



**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](#) for information about existing courses before submitting this form.

College of Computing

DSU

Institution

Division/Department

Click here to enter
a date.

Institutional Approval Signature

Date

Section 1. Existing 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](#) including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
CSC 722	Machine Learning Fundamentals	3

Course Description

A comprehensive study of the theory and the implementation of principle machine learning algorithms. Topics include supervised and unsupervised learning methods for classification, prediction, and decision making.

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

Prefix & No.	Course Title	Pre-Req/Co-Req?

Registration Restrictions

None

Section 2. Review of Course

2.1. Was the course first offered as an experimental course (place an "X" in the appropriate box)?

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

2.2. 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](#) 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.

Unique Course

Prefix & No.	Course Title	Credits
CSC 448/548	Machine Learning	3
INFS 768	Predictive Analytics	3

Provide explanation of differences between proposed course and existing system catalog courses below:

This course assumes a graduate competency in CSC and in the study of the analysis of the theory and in implementation. It will expect a more comprehensive study of the topics than CSC 448/548. It is a more formal investigation of the underlying algorithms and implementation issues than would be covered in INFS 768.

Common Course *Indicate universities that are proposing this common course:*

- BHSU DSU NSU SDSMT SDSU USD

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

- 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.](#)

- No.** Schedule Management, **It will be replacing CSC 714 Database Systems as a required course in the MSACS. CSC 714 will become an elective in the program but will only be offered as current staffing allows.**

- Yes.** Specify below:

3.2. Existing program(s) in which course will be offered: Masters of Applied Computer Science

3.3. Proposed instructional method by university: R - Lecture

3.4. Proposed delivery method by university: on-campus/online

3.5. Term change will be effective: Fall 2017

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

If yes, indicate the course(s) to which the course will equate (add lines as needed):

Prefix & No.	Course Title

3.10. Is this prefix approved for your university?

Yes No

If no, provide a brief justification below:

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

4.1. University Department Code: DCSCS

4.2. Proposed [CIP Code](#): 11.0701

Is this a new CIP code for the university? Yes No