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

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations). The university Vice President for Academic Affairs approves minor program modifications and they are included in the Annual Minor Program Modification Summary form.

|  |  |
| --- | --- |
| **UNIVERSITY:** | DSU |
| **PROGRAM TITLE:** | **MS in Applied Computer Science** |
| **CIP CODE:** | **11.0101** |
| **UNIVERSITY DEPARTMENT:** |  |
| **UNIVERSITY DIVISION:** | **Beacom College of Computer and Cyber Sciences** |

**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 |  | 4/2/2018 |
| 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*):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course *deletions* that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |  | Course *additions* that do not change the nature of the program, or distribution of courses in the program, or change of total credit hours required |
|  |  |  |  |
|  | Revised courses in the program. |  |  |

1. **Effective date of change: 8/1/2018**
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. **Primary Aspects of the Modification (*add lines or adjust cell size as needed*):**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Existing Curriculum* | | | | *Proposed Curriculum (highlight changes)* | | | | | |
| **Pref.** | **Num.** | **Title** | **Cr.**  **Hrs.** |  | **Pref.** | | **Num.** | **Title** | **Cr. Hrs.** |
| Core Courses | | | 15 |  | Core Courses | | | | 15 |
|  |  |  |  |  |  | |  |  |  |
| Specialization or Electives | | | 15 |  | Specialization or Electives | | | | 15 |
| Cyber Operations Specialization | | |  |  | Cyber Operations Specialization | | | |  |
| ~~CSC~~ | ~~716~~ | ~~Secure Software Engineering~~ | ~~3~~ |  |  | |  |  |  |
| CSC | 748 | Software Exploitation | 3 |  | CSC | | 748 | Software Exploitation | 3 |
| INFA | 723 | Cryptography | 3 |  | INFA | | 723 | Cryptography | 3 |
| ~~INFA~~ | ~~751~~ | ~~Wireless Security~~ | ~~3~~ |  |  | |  |  |  |
|  |  | ~~Elective~~ | ~~3~~ |  |  | |  |  |  |
|  |  |  |  |  | CSC | | 723 | Machine Learning for Cyber Security | 3 |
|  |  |  |  |  | CSC | | 773 | Mobile Communication and Advanced Network Security | 3 |
|  |  |  |  |  | CSC | | 786 | Cyber Problems | 3 |
| Total number of hours required for major, minor, or specialization | | | 30 |  | | Total number of hours required for major, minor, or specialization | | | 30 |
| Total number of hours required for degree | | | 30 |  | | Total number of hours required for degree | | | 30 |

1. **Explanation of the Change:**

All of these changes are to meet new advanced cyber operations CAE-CO Adv. requirements.

These new courses complete required two course sequences (CSC 722 (core) 🡪 CSC 723) and (INFA 723 🡪 CSC 773) that is a requirement for designation of Cyber Operations. Some of the material for INFA 751 is incorporated into the new course CSC 773. Cyber Problems meets designation requirements for a research course that also contains a significant deliverable.