CURRICULUM GUIDE
Computer Science, B.S. (Interactive Multimedia Concentration)
2015-2016
Website: www.computerscience.eku.edu
Email Contact: ka-wing.wong@eku.edu

The schedule below is an EXAMPLE of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

<table>
<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASO 100I</td>
<td>1</td>
<td>CSC 140</td>
</tr>
<tr>
<td>CSC 185</td>
<td>3</td>
<td>CSC 191</td>
</tr>
<tr>
<td>CSC 190</td>
<td>3</td>
<td>CSC 195</td>
</tr>
<tr>
<td>EET 252</td>
<td>3</td>
<td>MAT 239</td>
</tr>
<tr>
<td>6 MAT 234 or 234H (fulfills Gen. Ed. 2)</td>
<td>4</td>
<td>Gen. Ed. 1B (ENG 102)</td>
</tr>
<tr>
<td>Gen. Ed. 1A (ENG 101)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
<td><strong>TOTAL</strong></td>
</tr>
<tr>
<td><strong>Sophomore Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 313</td>
<td>3</td>
<td>CSC 340</td>
</tr>
<tr>
<td>CSC 310</td>
<td>3</td>
<td>CSC Restricted Elective</td>
</tr>
<tr>
<td>MAT 244 or 244H (spring only)</td>
<td>4</td>
<td>ART 200 (fulfills Gen. Ed. 3A)</td>
</tr>
<tr>
<td>6 PHY 201 (fulfills Gen. Ed. 4)</td>
<td>5</td>
<td>STA 270</td>
</tr>
<tr>
<td>Gen. Ed. 3B (Humanities)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td><strong>TOTAL</strong></td>
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<tr>
<td><strong>Junior Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 315</td>
<td>3</td>
<td>CSC 316</td>
</tr>
<tr>
<td>CSC 308 or 309</td>
<td>3</td>
<td>CSC 520 or 555</td>
</tr>
<tr>
<td>‡ Sequence elective (class 1)</td>
<td>3</td>
<td>‡ Sequence elective (class 2)</td>
</tr>
<tr>
<td>Gen. Ed. 5A (History)</td>
<td>2</td>
<td>Wellness</td>
</tr>
<tr>
<td>MUS 290 (fall only)</td>
<td>2</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>14</td>
<td><strong>TOTAL</strong></td>
</tr>
<tr>
<td><strong>Senior Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 550</td>
<td>6</td>
<td>CSC 491 (ACCT)</td>
</tr>
<tr>
<td>COM 200 (fulfills Gen. Ed. 5B)</td>
<td>3</td>
<td>ARH 390 or 391</td>
</tr>
<tr>
<td>6 ART 100, TEC 190, or 313</td>
<td>3</td>
<td>Gen. Ed. 1C (Oral Comm.)</td>
</tr>
<tr>
<td>4 CSC 494, 495, 496, or INF 495</td>
<td>1</td>
<td>Free Electives (upper division)</td>
</tr>
<tr>
<td>Gen. Ed. 6 (Diversity)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>13</td>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
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**TOTAING HOURS TO DEGREE COMPLETION** 120

* PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division CSC courses. ART 164 or 200, ENG 102 or 105, GEO 210 and/or 253, GLY 102, 108, 109, 172 or 174, HON 102; MAT 108, 109, 122, 124, 234, 234H, 234H, 244, and/or 244H, MGT 300 or 301, MKT 301; and/or MUS 190 and/or 191. See University catalog for details.

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300 level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories. If 300 level classes are taken for Gen. Ed. or elsewhere in the program, they can be used to fulfill the 42 hours instead of upper division free electives.

Refer to the University Catalog at http://www.catalogs.eku.edu regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix “W” following the course prefix and number (e.g. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Computer Science majors will fulfill ACCT with CSC 349, 440, 491, 549, or 495 with a program-approved topic. (Credit hours are incorporated into program requirements.)

Course | Course Name
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<tr>
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<tbody>
<tr>
<td>ASO 100</td>
<td>Student Success Seminar for Computer Science (1/3)</td>
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</tbody>
</table>

**GENERAL EDUCATION & UNIVERSITY REQUIREMENTS** (40)

**CORE COURSE REQUIREMENTS** (25)

CSC 185 | Intro to Computer Concepts |
CSC 190 | Object-Oriented Programming I |
CSC 191 | Object-Oriented Programming II |
CSC 195 | Intro to Discrete Structures |
CSC 308 or | Mobile App Dev for iOS |
CSC 309 | Mobile App Dev for Android |
CSC 310 | Data Structure |
CIS 313 | Database Systems |
CSC 340 | Ethics & Software Engineering |

**PLUS ONE (1) COURSE selected from the following:**

CSC 494 | Innovative Problem Solving (1-3) |
CSC 495 | Independent Work (1-3) |
CSC 496 | Senior Seminar (1) |
INF 495 | Independent Work (1-3) |

**INTERACTIVE MULTIMEDIA CONCENTRATION REQUIREMENTS** (22)

CSC 340 | Introduction to Computer Game Design |
CSC 315 | 3D Modeling |
CSC 316 | 3D Game Engine Design |
CSC 491 | Console Game Design |
CSC 550 | Graphics Programming |
CSC 520 gr | Multimedia Sys. & Forensics |
CSC 555 | Topics in Multimedia |

**PLUS ONE (1) COURSE selected from the following (restricted elective):**

CSC 300 | Intro. To Numerical Methods |
CSC 308 | Mobile App Dev for iOS |
CSC 309 | Mobile App Dev for Android |
CSC 320 | Intro. To Algorithms |
CSC 330 | System Environments & Networks |
CSC 342 | Digital Storage Device Forensics |
CSC 350 | Principles of Prog. Languages |
CSC 360 | Computer Org & Architecture |
CSC 390 | Adv. Prog. Techniques with ___ |
CSC 400 | Operating Systems |
CSC 425 | Compiler Construction |
CSC 440 | Intro. to Image Engineering |
CSC 460 | Comp. Network & System Admin. |
CSC 490 | Seminar in ___ (2-3) |
CSC 507 | Seminar in Computer Science: ___(1-3) |
CSC 538 | Computer Crime & Forensics |
CSC 540 | Integrated DB Applications |
CSC 544 | Database Admin & Security |
CSC 545 | Theory of Database Systems |
CSC 546 | Artificial Intelligence |
CSC 547 | Network Forensics & Investigation |
CSC 548 | Personal Electronic Device Forensics |

**INTERACTIVE MULTIMEDIA CONCENTRATION SUPPORTING COURSE REQUIREMENTS** (30)

**MAT courses: **

**MAT 234** Calculus I (4) |
**MAT 234H** Honors Calculus I (4) |
**MAT 239** Linear Algebra & Matrices |
**MAT 244** Calculus II (4) |
**MAT 244H** Honors Calculus II (4) |
**MUS 290** Film Scoring (2) |
**PHY 201** University Physics I (5) |
**STA 270** Applied Statistics (1)

**PLUS TWO (2) courses chosen from the following:**

ART 200 | Art Appreciation: Orientation |
ART 201 | Survey of Art History I: Non-West, Art |
ART 393 | Survey of Art History II: West, Art |

**PLUS ONE (1) course chosen from the following:**

**ENG 351** Mass Media and Society |
**ENG 352** Digital Electronics |
**MAT 301** Principles of Marketing |
**MAT 401** Internet Marketing |
**MKT 301** Principles of Management |
**MKT 405** Innovation and Entrepreneurship |

**FREE ELECTIVES** (6)

All courses listed above are worth 3 credit hrs. unless otherwise noted.

Class cannot be used for both CSC core and CSC restricted elective.

* Denotes that 3 credit hours from this course are can be applied to fulfill a Gen. Ed. requirement.

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