

# Master of Science in Teaching and Leadership

## Admission Requirements

The applicant must meet the School of Graduate Studies' current minimum general admission requirements as published in the graduate catalog.

1. A four-year bachelor's degree from a recognized college or university [preferably in the specialization area or near equivalent].
2. A cumulative Grade Point Average (GPA) of at least 2.75 for all undergraduate work or a GPA of at least 3.0 for the junior and senior years of undergraduate work (based on A = 4.00).
3. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.

## Admission Process

1. Complete the School of Graduate Studies online application.
2. Submit the application fee.
3. Submit a current resume or curriculum vitae
4. Submit three (3) letters of recommendation that address the academic and professional qualities that support you for graduate work. These 3 letters should come from: 1) a current education supervisor or administrator; 2) a professional colleague or university professor that has knowledge of your work/work ethic; and 3) a person of your choosing that can speak to your readiness for graduate work and potential for success.
5. Send official transcripts from each institution attended to UND's Office of Admissions
6. Submit a response to the Statement of Goals and Objectives, Essay, and Program Questions as outlined below.

## Statement of Goals and Objectives

As part of the application process, the applicant must respond to the following questions: (suggested length = no more than 500 words per question response)

1. Describe several personal and professional goals you would like to achieve in the next five years. Include in your description reasons why these goals are important to you.
2. Review the specializations available to students in the MSTL program. Which of these are you interested in and explain why this specialization area (and/or certificate, if applicable) aligns with your personal/professional goals identified in question 1.

## Essay

As part of the application process, the applicant must respond to the following questions: (suggested length = no more than 500 words per question response)

1. What are the characteristics, attitudes, values, and/or skills that you believe will make you a good candidate for your [current and/or future] professional role?
2. What have you already done professionally or personally of which you are proud? Please include a chronological history of all professional teaching or administration experiences, as well as academic honors or achievements you have earned.

## Program Questions

Please consider the following questions in light of the Master of Science in Teaching & Leadership program and profession to which you are applying.

(Each answer should be approximately 300 words.)

1. What initially sparked your interest in the field in which you are pursuing graduate education? Describe how you first became interested in this profession.
2. As lifelong learners, we all have areas of strength and areas of further development. Please describe the strengths you will bring to this program. Please describe the areas of development or challenge that you expect to encounter in this program.
3. This program requires students to be receptive and open to constructive feedback from instructors and supervisors. How do you typically receive constructive feedback?
4. How do you typically manage deadlines for work or school? How do you plan to meet deadlines for this program as they arise?

## Degree Requirements

1. A minimum of 30 credits
2. A maximum of one-fourth of the credit hours may be transferred from another institution, depending on the courses and grades, with director approval
3. Maintenance of at least a cumulative 3.0 GPA for all MSTL classes
4. Successful completion of the program's Exit Interview and/or Exit Survey

Core Requirements (14 or 15 core credits) | for Dual Credit Specializations (11 or 12 core credits)

Code	Title	Credits
Core		
EDL 512	Leading K-12 Classroom Assessment and Grading	3
EDL 513	Leading K-12 Curriculum and Instruction	3
T&L 532	Leading K-12 Educator Learning	3
T&L 569	Action Research	3
or		
T&L 579	Inquiry into Professional Practice	3
T&L 995	Scholarly Project (or)	2
		or
		3
SPED 995	Scholarly Project (or)	2
		or
		3
EFR 995	Scholarly Project (or)	2
		or
		3
EDL 995	Scholarly Project	2
		or
		3

## Specialization Area Coursework (15 - 19 credits)

Choose one Specialization. The Specializations include the following: Principalship, Early Childhood Education, Elementary Education, Instructional Coaching, Middle/Secondary Education, STEM+ C Education, Behavioral Supports in Special Education, Secondary Math Education\*, Secondary Biology Education\*, Secondary Chemistry Education\*, Secondary Physics Education\*, Applied Data Research, or Generalist.

(\* = prepares students for Dual Credit certification eligibility)

Code	Title	Credits
<b>Principalship Specialization - Requires up to three years of teaching experience (16 credits)</b>		
EDL 501	Leadership and Organizational Behavior	3
EDL 514	Supervision and Professional Development	3
EDL 515	Education Law and Ethics	3
EDL 519	Principalship	3
EDL 593	Internship in Educational Leadership	4
<b>Early Childhood Education (18 credits)</b>		
T&L 511	Assessment in ECE	3

T&L 517	Social Emotional Learning Guidance	3	BIOL 506	Ecology for Teachers	3
T&L 526	Play in Development and Early Childhood Education	3	BIOL 512	Advanced Evolutionary Analysis	3
T&L 527	Curricular Foundations in Early Childhood Education	3	BIOL 533	Grassland Ecology	3
T&L 529	Language Development Cognition in Children	3	BIOL 590	Special Topics	6-12
T&L 553	Collaborative Relationships: Home, School and Community	3	various course studies: Analysis of Biology Data for Teachers; Animal Biology; Conflict & Controversy in Biology, and/or Scientific Teaching of Biology		
<b>Elementary Education Specialization (15 credits)</b>			<b>Secondary Chemistry Education (Dual Credit- 18 credits)</b>		
T&L 518	Curriculum and Methods for Teaching STEM	3	CHEM 401	Nanotechnology Nanomaterials	3
T&L 519	Social Studies in the Elementary School	3	CHEM 402	Trends in Forensic and Environmental Analytical Chemistry	3
T&L 522	Mathematics in the Elementary School	3	CHEM 455	Spectroscopy and Structure	3
T&L 530	Foundations of Reading Instruction	3	CHEM 466	Fundamentals of Physical and Biophysical Chemistry	3
Select any ONE (3-credit) elective course		3	CHEM 561A	Teaching Fundamental Chemistry I	3
<b>Instructional Coaching Specialization (15 credits)</b>			CHEM 563A	Approaches to Teaching Organic Chemistry I	3
T&L 563	K-12 Classroom Based Coaching Practices	3	<b>Secondary Physics Education (Dual Credit- 18 credits)</b>		
T&L 564	Designing Professional Development for K-12 Educators	3	PHYS 501T	Mathematical Methods in Physics for Teachers	2
T&L 565	K-12 Instructional Coaching Clinical	3	PHYS 502T	Physics I for Teachers	3
EDL 501	Leadership and Organizational Behavior	3	PHYS 503T	Physics II for Teachers	3
EDL 514	Supervision and Professional Development	3	PHYS 504T	Physics III for Teachers	2
<b>Middle/Secondary Education Specialization (15 credits)</b>			PHYS 505TL	Physics I/II/III for Teachers Laboratory: Online	2
EFR 500	Introduction to the Foundations of Education	3	PHYS 506T	Conceptual Classical Mechanics for Teachers	2
T&L 542	Models of Teaching	3	PHYS 507T	Conceptual Electromagnetism for Teachers	2
T&L 577	Assessment of Learning (Content Area Elective)	3	PHYS 508T	Conceptual Quantum Physics for Teachers	2
Select any TWO (3-credit) elective courses		6	<b>Applied Data Research (15 credits)</b>		
<b>STEM+ C Education Specialization (15 or 16 credits)</b>			EFR 506	Multicultural Education	3
T&L 560	Computer Science for Teachers I	4	EFR 509	Introduction to Applied Educational Research	3
T&L 561	Computer Science for Teachers II	4	EFR 510	Participatory Qualitative Research Methods	3
T&L 562	Specialized Methods: Computer Science	2	EFR 515	Statistics I	3
Select any TWO (3-credit) courses from the following options:			EFR 530	Learning Analytics	3
T&L 518	Curriculum and Methods for Teaching STEM	3	<b>Generalist Specialization (15 credits)</b>		
T&L 552	Online Teaching Practice Innovation	3	Select FIVE (3-credit) courses from any of the Specialization areas (totaling 15 credits)		
T&L 554	Nature of Science and Science Education	3			
T&L 555	Issues of Motivation and Equity in STEM Education	3			
T&L 556	Constructivism in STEM Teaching and Learning	3			
<b>Behavioral Supports in Special Education Specialization (15 or 16 credits)</b>					
SPED 525	Legal/Ethical Aspects in Special Education	3			
ABA 540	Concepts and Principles in Behavior Analysis	3			
ABA 541	Methods and Applications in Behavior Analysis	3			
ABA 542	Ethical and Professional Conduct for Behavior Analysts	3			
ABA 545	Assessment and Behavior Change Systems	4			
<b>Secondary Mathematics Education (Dual Credit - 18 or 19 credits)</b>					
Six Electives - Select ANY 6 (3-credit) courses from the following options:					
MATH 409	Geometry	3			
MATH 421	Statistical Theory I	3			
MATH 422	Statistical Theory II	3			
MATH 441	Abstract Algebra	3			
STAT 500	Computing for Statistics (required as a pre- or co-requisite for all STAT courses below)	1			
STAT 541	Linear Statistical Models	3			
STAT 542	Advanced Topics in Statistics and Probability	3			
STAT 543	Design of Experiments	3			
STAT 545	Multivariate Statistics	3			
STAT 547	Time Series	3			
STAT 551	Statistical Graphics	3			
STAT 553	Modern Nonparametric Statistics	3			
STAT 555					
<b>Secondary Biology Education (Dual Credit- 18 credits)</b>					
Six Electives- Select ANY 6 (3-credit) courses from the following options:					
BIOL 505	Biological Inquiry for Teachers	3			