|  |  |
| --- | --- |
|  |  |
|  | **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:** | Cyber Leadership and Intelligence |
| **CIP CODE:** | 290202 |
| **UNIVERSITY DEPARTMENT:** | Social Sciences |
| **BANNER DEPARTMENT CODE:** | DSOS |
| **UNIVERSITY DIVISION:** | Arts and Sciences |
| **BANNER DIVISION CODE:** | 8A |

**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.*

|  |  |  |
| --- | --- | --- |
|  |  | Click here to enter a date. |
| 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: 5/13/2024**
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. **Is the program associated with a current articulation agreement?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Yes |  |  | No |  |

* 1. **If yes, will the articulation agreement need to be updated with the partner institution as a result of this minor program modification? Why or why not?**

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.** |
| CLI | 101 | Introduction to Cyber Leadership | 3 |  | CLI | | 101 | Introduction to Cyber Leadership | 3 |
|  |  |  |  |  | CLI | | 110 | The US Intelligence Community | 3 |
| CLI | 242 | Cyber Social Science Methods and Analysis | 3 |  | CLI | | 242 | Cyber Social Science Methods and Analysis | 3 |
| CLI | 320 | Religion, Beliefs, and Technology | 3 |  | CLI | | 320 | Religion, Beliefs, and Technology | 3 |
| CLI | 420 | Cyber Leadership | 3 |  | CLI | | 420 | Cyber Leadership | 3 |
| CLI  **or**  CLI | 494  498 | Internship  Undergraduate Research Project | 3 |  | CLI  **or**  CLI | | 494  498 | Internship  Undergraduate Research Project | 3 |
| CSC | 105 | Introduction to Computers | 3 |  | CSC | | 105 | Introduction to Computers | 3 |
|  |  |  |  |  | CSC | | 134 | Introduction to Cyber | 3 |
| ~~CSC~~ | ~~145~~ | ~~Cyber Security Fundamentals~~ | ~~3~~ |  |  | |  |  |  |
| ~~CSC~~ | ~~163~~ | ~~Hardware, Virtualization, and Data Communication~~ | ~~3~~ |  |  | |  |  |  |
| CSC  **or**  CSC | 150  123 | Computer Science I  Problem Solving and Programming | 3 |  | CSC  **or**  CSC | | 150  123 | Computer Science I  Problem Solving and Programming | 3 |
| ~~CSC~~  **~~or~~**  ~~CIS~~ | ~~250~~  ~~275~~ | ~~Computer Science II~~  ~~Web Application Programming~~ | ~~3~~  ~~3~~ |  |  | |  |  |  |
|  |  |  |  |  | CSC | | 247 | Introduction to Artificial Intelligence | 3 |
| CSC | 321 | Cyber Law and Policy | 3 |  | CSC | | 321 | Cyber Law and Policy | 3 |
| ENGL | 212 | World Literature II | 3 |  | ENGL | | 212 | World Literature II | 3 |
| HIST | 468 | US and World Affairs: 1900-Present | 3 |  | HIST | | 468 | US and World Affairs: 1900-Present | 3 |
| **Choose 9 credits from the following:** | | | 9 |  | **Choose 9 credits from the following:** | | | | 9 |
| CLI | 310 | Hacking, Hackers, and Hacktivism | 3 |  | CLI | | 310 | Hacking, Hackers, and Hacktivism | 3 |
| CLI | 430 | Intelligence Failures | 3 |  | CLI | | 430 | Intelligence Failures | 3 |
| CLI | 370 | Cyber-Ethics | 3 |  | CLI | | 370 | Cyber-Ethics | 3 |
| CLI | 492 | Topics | 3 |  | CLI | | 492 | Topics | 3 |
| HIST | 358 | The United States Since 1941 | 3 |  | HIST | | 358 | The United States Since 1941 | 3 |
| **Choose one of the following specializations: Digital Forensics (18 credits)** | | |  |  | **Choose one of the following specializations: Digital Forensics (18 credits)** | | | |  |
| CSC | 328 | Operating Environments | 3 |  | CSC | | 328 | Operating Environments | 3 |
| CSC | 285 | Networking I | 3 |  | CSC | | 285 | Networking I | 3 |
| CSC | 385 | Networking II | 3 |  | CSC | | 385 | Networking II | 3 |
| CSC | 388 | Computer Forensics Fundamentals | 3 |  | CSC | | 388 | Computer Forensics Fundamentals | 3 |
| CSC | 418 | Advanced Computer Forensics | 3 |  | CSC | | 418 | Advanced Computer Forensics | 3 |
| CSC | 419 | Advanced Windows Forensics | 3 |  | CSC | | 419 | Advanced Windows Forensics | 3 |
| **World Affairs and Human Behavior Specialization (18 credits)** | | |  |  | **World Affairs and Human Behavior Specialization (18 credits)** | | | |  |
| CLI | 410 | National Security Law | 3 |  | CLI | | 410 | National Security Law | 3 |
| CLI | 440 | Cybercrime | 3 |  | CLI | | 440 | Cybercrime | 3 |
| CLI | 470 | Online Radicalization | 3 |  | CLI | | 470 | Online Radicalization | 3 |
| POLS | 440 | Comparative Government | 3 |  | POLS | | 440 | Comparative Government | 3 |
| SOC | 402 | Social Deviance | 3 |  | SOC | | 402 | Social Deviance | 3 |
| MCOM | 353 | Digital Media Communications |  |  | MCOM | | 353 | Digital Media Communications | 3 |
| CMST | 470 | Intercultural Communication | 3 |  | CMST | | 470 | Intercultural Communication | 3 |
| Total number of hours required for major, minor, or specialization | | | 54 |  | | Total number of hours required for major, minor, or specialization | | | 54 |
| Total number of hours required for degree | | | 120 |  | | Total number of hours required for degree | | | 120 |

1. **Explanation of the Change:**

The reasons for the proposed changes vary by course. These proposed changes have been made in consultation with Drs. Mary Bell and Tom Halverson.

The replacement of CSC 145 (Cyber Security Fundamentals) with CSC 134 (Introduction to Cyber) simply reflects a curriculum change made in the Cyber Operations program. CSC 145 will no longer be offered.

The replacement of CSC 163 (Hardware) with a new, introductory level CLI course on the Intelligence Community is to fill a notable curricular gap in the program. At present, despite its title, the CLI program has relatively few courses that focus on the intelligence agencies and their collection methods. The proposed change will address this gap in the course offerings. Of note, CSC 163 is a prerequisite of CSC 388 (Computer Forensics Fundamentals) – a course that CLI students with a Digital Forensics specialization must take. The prerequisites for CSC 388 are in the process of being removed, so the elimination of CSC 163 should not impact CLI students.

The decision to require CSC 247 (Artificial Intelligence) and eliminate CSC 250 and CIS 275 as options is in response to recent technological advances. It is critical that CLI students have exposure to the concepts and algorithms at the foundation of AI.