|  |  |
| --- | --- |
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| S:\Communications\Logos and photos\SDBORLogos\final_sdbor_webreadyBW_trans.gif | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| Substantive Program Modification Form |
|  |  |

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

|  |  |
| --- | --- |
| **UNIVERSITY:** | DSU |
| **CURRENT PROGRAM TITLE:** | **Computer Information Systems** |
| **CIP CODE:** | **11.0401** |
| **UNIVERSITY DEPARTMENT:** | **College of Business & Information Systems** |
| **UNIVERSITY DIVISION:** | **Information Systems** |

**University Approval**

*To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.*

|  |  |  |
| --- | --- | --- |
| C:\Users\slaughts\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Dr. McKay Signature.jpg |  | 1/16/2018 |
| Vice President of Academic Affairs or  President of the University |  | Date |
|  | | |

1. **This modification addresses a change in (*place an “X” in the appropriate box*):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Total credits required within the discipline |  | Total credits of supportive course work |
|  |  |  |  |
|  | Total credits of elective course work |  | Total credits required for program |
|  |  |  |  |
|  | Program name |  | Existing specialization |
|  |  |  |  |
|  | CIP Code |  | Other (explain below) |

1. **Effective date of change: Fall 2018**
2. **Program Degree Level (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Associate |  | Bachelor’s |  | Master’s |  | Doctoral |  |

1. **Category (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Certificate |  | Specialization |  | Minor |  | Major |  |

1. **If a name change is proposed, the change will occur (*place an “X” in the appropriate box*):**

|  |  |
| --- | --- |
|  | On the effective date for all students |
|  | On the effective date for students new to the program (enrolled students will graduate from existing program) |
|  |

|  |  |
| --- | --- |
| **Proposed new name:** |  |
|  | *Reminder: Name changes may require updating related articulation agreements, site approvals, etc.* |

1. **Primary Aspects of the Modification (*add lines or adjust cell size as needed*):**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Existing Curriculum* | | | | *Proposed Curriculum (highlight changes)* | | | | |
| **Pref** | **Num** | **Title** | **Cr Hr** |  | **Pref** | **Num** | **Title** | **Cr. Hrs.** |
| **General Education** | | | **30** |  | **General Education** | | | **30** |
| **Required Courses** | | | **~~54~~** |  | **Required Courses** | | | **60** |
| ACCT | 210 | Principles of Accounting I | 3 |  | ACCT | 210 | Prin of Accounting I | 3 |
| BADM | 220 | Business Statistics | 3 |  | BADM | 220 | Business Statistics | 3 |
| BADM | 344 | Managerial Communications | 3 |  | BADM | 344 | Managerial Communications | 3 |
| BADM | 350 | Legal Environment of Business | 3 |  | BADM | 350 | Legal Environment of Business | 3 |
| BADM | 360 | Organization and Management | 3 |  | BADM | 360 | Organization and Mgmt | 3 |
| BADM | 370 | Marketing | 3 |  | BADM | 370 | Marketing | 3 |
| CIS | 251 | Business Applications Programming | 3 |  | CIS | 251 | Business Applications Programming | 3 |
| CIS | 325 | Management Information Systems | 3 |  | CIS | 325 | Management Information Systems | 3 |
| CIS | 332 | Structured Systems Analysis and Design | 3 |  | CIS | 332 | Structured Systems Analysis and Design | 3 |
| CIS | 338 | Project Management | 3 |  | CIS | 338 | Project Management | 3 |
| CIS | 427 | Information Systems Planning and Management | 3 |  | CIS | 427 | Information Systems Planning and Management | 3 |
| CIS | 484 | Database Management Systems | 3 |  | CIS | 484 | Database Management Systems | 3 |
| CSC | 105 | Introduction to Computers | 3 |  | CSC | 105 | Introduction to Computers | 3 |
| CSC | 150 | Computer Science I | 3 |  | CSC | 150 | Computer Science I | 3 |
| CSC | 245 | Information Security Fundamentals | 3 |  | CSC | 245 | Information Security Fundamentals | 3 |
| CSC | 363 | Hardware, Virtualization, and Data Communication | 3 |  | CSC | 363 | Hardware, Virtualization, and Data Communication | 3 |
| ECON | 201 | Principles of Microeconomics | 3 |  | ECON | 201 | Principles of Microeconomics | 3 |
| Choose ~~3~~ credits from the following | | | ~~3~~ |  | Choose **9** credits from the following | | | **9** |
|  |  |  |  |  | **ACCT** | **211** | **Prin of Accounting II** |  |
|  |  |  |  |  | **BADM** | **310** | **Business Finance** |  |
|  |  |  |  |  | **BADM** | **472** | **Marketing Technology** |  |
|  |  |  |  |  | **CIS** | **330** | **COBOL I** |  |
|  |  |  |  |  | **CIS** | **340** | **Java Programming** |  |
| CIS | 494 | Internship |  |  | CIS | 494 | Internship |  |
| CIS | 498 | UG Research/Scholarship |  |  | CIS | 498 | UG Research/  Scholarship |  |
|  |  |  |  |  | **CSC** | **234** | **Software Security** |  |
|  |  |  |  |  | **CSC** | **250** | **Computer Science II** |  |
|  |  |  |  |  | **CSC** | **260** | **Object Oriented Design** |  |
|  |  |  |  |  | **CSC** | **328** | **Operating Environments** |  |
|  |  |  |  |  | **CSC** | **383** | **Networking I** |  |
|  |  |  |  |  | **CSC** | **385** | **Networking II** |  |
|  |  |  |  |  | **CSC** | **388** | **Computer Forensics Fund.** |  |
|  |  |  |  |  | **CSC** | **451** | **Mobile Development Env** |  |
|  |  |  |  |  |  |  |  |  |
| **Choose one Specialization** | | | **18** |  | **Choose one Specialization** | | | **18** |
|  |  |  |  |  |  |  |  |  |
| ~~Data Science~~ | | |  |  | **Business Analytics** | | |  |
| BADM | 321 | Business Statistics II | 3 |  | BADM | 321 | Business Statistics II | 3 |
| BADM | 425 | Production & Operations Mgmt | 3 |  | BADM | 425 | Production & Operations Mgmt | 3 |
| CIS | 368 | Predictive Analytics | 3 |  | CIS | 368 | Predictive Analytics | 3 |
| CIS | 372 | Programming for Analytics | 3 |  | CIS | 372 | Programming for Analytics | 3 |
| CIS | 474 | Business Intelligence & Big Data | 3 |  | CIS | 474 | Business Intelligence & Big Data | 3 |
| CIS | 487 | Database Programming | 3 |  | CIS | 487 | Database Programming | 3 |
|  |  |  |  |  |  |  |  |  |
| **Project Management** | | |  |  | **Project Management** | | |  |
|  |  |  |  |  | No changes | | |  |
|  |  |  |  |  |  |  |  |  |
| **Software and Web Development** | | |  |  | **Software and Web Development** | | |  |
| CIS | 275 | Web Application Programming I | 3 |  | CIS | 275 | Web Application Programming I | 3 |
| ~~CIS~~ | ~~361~~ | ~~Advanced Programming for Business Applications~~ | ~~3~~ |  |  |  |  |  |
| CIS | 375 | Web Application Programming II | 3 |  | CIS | 375 | Web Application Programming II | 3 |
| CIS | 424 | Software Development with Agile Methodologies | 3 |  | CIS | 424 | Software Development with Agile Methodologies | 3 |
|  |  |  |  |  | **CIS** | **476** | **Web Development Environments** | **3** |
| CIS | 487 | Database Programming | 3 |  | CIS | 487 | Database Programming | 3 |
| MATH | 201 | Introduction to Discrete Mathematics | 3 |  | MATH | 201 | Introduction to Discrete Mathematics | 3 |
|  |  |  |  |  |  |  |  |  |
| Electives | | | ~~18~~ |  | Electives | | | **12** |

1. **Explanation of the Change:**

**The changes reduce the electives and increase the major core so students will take more courses in business, information systems, or computer science, making a minor in those areas more attainable.**

**The Computer Information Systems Advisory Board recommended that “Business Analytics” is a more relevant name for the Data Science specialization therefore this reflects that change. In the Web and Software Specialization, CIS 361 Advanced Programming for Business Applications is being replaced by CIS 476 Web Development Environments which is more modern and relevant to this specialization.**