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|  | **SOUTH DAKOTA BOARD OF REGENTS**ACADEMIC AFFAIRS FORMS |
| New Course Request |
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| **DSU**  |  | **College of Education and Human Performance** |
| --- | --- | --- |
| **Institution** |  | **Division/Department** |
|  |  |  |
| **Institutional Approval Signature** |  | **Date** |

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**Section 1. Course Title and Description**

| **Prefix & No.** | **Course Title** | **Credits** |
| --- | --- | --- |
| EXS 762 | Biomechanical Instrumentation and Measurement | 3 |

| **Course Description** |  |
| --- | --- |
| This course provides a comprehensive overview of the instrumentation and measurement techniques used in biomechanical research and practice. Students will learn about the design, implementation, and analysis of experiments involving biomechanical data collection. Topics include motion capture systems, force platforms, electromyography (EMG), and pressure sensors. |

**Pre-requisites or Co-requisites**

| **Prefix & No.** | **Course Title** | **Pre-Req/Co-Req?** |
| --- | --- | --- |
| None |  |  |

**Registration Restrictions**

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| None |

**Section 2. Review of Course**

1. **Will this be a unique or common course (*place an “X” in the appropriate box*)?**

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|[x]  **Unique Course***If the request is for a unique course, institutions must review the common course catalog in the system course database 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. Courses requested without an attempt to find comparable courses will not be reviewed.* |

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| --- | --- | --- |
| **Prefix & No.** | **Course Title** | **Credits** |
| EXS 751 | Lab Tech Exercise Physiology | 3 |
|  |  |  |
| *Provide explanation of differences between proposed course and existing system catalog courses below:* |
| SDSU's EXS 751 incorporates a broad spectrum of technologies spanning multiple subdisciplines within the field of Exercise Science, including, body composition, performance assessments, pulmonary function, and cardiorespiratory analysis. Our proposed course (EXS 762) focuses on technologies specific to biomechanical instrumentation. More specifically, we will be using two specific pieces of technology in various contexts: a force platform to collect kinetic data, motion capture system to collect kinematic data, and the combination of the two to collect joint-level kinetic data. SDSU’s EXS 751 aims to prepare students to be adept exercise scientists (i.e., generalist) while DSU’s EXS 762 aims to prepare students to be proficient biomechanists (i.e., specialists). |

**Section 3. Other Course Information**

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

☒ No. Schedule Management, explain below: The course will be offered on a rotating year and semester schedule. It is not anticipated that additional faculty will be needed to deliver this course.

**3.2. Existing program(s) in which course will be offered:** Biomechanics Specialization, MSAI

**3.3. Proposed instructional method by university *(as defined by*** [*AAC Guideline 5.4*](https://www.sdbor.edu/administrative-offices/academics/academic-affairs-guidelines/Documents/5_Guidelines/5_4_Guideline.pdf)***)*:** R - Lecture

**3.4. Proposed delivery method by university *(as defined by*** [*AAC Guideline 5.5*](https://www.sdbor.edu/administrative-offices/academics/academic-affairs-guidelines/Documents/5_Guidelines/5_5_Guideline.pdf)***)*:** 001 - Face to Face, 015 - Online Asynchronous, 018 - Online Synchronous, 029 - Hybrid Online, 030 - Hybrid F2F

**3.5. Term change will be effective:** Fall 2025

**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: ☒ 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

**3.10. Is this prefix approved for your university?** ☒ Yes ☐ No

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

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| 1. **University Department:**
 | DED |

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| 1. **Banner Department Code:**
 | DHPER |

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| 1. **Proposed** [**CIP Code**](http://nces.ed.gov/ipeds/cipcode/default.aspx?y=55)**:**
 | 310505 |
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| *Is this a new CIP code for the university?* |[ ]  Yes |[x]  No |