**Amarillo College Curriculum Map Template**

**Division:** STEM **Degree/Academic Program(s):**Business Computer (BUSI.AS.CIS, COSC.AAS, COSC.CERT.CSS, COSC.CERT.WEB, COSC.CERT.GAME)

**Person Responsible for Division:** Dan Ferguson, Dean **Component Director/Chair:** Carol Buse, Chair, Business Systems Emerging Technology **Submission Date:** Fall 2015 **Purpose Statement:** The Mission of the Computer Information Systems degree and certificates is to prepare students for employment in various computer-related areas (such as programming, web development, support, network administration) and/or for the pursuit of a 4-year degree in CS, CIS, MIS, Business, or related discipline by educating them in the fundamental concepts, knowledge, and laboratory techniques and skills in the Computer Sciences.

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|  | **Goal #1:**  To graduate students who are prepared for entry-level employment in the computer industry. | | | |
| **Seq** | **Program-Specific Courses** | **PLO #1:**  **Students will demonstrate competency needed for industry certifications.** | **PLO #2:**  **Students will practice professional conduct**  **.** | **PLO #3:**  **Students will demonstrate competency in the use of commercial and/or open source applications or tools.** |
| **1** | BCIS-1305 | I,D | I,D | I,D |
| **2** | ITSC-2335 | D,M | D | D,M |
| **2** | ITSE-1311 |  | I,D | I |
| **2** | GAME-1306 |  | I | I |
| **3** | COSC-1330 |  | I | I |
| **3** | ITSE-2309 |  | I,D | D |
| **3** | GAME-1391 |  | D | D |
| **4** | COSC-2330 |  | D | D |
| **4** | ITSC-1307 |  | D | D |
| **4** | ITSE-2302 |  | D | D |
| **5** | INEW-2334 |  | M | D |
| **5** | ITSE-1391 |  | D | D |
| **6** | BCIS-2390 |  | M | D |

**I = Introduced; D = Developed & Practiced with Feedback; M = Demonstrated at Mastery**

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|  | **Goal #2:**  To graduate students who can use critical-thinking skills | | | | |
| **Seq** | **Program-Specific Courses** | **PLO #1:**  **Students will analyze various business problems and develop solutions** | **PLO #2:**  **Students will develop application software, games, mobile apps, and web sites** | **PLO #3:**  **Students will analyze data flows, structures and relationships** | **PLO #4:**  **Students will demonstrate a basic understanding of database design** |
| **1** | BCIS-1305 | I,D |  |  |  |
| **2** | ITSC-2335 | D | I | I | I |
| **2** | ITSE-1311 | I,D | I |  |  |
| **2** | GAME-1306 |  | I | I |  |
| **3** | COSC-1330 | I,D | I | I | I |
| **3** | ITSE-2309 | D | D | D | D,M |
| **3** | GAME-1391 |  | D | I |  |
| **4** | COSC-2330 | D,M | D | D | D |
| **4** | ITSC-1307 | D | D | I |  |
| **4** | ITSE-2302 | D | D | I | I |
| **5** | INEW-2334 | D,M | D,M | D,M | D,M |
| **5** | ITSE-1391 | D | D | D |  |
| **6** | BCIS-2390 | D |  | D | D |

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|  | **Goal #3:**  To graduate students who demonstrate teamwork skills. | |
| **Seq** | **Program-Specific Courses** | **PLO #1:**  **Students will collaborate on group projects** |
| **1** | BCIS-1305 | I,D |
| **2** | ITSC-2335 |  |
| **2** | ITSE-1311 | I |
| **2** | GAME-1306 | D,M |
| **3** | COSC-1330 |  |
| **3** | ITSE-2309 | D |
| **3** | GAME-1391 | M |
| **4** | COSC-2330 | D |
| **4** | ITSC-1307 |  |
| **4** | ITSE-2302 |  |
| **5** | INEW-2334 | D |
| **5** | ITSE-1391 |  |
| **6** | BCIS-2390 | D |

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|  | **Goal #4:**  To graduate students who use communication skills. | | |
| **Seq** | **Program-Specific Courses** | **PLO #1:**  **Students will develop presentations** | **PLO #2:**  **Students will prepare papers and reports** |
| **1** | BCIS-1305 | I | I |
| **2** | ITSC-2335 |  |  |
| **2** | ITSE-1311 | D | I |
| **2** | GAME-1306 |  | D |
| **3** | COSC-1330 |  | I |
| **3** | ITSE-2309 | D | D |
| **3** | GAME-1391 |  | D |
| **4** | COSC-2330 |  | D |
| **4** | ITSC-1307 |  |  |
| **4** | ITSE-2302 |  |  |
| **5** | INEW-2334 | D |  |
| **5** | ITSE-1391 |  |  |
| **6** | BCIS-2390 |  | D |

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|  | **Goal #5:**  To graduate students who evaluate personal and social responsibility. | | |
| **Seq** | **Program-Specific Courses** | **PLO #1:**  **Students will demonstrate knowledge of ethical computing** | **PLO #2:**  **Students will use best practices in secure software design** |
| **1** | BCIS-1305 | I,D |  |
| **2** | ITSC-2335 |  |  |
| **2** | ITSE-1311 | I | I |
| **2** | GAME-1306 | I |  |
| **3** | COSC-1330 | I | I |
| **3** | ITSE-2309 | I | D |
| **3** | GAME-1391 | I |  |
| **4** | COSC-2330 | D | I |
| **4** | ITSC-1307 |  | D |
| **4** | ITSE-2302 |  | D |
| **5** | INEW-2334 | D | M |
| **5** | ITSE-1391 |  | D |
| **6** | BCIS-2390 | D | D |

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