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|  | **SOUTH DAKOTA BOARD OF REGENTS**ACADEMIC AFFAIRS FORMS |
| New Course Request |
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| **DSU**  |  | **Beacom College of Computer and Cyber Sciences** |
| --- | --- | --- |
| **Institution** |  | **Division/Department** |
|  |  |  |
| **Institutional Approval Signature** |  | **Date** |

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**Section 1. Course Title and Description**

| **Prefix & No.** | **Course Title** | **Credits** |
| --- | --- | --- |
| CSC 233 | Tech Foundations: Secure AI Lifecycles | 1 |

| **Course Description** |  |
| --- | --- |
| This course examines how to secure AI systems across their lifecycle, from data acquisition and model development to deployment and maintenance. Students will identify vulnerabilities, apply risk mitigation strategies, and implement best practices to ensure the security and integrity of AI-enabled systems. |

**Pre-requisites or Co-requisites**

| **Prefix & No.** | **Course Title** | **Pre-Req/Co-Req?** |
| --- | --- | --- |
| None |  |  |

**Registration Restrictions**

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| None |

**Section 2. Review of Course**

1. **Will this be a unique or common course (*place an “X” in the appropriate box*)?**

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| --- |
|[x]  **Unique Course***If the request is for a unique course, institutions must review the common course catalog in the system course database to determine if a comparable common course already exists. List the two closest course matches in the common course catalog and provide a brief narrative explaining why the proposed course differs from those listed. If a search of the common course catalog determines an existing common course exists, complete the Authority to Offer an Existing Course Form. Courses requested without an attempt to find comparable courses will not be reviewed.* |

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| --- | --- | --- |
| **Prefix & No.** | **Course Title** | **Credits** |
| CSC 381 | Offensive Applications of AI | 3 |
| CSC 382 | Adversarial AI and Security | 3 |
| CSC 723 | Machine Learning for Cyber Security | 3 |
| *Provide explanation of differences between proposed course and existing system catalog courses below:* |
| This course focuses on securing AI systems throughout their entire lifecycle, from data acquisition and model development to deployment and maintenance. It differs from CSC 382, which centers on defending AI models from adversarial attacks, and CSC 381, which explores offensive uses of AI in cyber operations. Unlike CSC 723, which applies machine learning to detect cyber threats, this course takes a systems-level approach to designing and maintaining secure, resilient AI. |

**Section 3. Other Course Information**

**3.1. Are there instructional staffing impacts?**

☒ No. Schedule Management, explain below: The course will be offered on a rotating year and semester schedule. It is not anticipated that additional faculty will be needed to deliver this course.

**3.2. Existing program(s) in which course will be offered:** BSAI, AI Cyber (New Minor)

**3.3. Proposed instructional method by university *(as defined by*** [*AAC Guideline 5.4*](https://www.sdbor.edu/administrative-offices/academics/academic-affairs-guidelines/Documents/5_Guidelines/5_4_Guideline.pdf)***)*:** R - Lecture

**3.4. Proposed delivery method by university *(as defined by*** [*AAC Guideline 5.5*](https://www.sdbor.edu/administrative-offices/academics/academic-affairs-guidelines/Documents/5_Guidelines/5_5_Guideline.pdf)***)*:** 001 - Face to Face, 015 - Online Asynchronous

**3.5. Term change will be effective:** Fall 2025

**3.6. Can students repeat the course for additional credit?** ☐Yes, total credit limit: ☒ No

**3.7. Will grade for this course be limited to S/U (pass/fail)?** ☐Yes☒No

**3.8. Will section enrollment be capped?** ☒Yes, max per section: 25 ☐ No

**3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report?** ☐Yes ☒ No

**3.10. Is this prefix approved for your university?** ☒ Yes ☐ No

**Section 4. Department and Course Codes (Completed by University Academic Affairs)**

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| 1. **University Department:**
 | Computer Science |

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| 1. **Banner Department Code:**
 | DSCI |

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| 1. **Proposed** [**CIP Code**](http://nces.ed.gov/ipeds/cipcode/default.aspx?y=55)**:**
 | 11.0102 |
|  |  |
| *Is this a new CIP code for the university?* |[ ]  Yes |[x]  No |