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|  | **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 DEGREE:** | **Ph.D.** |
| **CURRENT PROGRAM MAJOR/MINOR:** | **Cyber Defense** |
| **CURRENT SPECIALIZATION** *(If applicable)***:** |  |
| **CIP CODE:** | **11.1003** |
| **UNIVERSITY DEPARTMENT:** | **Computer Science** |
| **BANNER DEPARTMENT CODE:** | **DCSC** |
| **UNIVERSITY COLLEGE:** | **College of Computer and Cyber Sciences** |
| **BANNER COLLEGE CODE:** | **DCSI** |

**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.*

|  |  |  |
| --- | --- | --- |
| A picture containing text  Description automatically generated |  | 3/8/2024 |
| 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) |
|  | Modification requiring Board of Regents approval  *Must have prior approval from Executive Director or designee* | | |

1. **Effective date of change: 5/6/2024**
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. **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. **Is the program being modified associated with a current articulation agreement?**

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

* 1. **If yes, will the articulation agreement need to be updated with the partner institution following the approve of the program change? Please explain:**

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** |
| **~~Required Courses~~** | | | **~~21~~** |  | **Choose one Specialization** | | | | **15** |
| ~~INFA~~ | ~~702~~ | ~~Data Privacy~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~713~~ | ~~Managing Security Risks~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~720~~ | ~~Incident Response~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~721~~ | ~~Computer Forensics~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFS~~ | ~~730~~ | ~~Physical Security~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~731~~ | ~~Personal Security~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~733~~ | ~~Vendor Management~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~754~~ | ~~Intrusion Detection~~ | ~~3~~ |  |  | |  |  |  |
| ~~INFA~~ | ~~758~~ | ~~Security Metrics~~ | ~~3~~ |  |  | |  |  |  |
|  | | |  |  | Data Privacy Specialization | | | | 15 |
|  |  |  |  |  | INFA | | 702 | Data Privacy | 3 |
|  |  |  |  |  | INFA | | 713 | Managing Security Risks | 3 |
|  |  |  |  |  | INFA | | 722 | Data Privacy Management | 3 |
|  |  |  |  |  | INFA | | 726 | Data Privacy Technology | 3 |
|  |  |  |  |  | INFA | | 742 | Ethics and Information Technology | 3 |
|  |  |  |  |  |  | |  |  |  |
|  | | |  |  | Managerial Specialization | | | | 15 |
|  |  |  |  |  | INFA | | 702 | Data Privacy | 3 |
|  |  |  |  |  | INFA | | 713 | Managing Security Risks | 3 |
|  |  |  |  |  | INFA | | 720 | Incident Response | 3 |
|  |  |  |  |  | INFA | | 730 | Physical Security | 1 |
|  |  |  |  |  | INFA | | 731 | Personal Security | 1 |
|  |  |  |  |  | INFA | | 733 | Vendor Management | 1 |
|  |  |  |  |  | INFA | | 758 | Security Metrics | 3 |
|  |  |  |  |  |  | |  |  |  |
|  |  |  |  |  | Technical Specialization | | | | 15 |
|  |  |  |  |  | INFA | | 720 | Incident Response | 3 |
|  |  |  |  |  | INFA | | 721 | Digital Forensics | 3 |
|  |  |  |  |  | INFA | | 735 | Offensive Security | 3 |
|  |  |  |  |  | INFA | | 751 | Wireless Security | 3 |
|  |  |  |  |  | INFA | | 754 | Network Security Monitoring | 3 |
|  |  |  |  |  |  | |  |  |  |
| Research Core | | | 12 |  | Research Core | | | | 12 |
| Dissertation | | | ~~24~~ |  | Dissertation | | | | 27 |
| Electives | | | ~~15~~ |  | Electives | | | | 18 |
| Total number of hours required for major, minor, or specialization | | | 57 |  | | Total number of hours required for major, minor, or specialization | | | 54 |
| Total number of hours required for degree | | | 72 |  | | Total number of hours required for degree | | | 72 |

1. **Explanation of the Change:**

This new program structure was a result of student feedback which showed overwhelming support for creating specialized areas in the program. Therefore, three specialized areas were identified. As specializations appear on a student’s transcript, it will show a student’s expertise in certain areas of Cyber Defense.