**SOUTH DAKOTA BOARD OF REGENTS**
ACADEMIC AFFAIRS FORMS

# New Course Request

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|---|---|
| **SDSU** | **Engineering / Mathematics & Statistics** |
| **Institution** | **Division/Department** |
| Dennis D. Hedge | 9/22/2020 |
| **Institutional Approval Signature** | **Date** |

## Section 1. Course Title and Description

| Prefix & No. | Course Title | Credits |
|---|---|---|
| STAT 654 | Machine Learning and AI for Pattern Recognition and Clustering | 3 |

**Course Description**

course would serve as a complement to these CSC and INFS courses as opposed to duplicating them.

## Section 3. Other Course Information

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

No. Schedule Management, explain below: This course will be taught during the spring. The faculty member has available workload to teach this course.

**3.2. Existing program(s) in which course will be offered:** Statistics (M.S.), Data Science (M.S.)

**3.3. Proposed instructional method by university:** R - Lecture

**3.4. Proposed delivery method by university:** 001 Face-to-Face Term Based Instruction; 015 - Internet Asynchronous Term Based Instruction

**3.5. Term change will be effective:** Spring 2021

**3.6. Can students repeat the course for additional credit?** Yes 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: No

N/A

5. Desired section size 30
6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
   Cedric Neumann, Associate Professor, Ph.D.
7. Note whether adequate facilities are available and list any special equipment needed for the course.
   Adequate facilities are available. No special equipment is needed.
8. Note whether adequate library and media support are available for the course.
   Adequate library and media support are available.
9. Will the new course duplicate courses currently being offered on this campus? Yes No
10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined.
    N/A