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|  | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| Existing Courses: Minor Modifications |
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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 778 | Deep Learning | 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** | INFS 768 and INFS 772 | to | (INFS768 or INFS 770) and INFS 772 |

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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** | Deep Learning: Theory and Algorithms. |

*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:* |
| This course introduces the basic concepts and applications of deep learning. Representative deep learning models such as Deep Neural Networks, Convolutional Neural Networks, and Recurrent Neural Networks (LSTM) will be covered in detail. Popular Python deep learning libraries will be introduced. The course also includes discussions on advanced topics such as transfer learning, hyperparameter tuning, regularization, optimization of DNNs, and others |

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| *New description:* |
| This course introduces the theoretical foundations and algorithms of deep learning. Representative deep learning models such as Deep Neural Networks, Convolutional Neural Networks, and Recurrent Neural Networks will be covered in detail. Popular Python deep learning libraries will be introduced. The course also includes discussions on advanced topics such as transfer learning, hyperparameter tuning, regularization, optimization of DNNs, and others. |
| 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 proposed to change INFS 770 to include a discussion of applications of deep learning. This course will focus on the theory and algorithms of deep learning. |

**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:** |  |