

Computer Science – Computation Arts September Entry

| Year | Term | Course | Title | Credit | Prerequisite | Co-requisite |
|--------|--------|----------|---|--------|--|---------------|
| Year 1 | Fall | CART 211 | Creative Computing and Network Culture | 3.00 | | |
| | | CART 214 | Visual Form and Communication | 3.00 | | |
| | | COMP 232 | Mathematics for Computer Science | 3.00 | MATH 203, 204 | |
| | | COMP 248 | Object-Oriented Programming I | 3.50 | | MATH 204 |
| | | FFAR 250 | Keywords: Reading the Arts Across the Disciplines | 6.00 | | |
| | Winter | CART 212 | Digital Media Studio I | 3.00 | CART 211 | |
| | | COMP 228 | System Hardware | 3.00 | COMP 248 | MATH 203, 204 |
| | | COMP 233 | Probability and Statistics for Computer Science | 3.00 | MATH 205 | |
| | | COMP 249 | Object-Oriented Programming II | 3.50 | COMP 248; MATH 203 | MATH 205 |
| | | FFAR 250 | Keywords: Reading the Arts Across the Disciplines | | | |
| Year 2 | Fall | CART 210 | New Media Theory | 3.00 | | |
| | | COMP 345 | Advanced Program Design with C++ | 4.00 | | COMP 352 |
| | | COMP 348 | Principles of Programming Languages | 3.00 | | COMP 249 |
| | | COMP 352 | Data Structures and Algorithms | 3.00 | COMP 249 | COMP 232 |
| | | | Computation Arts Elective* | | | |
| | Winter | CART 310 | Interaction Design Studio | 3.00 | CART 210 or written permission of the Department | |
| | | COMP 335 | Introduction to Theoretical Computer Science | 3.00 | COMP 232 or COEN 231; COMP 249 or COEN 244 | |
| | | COMP 346 | Operating Systems | 4.00 | COMP 228 or SOEN 228; COMP 352 | |
| | | ENCS 282 | Technical Writing and Communication | 3.00 | Students must pass the Engineering Writing Test (EWT), or pass ENCS 272 with a grade of C- or higher | |
| | | | | | | |
| Year 3 | Fall | CART 410 | Research-Creation in the Computation Arts | 3.00 | CART 210, 310 OR written permission of the Department of Design and Computation Arts | |
| | | COMP 354 | Introduction to Software Engineering | 4.00 | COMP 352; ENCS 282 | |
| | | | Computation Arts Elective* | | | |
| | Winter | COMP 371 | Computer Graphics | 4.00 | COMP 232 or COEN 231; COMP 352 or COEN 352 | |
| | | ENGR 411 | Special Technical Report | 1.00 | ENCS 282; Written permission of the Department | |
| | | | Computation Arts Elective* | | | |

***Please note, only core courses are listed and not all electives are assigned a row in the sequence.**

For the list of electives which students must complete, please consult section 81.90.2 of the Undergraduate Calendar.

Students in the Bachelor of Computer Science should follow the academic calendar for the year to which they have been admitted/readmitted.

To be considered full-time, students must register for a minimum of 12 credits per term.



Computer Science – Computation Arts Co-op

| Year | Term | Course | Title | Credit | Prerequisite | Co-requisite |
|----------|-------------|--------------------------|---|--|--|---------------|
| Year 1 | Fall | CART 211 | Creative Computing and Network Culture | 3.00 | | |
| | | CART 214 | Visual Form and Communication | 3.00 | | |
| | | COMP 232 | Mathematics for Computer Science | 3.00 | MATH 203, 204 | |
| | | COMP 248 | Object-Oriented Programming I | 3.50 | | MATH 204 |
| | | FFAR 250 | Keywords: Reading the Arts Across the Disciplines | 6.00 | | |
| | Winter | CART 212 | Digital Media Studio I | 3.00 | CART 211 | |
| | | CART 210 | New Media Theory | 3.00 | | |
| | | COMP 228 | System Hardware | 3.00 | COMP 248 | MATH 203, 204 |
| | | COMP 249 | Object-Oriented Programming II | 3.50 | COMP 248; MATH 203 | MATH 205 |
| | | FFAR 250 | Keywords: Reading the Arts Across the Disciplines | | | |
| | Summer | COMP 233 | Probability and Statistics for Computer Science | 3.00 | MATH 205 | |
| | | COMP 348 | Principles of Programming Languages | 3.00 | | COMP 249 |
| | | COMP 352 | Data Structures and Algorithms | 3.00 | COMP 249 | COMP 232 |
| | | ENCS 282 | Technical Writing and Communication | 3.00 | Students must pass the Engineering Writing Test (EWT), or pass ENCS 272 with a grade of C- or higher | |
| Year 2 | Fall | Work Term 1 | | | | |
| | Winter | CART 310 | Interaction Design Studio | 3.00 | CART 210 or written permission of the Department | |
| | | COMP 346 | Operating Systems | 4.00 | COMP 228 or SOEN 228; COMP 352 | |
| | | COMP 354 | Introduction to Software Engineering | 4.00 | COMP 352, ENCS 282 | |
| | | | Computation Arts Elective* | | | |
| Summer | Work Term 2 | | | | | |
| Year 3 | Fall | CART 410 | Research-Creation in the Computation Arts | 3.00 | CART 210, CART 310 OR written permission of the Department of Design and Computation Arts | |
| | | COMP 345 | Advanced Program Design with C++ | 4.00 | | COMP 352 |
| | | | Computation Arts Elective* | | | |
| | Winter | Work Term 3 | | | | |
| | Summer | COMP 335 | Introduction to Theoretical Computer Science | 3.00 | COMP 232 or COEN 231; COMP 249 or COEN 244 | |
| | | COMP 371 | Computer Graphics | 4.00 | COMP 232 or COEN 231; COMP 352 or COEN 352 | |
| ENGR 411 | | Special Technical Report | 1.00 | ENCS 282; Written permission of the Department | | |

***Please note, only core courses are listed and not all electives are assigned a row in the sequence.**

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