

BLACK HILLS STATE UNIVERSITY COLLEGE OF EDUCATION &  
SOUTH DAKOTA CENTER FOR THE ADVANCEMENT OF  
MATHEMATICS & SCIENCE EDUCATION



**Graduate Programs in Science Education**

K-12 Science Specialist Endorsement

ED 609: Contemporary Issues in Science Education (2 credits)

ED 619: Earth and Space Science Concepts for K-12 Teachers (2 credits)

ED 629: Life Science Concepts for K-12 Teachers (2 credits)

ED 639: Physical Science Concepts for K-12 Teachers (2 credits)

ED 659: Translating Theory into Practice: Life Science (2 credits)

\*ED 669: Translating Theory into Practice: Physical and Earth Science (2 credits)

ED 679: Assessment of Science Teaching and Learning (2 credits)

ED 749: History, Nature, and Context of Science (2 credits)

ED 759: Leadership in K-12 Science (2 credits)

\* If you have already taken ED 649: Translating Theory into Practice: Earth and Space Science you will take ED 663, Graduate Writing, for one credit rather than ED 630 for three credit in the first semester of the MSCI.

Additional Requirements: Master's degree or National Board Certification plus 3 years of experience teaching science in a K-12 setting.

Master of Science in Curriculum & Instruction with Specialization in Science Education (MSCI)

18 specialization credits plus 17 MSCI core class credits constitute a combined master's degree and K-12 science specialist program (35 credits).

ED 630: Educational Inquiry and Collaboration (3 credits)

*\*\*The requirements of ED 630 (3) will be met by taking ED 663 Graduate Writing (1) + ED 609 Contemporary Issues in Science Education (2)*

ED 703: Applying Learning Theory to Instruction & Assessment (3 credits)

ED 744: Curriculum Development & Instruction (3 credits)

ED 750: Action Research in Schools (3 credits)

ED 748: Cultural Diversity in Schools (3 credits)

ED 790: Educational Research in Schools (2 credits)

Graduate-level Certificate in Science Education

Six of the 10 specialist courses listed above constitute a 12-credit certificate program: 609, 679, 749, and 759 plus one science concepts course and one theory into practice course.