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|  | **SOUTH DAKOTA BOARD OF REGENTS**  ACADEMIC AFFAIRS FORMS |
| Substantive Program Modification Form |
|  |  |

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

|  |  |
| --- | --- |
| **UNIVERSITY:** | DSU |
| **CURRENT PROGRAM DEGREE:** | **Master of Science in Education (MSEd)** |
| **CURRENT PROGRAM MAJOR/MINOR:** | **Educational Technology** |
| **CURRENT SPECIALIZATION** *(If applicable)***:** |  |
| **CIP CODE:** | **13.0501** |
| **UNIVERSITY DEPARTMENT:** | **Education** |
| **BANNER DEPARTMENT CODE:** | **DEDU** |
| **UNIVERSITY COLLEGE:** | **College of Education** |
| **BANNER COLLEGE CODE:** | **DED 8E** |

**University Approval**

*To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.*

|  |  |  |
| --- | --- | --- |
| A picture containing text  Description automatically generated |  | 2/2/2024 |
| Vice President of Academic Affairs or  President of the University |  | Date |

|  |
| --- |
|  |

1. **This modification addresses a change in (*place an “X” in the appropriate box*):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Total credits required within the discipline |  | Total credits of supportive course work |
|  |  |  |  |
|  | Total credits of elective course work |  | Total credits required for program |
|  |  |  |  |
|  | Program name |  | Existing specialization |
|  |  |  |  |
|  | CIP Code |  | Other (explain below) |
|  | Modification requiring Board of Regents approval  *Must have prior approval from Executive Director or designee* | | |

1. **Effective date of change: 5/13/2024**
2. **Program Degree Level (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Associate |  | Bachelor’s |  | Master’s |  | Doctoral |  |

1. **Category (*place an “X” in the appropriate box*):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Certificate |  | Specialization |  | Minor |  | Major |  |

1. **If a name change is proposed, the change will occur (*place an “X” in the appropriate box*):**

|  |  |
| --- | --- |
|  | On the effective date for all students |

|  |  |
| --- | --- |
|  | On the effective date for students new to the program (enrolled students will graduate from existing program) |
|  |

|  |  |
| --- | --- |
| **Proposed new name:** | **Education and Technology** |
|  | *Reminder: Name changes may require updating related articulation agreements, site approvals, etc.* |

1. **Is the program being modified associated with a current articulation agreement?**

|  |  |  |  |
| --- | --- | --- | --- |
| Yes |  | No |  |

* 1. **If yes, will the articulation agreement need to be updated with the partner institution following the approval of the program change? Please explain:**

After ongoing discussions with Division Chair of Teacher Education, Dan Mourlam at the University of South Dakota, we agree that the goal of the USD MSTET program has shifted from its original mandate to focus on “technology related management and administration for K12 personnel”[[1]](#footnote-2) to a pursuit of Technology Integration and Coaching in K-12 instruction. At the same time, DSU’s MSET program seeks to scale Educational Technology, Computer Science & Cyber Education in its regental mandated outreach to the K12 classroom educator.

1. **Primary Aspects of the Modification (*add lines or adjust cell size as needed*):**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Existing Curriculum* | | | | *Proposed Curriculum (highlight changes)* | | | | | |
| **Pref.** | **Num.** | **Title** | **Cr.**  **Hrs.** |  | **Pref.** | | **Num.** | **Title** | **Cr. Hrs** |
|  | | |  |  |  | | | |  |
| **~~CIP Code: 13.0501 A program that focuses on integrating technology into educational curricula. Includes instruction in foundations of educational technology, computer applications, utilizing technology for assessment, multimedia instruction, web-based instruction, distance education, and~~** **~~designing and producing educational software and materials.~~** | | | |  | **CIP Code: 11.0101** A general program that focuses on computing, computer science, and information science and systems. Such programs are undifferentiated as to title and content and are not to be confused with specific programs in computer science, information science, or related support services. | | | |  |
|  | | |  |  |  | | | |  |
| **~~Shared Core~~** | | | **~~15~~** |  |  | | | |  |
| ~~LT~~ | ~~712~~ | ~~Instructional Technology for Active Learning~~ | ~~3~~ |  |  | |  |  |  |
| ~~LT~~ | ~~716~~ | ~~Systematic Design of Instruction~~ | ~~3~~ |  |  | |  |  |  |
| ~~LT~~ | ~~731~~ | ~~Multimedia Production~~ | ~~3~~ |  |  | |  |  |  |
| ~~LT~~ | ~~741~~ | ~~Intro to Distance Education~~ | ~~3~~ |  |  | |  |  |  |
| ~~LT~~ | ~~785~~ | ~~Research Methods in Educational Technology~~ |  |  |  | |  |  |  |
|  |  |  |  |  |  | |  |  |  |
| **Required DSU Courses** | | | 8 |  | **Required Courses** | | | | 12 |
| CET | 720 | Leading Evaluation & Change in Educational Technology Environment | 3 |  | CET | | 720 | Leadership and Evaluation of Educational Technology | 3 |
|  |  |  |  |  | CET | | 722 | Instructional Design for Interactive Learning | 3 |
|  |  |  |  |  | CET | | 726 | Visual Design for Learning | 3 |
|  |  |  |  |  | CET | | 785 | Research Methods in Educational Technology | 3 |
| ~~CET~~ | ~~756~~ | ~~Intro to Instructional Programming~~ | ~~2~~ |  |  | |  |  |  |
| ~~CET~~  ~~CET~~ | ~~751~~  ~~753~~ | ~~Technology Hardware and Networking Essentials~~  ~~Or Network Management in Education Institutions~~ | ~~3~~ |  |  | |  |  |  |
|  |  |  |  |  |  | |  |  |  |
| **~~Electives~~** | | | **~~7~~** |  |  | | | |  |
| ~~CET~~ | ~~657~~ | ~~Network and Operating Systems Topics~~ | ~~2~~ |  |  | |  |  |  |
| CET | 721 | Web Authoring | 1 |  |  | |  |  |  |
| CET | 723 | Inclusive STEM Instruction | 2 |  |  | |  |  |  |
| CET | 725 | Educational Applications for Mobile Devices | 3 |  |  | |  |  |  |
| ~~CET~~ | ~~749~~ | ~~Policy and Management for Distance Education~~ | ~~3~~ |  |  | |  |  |  |
| ~~CET~~ | ~~750~~ | ~~Multimedia II~~ | ~~2~~ |  |  | |  |  |  |
| ~~CET~~ | ~~788~~ | ~~Master’s Research Problems/Projects~~ | ~~2~~ |  |  | |  |  |  |
| CET | 792 | Topics | 1-3 |  |  | |  |  |  |
| ~~CET~~ | ~~795~~ | ~~Practicum~~ | ~~3~~ |  |  | |  |  |  |
| ~~CET~~ | ~~798~~ | ~~Thesis~~ | ~~3~~ |  |  | |  |  |  |
|  |  |  |  |  | Choose one Specialization | | | | 18 |
|  |  |  |  |  |  | |  |  |  |
|  |  |  |  |  | Educational Technology (ET) Specialization | | | | 18 |
|  |  |  |  |  | CET | | 756 | Intro to Instructional Programming | 3 |
|  |  |  |  |  | CET | | 741 | Learning Science in Online Education | 3 |
|  |  |  |  |  | CET  CET | | 751  753 | Technology Hardware and Networking Essentials  OR  Network Management in Educational Institutions | 3 |
|  |  |  |  |  | Choose 9 credits from the following | | | | 9 |
|  |  |  |  |  | CET | | 532 | Esports Foundations and Systems | 3 |
|  |  |  |  |  | CET | | 723 | Inclusive STEM Instruction | 3 |
|  |  |  |  |  | CET | | 725 | Emerging Technologies in Education | 3 |
|  |  |  |  |  | CET | | 721 | Web Authoring | 1 |
|  |  |  |  |  | CET | | 792 | Topics | 1-3 |
|  |  |  |  |  | CSC courses listed in the Computer Science and Cyber Education Specialization | | | | 3-9 |
|  |  |  |  |  |  | |  |  |  |
|  |  |  |  |  | Computer Science and Cyber Education (CSCE) Specialization | | | | 18 |
|  |  |  |  |  | CSC | | 611 | Cyber Leadership and Ethics | 3 |
|  |  |  |  |  | CSC | | 613 | Artificial Intelligence for Educators | 3 |
|  |  |  |  |  | CSC | | 617 | Cybersecurity for Educators | 3 |
|  |  |  |  |  | CSC | | 626 | Computer Programming for Educators | 3 |
|  |  |  |  |  | CSC | | 653 | Hardware and Networking for Educators | 3 |
|  |  |  |  |  | CSC | | 683 | Cybersecurity Practicum | 3 |
|  |  |  |  |  | [Note: CSC courses are labeled at the 600 level to distinguish them from other CSC courses offered at the 700/800 level which graduate students in computer science, cyber operations, cyber defense, artificial intelligence and quantum computing can sometimes use for elective credit.] | | | | |
| Total number of hours required for degree | | | 30 |  | | Total number of hours required for degree | | | 30 |
| Total number of hours required for degree | | | 30 |  | | Total number of hours required for degree | | | 30 |

1. **Explanation of the Change:**

Since its beginning in 1999, K-12 educators have looked to Dakota State University’s Master of Science in Education Technology program to provide them with standards-based skills (ISTE) and expertise to use computer technology in complex ways to support student learning and to help their teaching peers do the same. Our graduates have moved their schools and districts into wireless network environments with abilities to use technological devices that in some cases have been catalysts for community transformation. But the computing and technology challenges that teachers face today are much different than they were nearly twenty-five years ago when MSET began. It is time that our program again looks ahead to prepare educators for emerging needs and opportunities.

Aligning with our institutional mission ([SDCL 13-59 -2.2](https://sdlegislature.gov/Statutes/Codified_Laws/2043078).), and encouraged by the SD Board of Regents focus on Academic Excellence and High Impact Student Practices (Strategic Plan 2022-2027, Goal 3), this generation of our degree program prepares teachers to know, teach, and apply neo-global digital skills in cyber security, data privacy (social media), artificial intelligence, cloud computing, and learning analytics (et al.) while remaining anchored to standards-based learning outcomes. Additionally, the introduction of two specializations (18 cr. hrs.), Educational Technology and Computer Science & Cyber Education, creates a stronger disciplinary foundation for educators to offer new opportunities to their students. The specialization Computer Science & Cyber Education will equip South Dakota teachers to teach in the Governor’s Cyber Academy (GCA) by credentialing them in secondary computer science education. These changes aim to foster innovative, competent professionals prepared to lead in the computer-science sector, which is what the South Dakota Board of Regents has encouraged graduate programs at its member institutions to do (BOR Policy 1:10:5).

The university is proposing a change in CIP code which more aligns with the proposed changes in the major with the addition of specializations.

1. Agenda Item Q-1, South Dakota Board of Regents. Date June 24-25, 1999. [↑](#footnote-ref-2)