

Graduate Certificate Programs at Minot State University

The certificates listed below are concentrated programs of study with required graduate credits. Once a student completes the required courses, a student must submit the certificate graduation application for the certificate to be posted on the transcript.

In order for a prospective student to engage in a certificate program, they are required to submit an application to the certificate of choice. Their file will be sent to the department to be reviewed for acceptance into a MSU graduate certificate program.

Certificate Program: Computer Science Education

The graduate certificate in Computer Science Education is a specialized program tailored to high school educators who aspire to teach dual credit Computer Science courses as well as to qualify for the highest-level Computer Science and Cybersecurity Credential recognized by the North Dakota Education Standards and Practices Board (ESPB). This 18-credit certificate program will be a comprehensive and hands-on educational journey that equips educators with a broad base of knowledge in the fields of Computer Science and Cybersecurity as well as the pedagogical expertise necessary to excel.

CSCI 541	Exploring Computer Science Education	3
CSCI 542	Exploring Problem Solving in Computer Science Education	3
CSCI 543	Foundations of Computer Programming	3
CSCI 544	Data Structures and Algorithms	3
CSCI 545	Foundations of Data Science	3
CSCI 557	Foundations of Information Assurance and Security	3
Total Hours		18

Certificate Program: CyberSecurity Management

CYBR 560	Strategic Management of Information Systems	3
CYBR 557	Foundations of Information Assurance and Security	3
CYBR 575	Network Security Management	3
Total Hours		9

Certificate Program: Deaf/Hard of Hearing Education

These certificate programs have been developed to assist ND teachers to become qualified to work with children and students with disabilities from birth through age 21 by offering a set of coursework at the graduate level that meets the National Council for Exceptional Children's certification standards for each individual special education discipline. These certificate programs will be identified on the university transcript thus demonstrating completion of the approved certificate program.

Pre-requisites

SPED 510	Law and Policy in Special Education	3
SPED 513	Deaf Studies	3
SPED 565	Early Intervention: Deaf/HH	3
SPED 583	Strategies to Support Listening and Spoken Language	3
SPED 584	Teaching Language to Deaf/HH	3
SPED 585	Advanced Audiology for Educators of the Deaf/Hard of Hearing	3
SPED 586	Teaching Reading/Academics to DHH	4
SPED 515	Practicum	2
SPED 533	Clinical Practice in Assessment	1

Pre-Requisite of an Introductory Course (SPED 512) may apply.

Total Hours		25
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Certificate Program: Knowledge Management

Designed for students who are eager to learn about creating and exchanging organizational knowledge as well as explore graduate education. All courses are offered online and the certificate may be completed in two semesters.

BADM 535	Management Principles and Practices	3
BIT 570	E-Business Strategy	3
CYBR 560	Strategic Management of Information Systems	3
CYBR 566	Knowledge and Change Management	3
Total Hours		12

Certificate Program: Leadership Studies

BIT 510	Leadership Communication	3
or LEAD 510	Leadership Communication	
BADM 537	Human Resource Management	3
or LEAD 537	Human Resource Management	
or BADM 538	Talent Management and People Analytics	
or LEAD 538	Talent Management and People Analytics	
BADM 540	Organizational Leadership	3
or LEAD 540	Organizational Leadership	
Total Hours		9

Certificate program: Mathematics Education

MATH 508	History and Philosophy of Mathematics for Teachers	3
MATH 513	Precalculus for Teachers	3
MATH 514	Geometry for Teachers	3
MATH 521	Probability and Statistics for Teachers	3
MATH 565	Calculus for Teachers	3
MATH 590	Trends, Methods, and Technology in Mathematics Education	3
Total Hours		18

Certificate Program: Professional Writing

Necessary courses for the Professional Writing Certificate include the following foundational courses:

ENGL 534	Grant Writing	3
ENGL 592	Special Topics	3
In addition, one writerly/writing intensive (WI) course from the selected discipline must be chosen from the list below:		3
ED 521	Integrating Technology into Teaching and Learning	
LEAD 510	Leadership Communication	

Total Hours **9**

Certificate Program: Special Education Strategist

These certificate programs have been developed to assist ND teachers to become qualified to work with children and students with disabilities from birth through age 21 by offering a set of coursework at the graduate level that meets the National Council for Exceptional Children's certification standards for each individual special education discipline. These certificate programs will be identified on the university transcript thus demonstrating completion of the approved certificate program.

SPED 510	Law and Policy in Special Education	3
SPED 515	Practicum	2
SPED 517	Methods for Mild Disabilities	3
SPED 533	Clinical Practice in Assessment	1
SPED 532	Communication Development and Interventions	3
SPED 555	Explicit Academic Instruction	3
SPED 561	Classroom Management and Positive Behavior Support	3
SPED 529	Assistive Technology	2
Total Hours		20

Certificate Program: Sports Administration

The certificate in Sport Administration offers current sports professionals, including high school coaches and teachers, an opportunity to enhance their skills within one year by enrolling in four 8-week courses in sports. Students will complete 12 credits to earn this certificate. Students earning this certificate may apply it toward the Master of Science in Sports Management.

KIN 510	Sports Leadership and Administration	3
KIN 555	Sports Law	3
KIN 540	Foundations of Sports and Exercise Psychology	3
KIN 560	Sports Media and Event Planning	3
or FIN 550	Sports Finance and Budgeting	
Total Hours		12

Certificate Program: Trauma Informed Teaching

ED 558	Trauma Informed Practice for Teachers	3
ED 535	Models of Teaching and Learning	3
ED 519	Diversity in a Global Perspective	3
Total Hours		9

Certificate Program: Writing for Educators

Students must take the following two foundational courses:

ENGL 534	Grant Writing	3
ENGL 592	Special Topics	3

In addition, students must choose four graduate English courses from those listed below. Please note that ENG 592 may be taken a second time for a total of six credit hours:

ENGL 516	Research in Teaching Writing	
ENGL 525	Topics in Language Arts Pedagogy	
ENGL 536	Enrich Reading in Content Area	
ENGL 545	Topics in Teaching Writing	
ENGL 597	Independent Study	
Total Hours		18