Curriculum Change Form

**(Present only one proposed curriculum change per form)**

***(Complete only the section(s) applicable.)***

**Part I**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (Check one) | | | Department Name | | Computer Science | |
|  | New Course (Parts II, IV) | | College | | Arts & Sciences | |
|  | Course Revision (Parts II, IV) | | \*Course Prefix & Number | |  | |
|  | Hybrid Course (“S,” “W”) | | \*Course Title | |  | |
|  | New Minor (Part III) | | \*Program Title | | B.S. in Computer Science | |
|  | Program Suspension (Part III) | |  | |  | |
| \_\_X\_\_ | Program Revision (Part III) | | \*Provide only the information relevant to the proposal. | | If Certificate, indicate Long-Term (University) or Short-Term (Departmental) | |
| Proposal Approved by: | | Date | |  | | Date |
| Departmental Committee | | 2/27/13 | | Council on Academic Affairs | |  |
| College Curriculum Committee | | 4/15/13 | | Faculty Senate\*\* | |  |
| General Education Committee\* | | NA | | Board of Regents\*\* | |  |
| Teacher Education Committee\* | | NA | | EFFECTIVE ACADEMIC TERM\*\*\* | |  |
| Graduate Council\* \_\_\_\_\_\_\_\_\_NA\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| \*If Applicable (Type NA if not applicable.)  \*\*Approval needed for program revisions or suspensions.  \*\*\*To be added by the Registrar’s Office after all approval is received. | | | | | | |
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**Completion of A, B, and C is required: (Please be specific, but concise.)**

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| **A. 1. Specific action requested:** (Example: Increase the number of credit hours for ABC 100 from 1 to 2.) |
| Revise the Computer Forensics and Security Option |
| **A.** **2. Proposed Effective Academic Term:** (Example: Fall 2012) |
| Spring 2014 |
| **A. 3. Effective date of suspended programs for currently enrolled students:** (if applicable) |
|  |
| **B. The justification for this action:** |
| We are planning to seek Forensic Science Education Programs Accreditation Commission (FEPAC) accreditation for our Computer Forensics and Security option.  To strengthen our program and our students’ level of preparation, we must add new courses that reflect changes and professional expectations in the area of computer forensics. |
| **C. The projected cost (or savings) of this proposal is as follows:** |
| **Personnel Impact:** |
| None |
| **Operating Expenses Impact:** |
| None |
| **Equipment/Physical Facility Needs:** |
| None |
| **Library Resources:** |
| None |

**Part** **III**. **Recording Data for Revised or Suspended Program**

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| 1. For a revised program, provide the current program requirements using ~~strikethrough~~ for deletions and *underlines* for additions. 2. For a suspended program, provide the current program requirements as shown in catalog. List any options and/or minors affected by the program’s suspension. |
| Revised\* Program Text  (\*Use ~~strikethrough~~ for deletions and underlines for additions.) |
| **Program Objectives**  Upon completion of this program the graduate will: (1) have a working knowledge of some common programming languages and operating systems; (2) have experience with analysis of software systems, design, documentation, and implementation techniques both as an individual and as a member of a design team; (3) have experience with analysis of hardware systems, design, and implementation techniques; and (4) be qualified for employment as a computer scientist in industry or in government. In addition, (1) graduates under the accredited general computer science option will be prepared to enter a graduate program in computer science; (2) graduates under the computer technology option will be able to take appropriate network certification examination(s), such as Microsoft Network Certification; and (3) graduates under the computer technology option will be qualified to program industrial and process control systems.  **UNIVERSITY GRADUATION REQUIREMENTS**  • General Education …………………..............................36 hrs.  • Student Success Seminar (waived for transfers with  30+hrs.)…...........................................................................1 hr.  • Wellness………………………………………………....3 hrs.  • Writing Intensive Course (Hrs. incorporated into Major/ Supporting/Gen Ed/Free Electives category)  • Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)  • ACCT - Computer Science majors will fulfill ACCT with CSC 349, 440, 491, 549, or 495 with a program-approved topic. (Credit hours may be incorporated into Major or Supporting requirements)  **Total Hours University Graduation Requirements……40 hours**  **MAJOR REQUIREMENTS**  **Core Courses**.......................................................................18 hours  CSC 1851, 190, 191, 195, 310, and 340.  **Options:**  **Computer Science (General)** ....................................30 hours  *(Accredited by the Computer Science Accreditation Commission of ABET, http://www.abet.org)*  CSC 320, 360, 400, 440, 460, 545; and four of CSC 300, 308, 315, 316, 318, 321, 322, 332, 350, 390, 425, 490, 491, 520, 538, 540, 544, 546, 547, 548, and 550.  **Computer Technology**................................................24 hours  CSC 360, 440, 460, 545, 3 hours of CSC 3492, and three of CSC 300, 308, 315, 316, 318, 320, 321, 322, 332, 350, 390, 400, 425, 490, 491, 520, 538, 540, 544, 545, 546, 547, 548, and 550.  **Bioinformatics**............................................................15 hours  Three of CSC 320, 440, 520, 544, and 545; two additional courses from: CSC 300, 308, 315, 316, 318, 320, 321, 322, 332, 350, 360, 390, 400, 425, 440, 460, 490, 491, 520, 538, 540, 544, 545, 546, 547, 548, and 550.  **Interactive Multimedia** ............................................ 27 hours  CSC 140, 308, 315, 316, 491, 550, one of 520 or 555, and two of CSC 300, 313, , 318, 320, 321, 322, 330, 332, 350, 360, 390, 400, 425, 440, 460, 490, 538, 540, 544, 545, ~~and~~ 546, 547 and 548.  **Computer Forensics and Security**............................~~33~~48 hours  CSC 308, 318, 321, 322, 332, 360, 400, 460, 520, 542, 544, 545, 547, 548, 549, and ~~two~~ one of CSC 300, ~~308,~~ 315, 316, 320, 350, 390, 425, 440, 490, 491, 538, 540, ~~545,~~ 546, or 550.  **Statistical Computing**…………................................15 hours  CSC 320, 544, 545; two courses from: CSC 308, 300, 315, 316, 318, 321, 322, 332, 350, 360, 390, 400, 425, 440, 460, 490, 491, 520, 546, 547, 548, 550, and 555.  **Supporting Course Requirements:**  **Computer Science (General Option)**.................. 22-26 hours  EET 252; MAT (ᴳElement 2) 124(4) or 124H(4), 214, 224(4) or 224H(4); STA 270. One of the following sequences (ᴳElement 4): BIO 111(4), 112(4); CHE 111/111L, 112/112L; GLY 108, 109; or PHY 201(5), 202(5); and two additional courses (ᴳElement 4) from the preceding list.  **Computer Technology Option**.................................... 24-25 hours  EET 252; NET 302, 303, 343, 344, 354, 403, 454; one of MAT (ᴳElement 2) 124(4), 124H(4), 211, or 261.  **Bioinformatics**................................................................... 45-46 hours  BIO 111(4) or 112(4) (ᴳElement 4~~A~~), 315(4), 331, 348(4), 511 or 531(4) or 531S(4), 533; 3 hrs of BIO 598; CHE 111/111L(ᴳElement 4~~B~~), 112/112L, 361/361L, 362/362L; 430/432(1) or 431/432(1); MAT(ᴳElement 2) 124(4) or 124H(4); STA 270, 320.  **Interactive Multimedia**................................................~~23-28~~ 30 hours  COM 200(ᴳElement 5B); EET 252; MUS 290(2); PHY 201(5)(ᴳElement 4~~B~~); STA 270; two courses from ART 200(ᴳElement 3A), ARH 390 or 391; MAT(ᴳElement 2) 124(4) or 124H(4), 214, 224(4) or 224H(4); one course from ART 100, TEC 190, or TEC 313; one of the following sequences: MKT 301, 401, or MGT 301, 465, or GEO 353, 553.  **Computer Forensics and Security**....................................~~34~~ 22 hours  ~~APS 350; CIS 320, 325;~~ FOR 301, 401; ~~NET 303,~~ ~~PLS 216, 316, 416;~~ STA 270; MAT 124(4)(ᴳElement 2) or 124H(4)(ᴳElement 2); ~~APS 395, NET 354 or 454~~. Four courses selected from CIS 320, 325; NET 303, 354, 454; PLS 316, 416; SEC 350.  **Statistical Computing**………………...........................32-33 hours  MAT 124(4) (ᴳElement 2), 224(4); STA 270, 320, 375, 501, 575, 580, 585; one pair chosen from: AEM 202 and (332, 336, or 506); BIO 315(4) 3, 533; ECO 320, 420; INS 370 and (372, 374, or 378); STA 520, 521.  *ᴳ = Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.*  **Free Electives**..................................................................~~2~~0-15 hours  **TOTAL HOURS TO COMPLETE DEGREE......120-128 hours**  1CSC 185 will be waived for students with a 25 ACT or 590 SAT . In this case the course will be replaced by three additional hours of free electives.  2Under special circumstances, a student may seek an administrative waiver of the CSC 349 requirement from the Computer Science Curriculum Committee and the department chair. Waiver recipients are required to complete three semester hours of additional course work approved by the Computer Science Curriculum Committee.  3BIO 315 has a prerequisite of BIO 111 or 112.  \*A preparatory course in mathematics (MAT 107 and/or MAT 109) may be required before admission to calculus. |