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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 DEGREE:** | **Ph.D.** |
| **CURRENT PROGRAM MAJOR/MINOR:** | **Cyber Defense** |
| **CURRENT SPECIALIZATION** *(If applicable)***:** |  |
| **CIP CODE:** | **111003** |
| **UNIVERSITY DEPARTMENT:** | **Computer Science** |
| **BANNER DEPARTMENT CODE:** | **DCSI** |
| **UNIVERSITY COLLEGE:** | **Beacom College of Computer and Cyber Sciences** |
| **BANNER COLLEGE CODE:** | **8N** |

**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.*

|  |  |  |
| --- | --- | --- |
|  |  | 6/13/2022 |
| 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 |
|  |  |  |  |
|[x]  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: 5/16/2022**
2. **Program Degree Level (*place an “X” in the appropriate box*):**

|  |  |  |  |
| --- | --- | --- | --- |
| Associate |[ ]  Bachelor’s |[ ]  Master’s |[ ]  Doctoral |[x]

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

|  |  |  |  |
| --- | --- | --- | --- |
| Certificate |[ ]  Specialization |[ ]  Minor |[ ]  Major |[x]

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 |

|  |
| --- |
|[x]  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.****Hrs.** |  | **Pref.** | **Num.** | **Title** | **Cr. Hrs.** |
| Required Courses | ~~24~~ |  | Required Courses | **21** |
| INFA | 702 | Data Privacy | 3 |  | INFA | 702 | Data Privacy | 3 |
| ~~INFA~~ | ~~710~~ | ~~Cybersecurity Program Design Implementation~~ | ~~3~~ |  |  |  |  |  |
| INFA | 713 | Managing Security Risks | 3 |  | INFA | 713 | Managing Security Risks | 3 |
| INFA | 720 | Incident Response | 3 |  | INFA | 720 | Incident Response | 3 |
| INFA | 721 | Computer Forensics | 3 |  | INFA | 721 | Computer Forensics | 3 |
| INFA | 730 | Physical Security | 3 |  | INFA | 730 | Physical Security | 3 |
| INFA | 731 | Personal Security | 3 |  | INFA | 731 | Personal Security | 3 |
| INFA | 733 | Vendor Management | 3 |  | INFA | 733 | Vendor Management | 3 |
| INFA | 754 | Intrusion Detection | 3 |  | INFA | 754 | Intrusion Detection | 3 |
| INFA | 758 | Security Metrics | 3 |  | INFA | 758 | Security Metrics | 3 |
|  |  |  |  |  |  |  |  |  |
| Electives | ~~12~~ |  | Electives | **15** |
| BADM | 765 | Management & Leadership | 3 |  | BADM | 765 | Management & Leadership | 3 |
| CSC | 748 | Software Exploitation | 3 |  | CSC | 748 | Software Exploitation | 3 |
| CSC | 791 | IS: Collaboration Cyber Security Research | 3 |  | CSC | 791 | IS: Collaboration Cyber Security Research | 3 |
|  |  |  |  |  | **CSC** | **890** | **Seminar (1 credit each)** | **3** |
|  |  |  |  |  | **INFA** | **722** | **Data Privacy Management** | **3** |
| INFA  | 723 | Cryptography | 3 |  | INFA  | 723 | Cryptography | 3 |
|  |  |  |  |  | **INFA** | **726** | **Data Privacy Technology** | **3** |
| INFA | 735 | Offensive Security | 3 |  | INFA | 735 | Offensive Security | 3 |
| INFA | 742 | Ethics and Information Technology | 3 |  | INFA | 742 | Ethics and Information Technology | 3 |
| INFA | 745 | Compliance and Audit | 3 |  | INFA | 745 | Compliance and Audit | 3 |
| INFA | 751 | Wireless Security | 3 |  | INFA | 751 | Wireless Security | 3 |
| INFA | 792 | Topics | 3 |  | INFA | 792 | Topics | 3 |
| INFA  | 794 | Internship | 3 |  | INFA  | 794 | Internship | 3 |
| Research Core | ~~9~~ |  | Research Core | **12** |
| CSC | 803 | Intro to Cyber Security Research | 3 |  | CSC | 803 | Intro to Cyber Security Research | 3 |
| CSC | 804 | Cyber Security Research Methodologies | 3 |  | CSC | 804 | Cyber Security Research Methodologies | 3 |
| CSC | 807 | Cyber Security Research | 3 |  | CSC | 807 | Cyber Security Research | 3 |
|  |  |  |  |  | **CSC** | **808** | **Mixed Research Methods for Computer and Cyber Sciences: Design and Implementation** | **3** |
| Dissertation | ~~27~~ |  | **Dissertation** | **24** |
| CSC | 809 | Dissertation Preparation | 3 |  | CSC | 809 | Dissertation Preparation | 3 |
| CSC | 890 | Seminar (1 credit each) | 3 |  | CSC | 890 | On-site Seminar (1 credit each) | 3 |
| CSC | 898D | Dissertation | 21 |  | CSC | 898D | Dissertation | **18** |
|  |  |  |  |  |  |  |  |  |
| Total number of hours required for major, minor, or specialization | 72 |  | Total number of hours required for major, minor, or specialization | 72 |
| Total number of hours required for degree | 72 |  | Total number of hours required for degree | 72 |

1. **Explanation of the Change:** INFA 710 is being removed from the core. INFA 722, INFA 726 and CSC 890 are being added to the elective list and that electives are increasing by 3 credits. Research core is being increased to add the new CSC 808 course. Dissertation credits are being adjusted.