



SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS
New Course Request

<u>USD</u>	<u>Beacom School of Business / Economics and Decision Sciences</u>
Institution	Division/Department
<u>Elizabeth M. Freeburg</u>	<u>11/16/2017</u>
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
DSCI 507	Business Analytics Modeling	3

Course Description
Topics include analytics programming and data management using SAS®, comprising import, export, and transformation of data from sources including SQL databases. Explores the creation of basic reports using SAS® procedures for the identification and correction of data, syntax and logic errors. Use of Base SAS® as general-purpose programming language. Assists students preparing for the Base SAS® Programming Certification Exam.

Pre-requisites: DSCI/CSC 505 or equivalent coursework or experience.

Registration Restrictions N/A

Section 2. Review of Course

2.1. Was the course first offered as an experimental course?
 Yes (if yes, provide the course information below) No

2.2. Will this be a unique or common course?

Unique Course

Prefix & No.	Course Title	Credits
CSC 561	Programming Languages	3
CSC 570	Software Engineering	3

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

DSCI 507 differs from CSC 561 and CSC 570 due to the analytics focus of DSCI 507. DSCI 507 prepares students to use the SAS® Base Programming language to perform data management and data analysis. DSCI 507 will teach students how to get data into the SAS system and prepare imported data for analysis. Students will also learn how to use the SAS system and the SAS Base Programming language features to perform statistical analyses, create charts, and produce reports. CSC 561 studies the syntax (or form) and semantics (or meaning) of languages but not the SAS Base Programming language. CSC 561 has a theory orientation, but DSCI 507 has an applied analytics programming languages orientation. CSC 570 explores the design, coding, and testing phases of the software life cycle, with a focus on building quality software on time and within budget, but is a general course, and does not have an analytics focus.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?
 Yes. Specify below: DSCI 507 is an additional course which will require additional staffing (either adjunct, summer pay or overload).

3.2. Existing program(s) in which course will be offered: Master of Science in Business Analytics

- 3.3. **Proposed instructional method by university:** D-Discussion/Recitation
- 3.4. **Proposed delivery method by university:** 001 Face-to-face Term Based Instruction
- 3.5. **Term change will be effective (enter catalog year):** Summer 2018
- 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: 30 No
- 3.9. **Will this course equate 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)

- 4.1. **University Department Code:** UECDS
- 4.2. **Proposed [CIP Code](#):** 52.1302 Business Statistics
Is this a new CIP code for the university? Yes No