

**B. S. Computer Science (CSC)***College: Arts & Sciences*

Option 2: Digital Arts Concentration

**DEGREE REQUIREMENTS**

Course requirements for all UNCW degrees include: (1) University Studies, (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

**(1) UNIVERSITY STUDIES**

See University Studies requirements online: <http://uncw.edu/uc/advising/unistudies.html>.

**(2) MAJOR REQUIREMENTS – CSC Option 2 – Digital Arts (Minimum 79 hours)****Core Courses:** (56 hours)

_____	<b>CSC 131</b>	Introduction to Computer Science (4) Prerequisite: MAT 111 or 115
_____	<b>+CSC 133</b>	Discrete Mathematical Structures (3) Prerequisite: MAT 111 or 115, or equivalent
_____	CSC 231	Introduction to Data Structures (4) Prerequisite: CSC 131, Corequisite: CSC 133
_____	CSC 242	Computer Organization (3) Prerequisites: CSC 131 and 133
_____	CSC 331	Object-Oriented Programming and Design (3) Prerequisite: CSC 231
_____	CSC 344	Computer Networks (3) Prerequisite: CSC 242
_____	CSC 360	Formal Languages and Computability (3) Prerequisites: CSC 231 and 242
_____	CSC 380	Design and Analysis of Algorithms (3) Prerequisites: CSC 133, 231, and MAT 161
_____	<b>CSC 385</b>	Professional and Ethical Issues in Computer Science (3) Prerequisites: ENG 101 or equivalent and junior/senior standing in computer science (Meets <b>Oral Communication Requirement</b> )
_____	CSC 434	Programming Languages (3) Prerequisites: CSC 331 and 360
_____	<b>CSC 450</b>	Software Engineering (3) Prerequisites: CSC 331 and senior standing (Meets <b>Applied Learning Requirement</b> )
_____	<b>CSC 455</b>	Database Design and Implementation (3) Corequisite: CSC 231
_____	<b>+*MAT 161</b>	Calculus with Analytical Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
_____	<b>*MAT 162</b>	Calculus with Analytical Geometry II (4) Prerequisite: MAT 161
_____	<b>+QMM 280</b>	Statistical Analysis for Business and Economics (3) Prerequisite: MAT 111
<u>or</u>	<b>+STT 215</b>	Introduction to Statistics (3) Prereq: Satisfactory performance on the UNCW math test or MAT 105
_____	CSC _____	Choose 6 additional hours in CSC at the 300-400 level; must be approved by advisor.
_____	CSC _____	

**Digital Arts Concentration:** (24-25 hours)

_____	ART 101	Two-Dimensional Design (3)
_____	ART 260	Introduction to Graphic Design (3) Prerequisite: ART 101 or consent of instructor
_____	<b>CSC 112</b>	Introduction to Computer Programming (3) Prerequisite: MAT 111 or 115
<u>or</u>	<b>CSC 131</b>	Introduction to Computer Science (4) Prerequisite: MAT 111 or 115
_____	CSC 204	Multimedia Systems (3) Prerequisite: CSC 105 or 110 or equivalent
_____	CSC 220	3-D Computer Graphics Tools & Literacy (3) Prereq: CSC 105, 131 or consent of instructor
_____	CSC 320	Computer Animation (3) Prerequisite: CSC 220 or consent of instructor
<u>or</u>	COM 280	Introduction to Digital Video Production (3) Prerequisites: Pre-COM or COM major and a grade of B or better in COM 105 or 160 or consent of instructor
<u>or</u>	<b>FST 201</b>	Introduction to Film Production (3) Prerequisite: FST 200 and FST major, Corequisite: FST 205
_____		Choose 3 elective hours at the 300-level of above and at least 3 elective hours outside a student's major department: CSC 320, 370, 421, 430, 475, <b>491</b> ; ART 311, 312, 320, 341, 343, 360, 365, 411, 412, 475, <b>491</b> , 495, COM +160, +211, 286, 380, 387, 480, 482, <b>491</b> , CRW 210, FST 220, 301, 302, 318, 320, 330, 331, 332, 333, <b>368</b> , 392, 393, 394, 397, 398, 430, <b>495</b> , 497, <b>MUS 110</b> , 210, 310, 491, THR 211, 305, 411.

A grade point average of "C" (2.00) or better computed over the CSC courses and all the courses used to fulfill the requirements of the major are required. **NOTE:** ART 101 is a prereq for ART 260. ART 260 should also be taken before CSC 204 and before CSC 220.

\*These courses require a lab

+May also be used to satisfy University Studies Foundations & Approaches and Perspectives requirements

**Highlighted courses** may meet University Studies Cluster, Competency, Exploration and/or Capstone course requirements

**(3) ELECTIVES**

\_\_\_\_\_ Elective hours to equal a minimum of 124 hours

**Requirements to declare CSC:** Completion of 24 hours

For further information, see the CSC website: <http://www.uncw.edu/csc> and <http://catalogue.uncw.edu>.

**MAJOR REQUIREMENTS WITHIN UNIVERSITY STUDIES**

Note: **Highlighted courses** are within the major requirements/electives and also meet University Studies Cluster, Competency, Exploration and/or Capstone Course requirements.

**THEMATIC TRANSDISCIPLINARY CLUSTERS**

Students who major in Computer Science in the Digital Arts Concentration are exempt from this requirement.

**BUILDING COMPETENCIES****A. Writing Intensive:** *(9 hours with at least one at the 300 – 400-level and at least one in the major)*

ACG 445, ANT 305, 308, 312, 449, ARH 476, ART 476, ATR 445, BIO 362, BIOL 325, 345, 366, CHM 250, CHML 321, 420, CLA 209, 210, 330, CLR 310, 410, COM 232, 300, 305, 420, 431, CRM 495, CRW 203, 496, **CSC 385, 450**, EBD 490, ECN 422, EDN 300, 352, EDNL 300, ENG 110, 111, 202, 204, 205, 211, 223, 224, 225, 226, 227, 230, 232, 233, 290, 313, 317, 495, 496, EVS 495, FIN 330, FRH 402, 411, 421, 470, 485, 491, 498, 499, FST 317, 363, 367, **368**, 440, 445, 496, GER 495, 499, GGY 333, 382, 435, 436, 499, GLY 337, 390, 420, 499, HEA 305, HST 290, 408, 412, 414, 418, 440, 442, 444, 446, 448, 450, 454, 456, 477, 478, 480, 481, 483, 485, 487, 495, 496, 497, INT 300, 490, MAT 346, 495, MGT 352, 450, 458, MKT 343, MUS 351, 352, NSG 316, 330, 415, OCN 390, 490, 499, OPS 372, 377, 472, PAR 301, 371, 373, 374, PED 415, PHY 300, 400, PLS 401, 424, PSY 355, 410, 412, 417, 423, 425, 464, REC 375, RTH 480, SED 372, SOC 490, 496, SPN 305, 405, 497, STT 490, 498, SWK 320.

**B. Information Literacy:** *(9 hours; First-Year Seminar and two additional courses with at least one in the major)*

ANT 308, 312, 449, ARH 476, ART 476, ATR 445, BIO 495, BIOL 495, CHM 250, 495, CLR 320, COM 200, 420, CRM 300, 495, CRW 204, CSC 105, **385**, ECN 422, EDN 303, ENG 103, 200, 201, 202, 204, 205, EVS 495, EXS 359, FRH 304, 311, 318, 404, FST 370, 371, 372, 376, 377, 378, 379, GER 495, GGY 215, 222, 495, GLY 337, 350, 390, 495, HEA 452, HON 110, HST 290, INT 300, 490, MAT 495, MIS 213, **MUS 110**, 285, NSG 316, 330, 415, OCN 350, 390, 490, PAR 300, 301, 400, PED 415, PHY 315, 335, PLS 201, PSY 355, 410, 412, 417, 423, 425, 464, REC 380, RTH 468, SEC 430, 431, SOC 300, 390, 490, 496, SPN 405, 490, 497, STT 490, 498, SWK 321, UNI 101.

**C. Quantitative and Logical Reasoning:** *(3 hours – may be taken as a major requirement)*

ANT 324, BIOL 366, CHM 101, COM 300, **CSC 112**, 121, **131, 133**, ENG 303, EXS 359, FST 445, GGY 215, 222, 235, GLY 226, 350, 390, 426, HEA 359, MAT 101, 102, 111, 112, 115, 141, 142, 151, 152, **161, 162**, OCN 350, 390, OPS 370, PAR 110, 218, PED 387, PHY 101, 102, 201, 202, PLS 201, PSY 225, REC 359, RTH 359, STT 210, **215**, SWK 406.

**EXPLORATIONS BEYOND THE CLASSROOM**

*(1 approved experience from the options below – may be integrated into the major or any other component)*

ACG 491, 498, ANT 491, 498, ANTL 207, **ART 491**, BIO 291, 480, 491, 493, 495, 498, BIOL 495, BLA 491, 498, CHM 495, CLR 498-1, 498-2, COM 431, 434, **491**, 498, CRM 490, **CSC 450, 491**, 498, EBD 491, 498, ECN 491, 498, EDN 318, 323, 335, 338, 352, 355, 409, 411, 465, 466, 467, EDNL 200, 300, 302, 332, 333, 407, 450, 451, ENG 202, 204, 302, 498, EVS 431, 491, 497, 498, EVSL 195, EXS 347, FIN 491, 498, FRH 491, 498, **FST 201**, 498, GER 491, 498, GGY 424, 491, 498, GLY 390, 470, 491, 498, INB 294, 394, 491, 494, 498, INT 294, 494, 491, 498, MAT 498, MIS 411, 413, 491, 498, MGT 491, 498, MKT 491, 498, NSG 405, OCN 390, 491, OPS 491, 498, PAR 400, PED 294, PHY 315, 477, 481, PLS 294, 491, 494, 498, PSY 291, 451, 491, REC 498, RTH 498, SEC 220, 320, 421, 422, 431, SED 250, 350, 354, 355, 362, 367, 374, 375, 411, SEDL 368, 369, SOC 390, 496, SPN 294, 490, 491, 498, STA 294, SWK 496, 497, THR 241, 242, 243, WGS 498, 491, xxx 499.

**CAPSTONE COURSES**

*(1-4 hours – may be taken as a major requirement)*

ANT 450, ARH 476, ART 476, ATR 490, BIO 495, BIOL 495, CHM 491, 495, CLR 498-1, 498-2, COM 400, CRM 495, **CSC 450, 455**, ECN 422, EDN 409, 411, 465, ENG 495, 496, EVS 495, EXS 347, FRH 404, 411, 421, 437, 448, 470, 485, 491, **FST 495**, 496, GER 495, 499, GGY 495, GLY 470, 495, HEA 498, HST 408, 412, 414, 418, 440, 442, 444, 446, 448, 450, 454, 456, 477, 478, 480, 481, 483, 485, 487, 495, 496, 497, INT 490, MAT 495, MGT 455, MUS 493, 496, NSG 403, 405, PAR 400, PHY 497, PLS 401, PSY 410, 412, 417, 423, 425, 464, REC 498, RTH 498, SED 411, SOC 490, 496, SPN 497, STT 490, 498, SWK 496, 497.