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| S:\Communications\Logos and photos\SDBORLogos\final_sdbor_webreadyBW_trans.gif | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| New Course Request |
|  |  |

Use this form to request a new common or unique course. Consult the system database through Colleague or the [Course Inventory Report](http://apps.sdbor.edu/ris-reporting/CourseInventoryOptions.cfm) for information about existing courses before submitting this form.

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| --- | --- | --- | --- | --- |
| DSU |  | **Beacom College of Computer & Cyber Sciences** | | |
| **Institution** |  | **Division/Department** | | |
| C:\Users\slaughts\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Dr. McKay Signature.jpg | | |  | 2/11/2018 |
| **Institutional Approval Signature** | | |  | **Date** |

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**Section 1. Course Title and Description**

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as you wish it to appear in the system database in Colleague and the [Course Inventory Report](http://apps.sdbor.edu/ris-reporting/CourseInventoryOptions.cfm) including pre-requisites, co-requisites, and registration restrictions.

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| --- | --- | --- |
| **Prefix & No.** | **Course Title** | **Credits** |
| CSC 404 | Foundation of Computation | 3 |

*NOTE: The Enrollment Services Center assigns the short, abbreviated course title that appears on transcripts. The short title is limited to 30 characters (including spaces); meaningful but concise titles are encouraged due to space limitations in Colleague.*

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| **Course Description** |  |
| An overview algorithms and approaches to solving cyber operations problems, which include essential underlying concepts drawn from discrete mathematics, algorithms analysis, and finite automaton. Topics may include, but not limited to: searching and sorting algorithms, complexity theory, regular expressions, computability, mathematical foundations for cryptography, and entropy. | |

*NOTE: Course descriptions are short, concise summaries that typically do not exceed 75 words. DO: Address the content of the course and write descriptions using active verbs (e.g., explore, learn, develop, etc.). DO NOT: Repeat the title of the course, layout the syllabus, use pronouns such as “we” and “you,” or rely on specialized jargon, vague phrases, or clichés.*

**Pre-requisites or Co-requisites (add lines as needed)**

|  |  |  |
| --- | --- | --- |
| **Prefix & No.** | **Course Title** | **Pre-Req/Co-Req?** |
| CSC 300 | Data Structures | Prerequisite |
| MATH 201 | Introduction to Discrete Mathematics | Prerequisite |

**Registration Restrictions**

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**Section 2. Review of Course**

1. **Was the course first offered as an experimental course (*place an “X” in the appropriate box*)?**

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|  | Yes (*if yes, provide the course information below)* |  | No |

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

*If the request is for a unique course, verify that you have reviewed the common course catalog via Colleague and the system* [*Course Inventory Report*](http://apps.sdbor.edu/ris-reporting/CourseInventoryOptions.cfm) *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.*

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|  | **Unique Course** |

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| --- | --- | --- |
| **Prefix & No.** | **Course Title** | **Credits** |
| CSC 445/545 | Intro to Theory of Computation (common SDSMT, SDSU, USD) | 3 |
| CSC 414/512 | Cryptography (unique SDSMT) | 3 |
| *Provide explanation of differences between proposed course and existing system catalog courses below:* | | |
| The BS in Cyber Operations must meet accreditation guidelines so the focus of the proposed course differs from the CSC 445 and CSC 414 courses. Beyond the theoretical aspects, the course must have an applied focus toward the unique security areas in the program. The intention is not a formal theory of computation as found in many computer science programs. | | |

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|  | **Common Course** | | | | *Indicate universities that are proposing this common course:* | | | | | | | | |
|  |  | | | |  | | | | | | | | |
|  |  | BHSU |  | DSU | |  | NSU |  | SDSMT |  | SDSU |  | USD |

**Section 3. Other Course Information**

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

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| --- | --- | --- | --- | --- |
|  | **No**. Replacement of |  | | |
|  |  | (course prefix, course number, name of course, credits) | | |
|  |  | \*Attach course deletion form | | |
|  |  |  | | |
| Effective date of deletion: | | | Click here to enter a date. |  |

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|  | **No**. Schedule Management, explain below:  Current faculty workloads allow the addition of this course in the rotation. This course  will be required in the BS in Cyber Operations. |

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|  | **Yes**. Specify below: |

1. **Existing program(s) in which course will be offered**:

BS in Cyber Operations

1. **Proposed instructional method by university**: Lecture.
2. **Proposed delivery method by university**: 001 and 015
3. **Term change will be effective**: Fall 2018
4. **Can students repeat the course for additional credit?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Yes, total credit limit: |  |  |  | No |

1. **Will grade for this course be limited to S/U (pass/fail)?**

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

1. **Will section enrollment be capped?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Yes, max per section: | 30 |  |  | No |

1. **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**](http://apps.sdbor.edu/ris-reporting/CourseInventoryOptions.cfm)**?**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Yes |  | No |
| *If yes, indicate the course(s) to which the course will equate (add lines as needed):* | | | |
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| **Prefix & No.** | **Course Title** |
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1. **Is this prefix approved for your university?**

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|  | Yes |  | No |
| *If no, provide a brief justification below:* | | | |
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**Section 4. Department and Course Codes (Completed by University Academic Affairs)**

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| 1. **University Department Code:** | DCYOP |

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| 1. **Proposed** [**CIP Code**](http://nces.ed.gov/ipeds/cipcode/default.aspx?y=55)**:** | 11.1003 | | | | |
|  |  | | | | |
| *Is this a new CIP code for the university?* | |  | Yes |  | No |