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|  | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| Existing Courses: Minor Modifications |
|  |  |

Use this form to request minor modifications of existing unique and common courses. Consult the system course database for information about existing courses before submitting this form. If the course revision is for an approved General Education course, please see the Revision to General Education Requirements Form.

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| DSU |  | BIS |  | Jun Liu |  | 9/25/2023 |
| **Institution** |  | **Division/Department** |  | **Originator** |  | **Date** |
|  |  |  |  |  |  |  |
| Dorine Bennett |  | College of Business & Information Systems |  |  |  | Click here to enter a date. |
| **Department Chair** |  | **School/College Dean** |  | **Institutional Approval Signature** |  | **Date** |

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**Section 1. Existing Course Title and Description**

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| **Prefix & No.** | **Course Title** | **Credits** |
| INFS 762 | Data Warehousing and Data Mining | 3 |

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| **Effective Date:** | Click here to enter a date. |

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| **This course is a (*Place an “X” in the appropriate box*):** | | | | |
| ☒ | **Unique Course (see section 2)** |  | ☐ | **Common Course (see section 3)** |

**Section 2. Unique Courses: Requested Minor Modifications**

***Place an “X” in the appropriate boxes*.**

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|  |  | **Current** |  | **New** |
| ☐ | **Prefix change** |  | to |  |

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| ☐ | **Course Number change** |  | to |  |

*NOTE: You may only change a unique course number to a number not currently used in “active” status at another university. Consult the system database.*

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| ☐ | **Credit hours** |  | to |  |

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| ☐ | **Course pre-requisites** |  | to |  |

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| ☐ | **Course co-requisites** |  | to |  |

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| ☐ | **Registration restriction** |  | to |  |

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| ☐ | **Enrollment limitation** |  | to |  |

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| ☐ | **Repeatable for additional credit** |  | to |  |

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| ☐ | **Grading option** |  | to |  |

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| ☐ | **Course title change** |  |

*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 the student information system.*

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| ☐ | **Cross-listing and equating with** |  |

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| ☐ | **Dual-listing at 400/500 level** |

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| ☒ | **Course description (that does not change course content). Complete table below:** |

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| *Existing description:* |
| The main concepts, components, and various architectures of Data Warehouse. Advanced data analysis and optimization of Data Warehouse Design. Data Warehousing and OLAP tools. Applying data mining algorithms to retrieve highly specialized information or knowledge about the data stored in the Data Warehouse. |

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| *New description:* |
| This course first offers an understanding of the main concepts, components, architectures, and design of Data Warehouses. It also introduces data warehousing related repositories including data marts, data lakes and data reservoirs. The course then provides an understanding of data mining/machine learning methodology as well as hands-on experience with applying the methodology to extract insights from data stored in various repositories. Different aspects of data mining such as data import, data exploration, feature transformation and selection, data partitioning, model building, and model assessment will be covered. |
| 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. |

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| ☐ | **Add course in x9x series** | |
| *CIP Code:* |  |

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| *New CIP Code for this university?* |  | ☐ | Yes | ☐ | No |

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| *Will this university’s sections of the course be limited to S/U (pass/fail)?* |

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|  | ☐ | Yes | ☐ | No |

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| ☐ | **Delete Course (effective date):** | Click here to enter a date. |

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| **Justification for changes indicated in Section 2:** |
| We propose to modify the course description to reflect the latest advances in data warehousing related technologies and list various data mining topics covered in the course. |

**Section 3. Common Courses: Requested Minor Modifications**

***Place an “X” in the appropriate boxes*.**

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|  |  | **Current** |  | **New** |
| ☐ | **Credit hours (within variable limits)** |  | to |  |

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| ☐ | **University specific co-requisites** |  | to |  |

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| ☐ | **Cross-listing and equating with** |  |

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| --- | --- |
| ☐ | **Dual-listing at 400/500 level** |

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| ☐ | **Add course in x9x series** | |
| *CIP Code:* |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *New CIP Code for this university?* | ☐ | Yes | ☐ | No |

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| --- |
| *Will this university’s sections of the course be limited to S/U (pass/fail)?* |

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|  | ☐ | Yes | ☐ | No |

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| ☐ | **x9x grading method** |  | to |  |

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| **Justification for changes indicated in Section 3:** |
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**Section 4. Department and Course Codes (Completed by University Academic Affairs)**

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| 1. **University department code:** |  |

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| 1. **Banner department code:** |  |

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| 1. **Change university department code to:** |  |