone Experience in Computer Science <input type="checkbox"/> MATH 124 or MATH 131 – Survey of Calculus or Calculus and Analytic Geometry I <input type="checkbox"/> ART 134 – Basic Drawing <input type="checkbox"/> ART 135 – Drawing, Design, and the Computer <input type="checkbox"/> ART 350 – Computer Graphics <input type="checkbox"/> ART 485 – Design for the Web One of <input type="checkbox"/> ART 280 – Introductory Photography and Electronic Imaging OR <input type="checkbox"/> ART 335 – Advertising Design |
| General Education – Upper Biennium | |
| <input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS10 – Western Tradition _____ <input type="checkbox"/> GS11 – Global Society _____ <input type="checkbox"/> GS12 – Senior Colloquium (GENS 400) _____ | Note – 1. If necessary, a student may take CSCI 110 in the second semester of their first year, CSCI 205 in the first semester of their second year, and CSCI 225 in the first semester of their third year. 2. CSCI courses numbered 3xx can be taken after successfully completing prerequisites, although it is important to note that many courses are offered once per year or once every other year. 3. For detailed information about course offerings, a check sheet, and prerequisites, go to http://www.snc.edu/compsci and choose Programs from the top menu bar. 4. Students considering graduate school should consult with a computer science faculty member. |