Teaching and Learning (T&L)

Courses

T&L 220. Lakota Linguistics for Teachers 1. 3 Credits. This is an introductory course on Lakota linguistics designed for Lakota language teachers. It focuses on three main components of Lakota grammar: (i) Lakota pronunciation and alphabet, (ii) Lakota inflectional morphology, and (iii) Lakota sentence structure (syntax). The first component is a thorough introduction to Lakota phonemic inventory, historic and current writing systems and methodology on how to teach pronunciation, listening comprehension and how to develop phonemic awareness in second language acquisition of Lakota. The second component offers a comprehensive coverage of Lakota conjugation of all verb classes and types. The third component introduces Lakota sentence structure up to intermediate level. On demand.

T&L 250. Introduction to Education. 3 Credits. This course is designed for students exploring the profession of teaching in early childhood, elementary, middle, or secondary schools. You will study what it means to be a teacher, the role of schools in a diverse society, and the foundations of education. You will participate in field experiences in schools, role-playing, simulations, and peer-teaching to explore teaching in today’s schools. F, S.

T&L 251. Understanding Individuals with Different Abilities. 3 Credits. This course is designed to introduce students to foundational knowledge of individuals with different abilities addressing the identification, supports, range of services, assessment components, and evidence-based teaching practices. Historical, legal, cultural, and societal influences that impacts educational success will be explored. F, S, SS.

T&L 252. Child Development. 3 Credits. Study of the growth and developmental process through adolescence. A basis for understanding basic needs of the normal child and means of meeting them in the child’s home and community environment. F, S.

T&L 286. Field Experience. 1 Credit. Supervised tutorial or apprentice teaching experience in an early childhood, K-12 classroom, university or community setting approved by the program area. S/U grading. Prerequisite: Consent of instructor. Repeatable to 3 credits. S/U grading. F, S.

T&L 310. Introduction to Early Childhood Education. 3 Credits. An overview of the early childhood education field, including an introduction to its historical roots; current theories, program models and issues; curriculum development; and typical and atypical development of young children. There will be a minimum of six hours of observation and/or activities in the field. F, S.

T&L 311. Observing and Assessing Children. 3 Credits. This course acquaints the student with a variety of ways of observing, recording, and analyzing the behavior and development of children. Assessment of children will be analyzed by looking at a variety of assessment activities that can be done with children. There will be a minimum of eight hours of field experience. Prerequisites: Admission to Teacher Education Program and T&L 310, F, S.

T&L 313. Language Development and Emerging Literacy. 3 Credits. This course examines both typical and atypical development of language and thought in children ages birth-8. Children’s emergent literacy is studied within the context of language development. There will be a minimum of eight hours of field experience. Prerequisite: Admission to the Teacher Education program. F.

T&L 316. Behavioral Assessment and Tiered Supports in Education. 3 Credits. The study of behavior management within a multi-tiered system of support (MTSS) for the educational advancement of children and youths in schools. Behavior concepts, assessments, and interventions are applied within the MTSS framework as defined by contemporary special education laws and regulations. Prerequisite or Corequisite: T&L 315, F, S.
T&L 339. Educational Technology. 2 Credits.
Students will demonstrate a sound understanding of technology concepts and operations that not only support classroom curriculum but provide an avenue for continuing professional development. Students will learn to apply technology to facilitate a variety of effective assessment and evaluation strategies. The class will help students understand the social, ethical, legal and human issues that surround the use of technology in PK-12 schools. Prerequisite: Admission to the Teacher Education program. F.S.

T&L 341. Foundations of Middle Level Education. 2 Credits.
This course promotes understanding the needs of early adolescent students and of the interdisciplinary, collaborative teaching approaches associated with the middle school philosophy. The course addresses the components of organization. Prerequisite: Admission to the Teacher Education program. F.

T&L 345. Curriculum, Instruction, and Assessment. 3 Credits.
A general curriculum development and instruction course designed for the undergraduate pre-service middle school and/or secondary teacher across all disciplines. It introduces and provides practice in planning, multiple instructional strategies, and methods of formal and informal assessment. It considers the impact of historical foundations, teaching philosophy, discipline standards, knowledge of diverse learners and special needs, and technology on curriculum development. Prerequisites: Admission to Teacher Education Program and T&L 250. F.S.

T&L 350. Development and Education of the Adolescent. 3 Credits.
A comprehensive examination of the characteristics and behavior of the adolescent student with implications for curriculum and instruction in the junior/ middle and high schools. Topics covered will be transition from childhood to adolescence, including cognitive development, self-concept, physiological changes, social needs and values, and values and attitudes of adolescents. This course will provide an understanding of the wide range of differences in developmental patterns of children and the influences of economic, sociological and psychological factors in development. A field experience is part of the course. Prerequisites: Admission to Teacher Education Program and T&L 250. F.

T&L 370. Differentiated Instruction. 3 Credits.
An introduction to the principles of differentiation including responsive instructional and assessment strategies, learner preferences, and the dynamics of a differentiated learning environment. Managing and organizing a differentiated approach to teaching is also presented. S.

T&L 386. Field Experience. 1 Credit.
Supervised tutorial or apprentice teaching, experience in an early childhood, K-12 classroom, university or community setting approved by the program area. Optional. Prerequisites: Admission to Teacher Education Program and T&L 250. S/U grading, F.S.

T&L 390. Special Topics. 1-3 Credits.
May be repeated. Prerequisite: Admission to the Teacher Education Program. Repeatable.

T&L 400. Methods and Materials. 3 Credits.
Various teaching methods and strategies and the materials used in teaching in a subject area. (Some Methods and Materials courses carry an academic department prefix and number. The number of methods courses required by a department may vary. Consult with an adviser.) Some offered F only; some F.S. See adviser. Prerequisites: T&L 250 and T&L 345, and admission to the Teacher Education program. Corequisites: T&L 486. Repeatable to 18 credits. F.S.

T&L 401. School Safety Science. 1 Credit.
Prepares students to plan for and communicate about a wide variety of classroom and laboratory safety issues. Health and safety issues are examined for the classroom teacher and the students in all science courses, including electrical safety, biological safety, chemical use, storage and disposal, legal issues, liability reduction and cost control are also addressed in detail. Prerequisites: Admission to Teacher Education Program. Corequisite: T&L 400. F.

T&L 404. Assessment in the Elementary Classroom. 1 Credit.
Elementary teachers must know how to design and use classroom assessments across all content areas as a way to monitor student learning and achievement, and to inform their decisions about instruction and the learning environment. This course will outline procedures for designing or selecting, administering, scoring, and interpreting a variety of formative and summative assessments for use in elementary classrooms. By exploring assessments aligned to educational objectives and standards, students will evaluate student learning outcomes across the elementary grades and content areas. In addition, students will become familiar with measures to assess learners with special needs and to assess learners from linguistically and culturally diverse backgrounds.

T&L 405. Data Literacy for Teachers. 1 Credit.
Teachers in all grade levels and program areas must know how to effectively and responsibly use student assessment data to inform their practice and address individual student needs and learning goals. This course will introduce students to various sources of assessment data, how to analyze patterns and themes in the data in order to make individual and programmatic decisions, and how to discuss data trends with colleagues as part of a professional learning community. Through careful examinations of real student data and discussions with community educators and administrators, students in this course will gain an understanding of the role and purpose of data and how to meaningfully use it to guide instruction. F.S.SS.

T&L 409. Reading in the Content Areas. 3 Credits.
This course emphasizes instructional strategies for reading and writing, as well as the use of varied texts, in the content area classroom. Prerequisite: Admission to the Teacher Education program. S.

T&L 410. Teaching Reading in the Elementary School Classroom (TEAM). 3 Credits.
A study of methods for teaching and assessing reading in the elementary school classroom with an emphasis on planning instruction that is child-centered, process-oriented and literature-based. Prerequisite: Admission to the Teacher Education program; see department for approval. F.S.

T&L 411. Primary Reading and Language Arts. 2 Credits.
This course explores a wide variety of developmentally-appropriate instructional practices for teaching primary level children multiple ways of communicating and experiencing language. This course emphasizes integrating reading, writing, speaking and listening as forms of creative and personal expression. Effective methods of teaching children to decode and encode print are studied. Prerequisites: T&L 335 and admission to the Teacher Education program. Prerequisite or Corequisite: T&L 328. F.S.

T&L 413. Assessing and Correcting Reading Disabilities. 2 Credits.
The focus of this course and practicum is to learn about current approaches to assessment and methods to assist students who are having difficulty with reading and writing. Observations, running records, interviews, and other evaluation procedures are used to learn about reader and writers, and these assessments are used to plan for instruction. Prerequisites: T&L 335 and admission to the Teacher Education program. Corequisites: T&L 414. SS.

T&L 414. Corrective Reading Practicum. 2 Credits.
Applying the knowledge and skills learned in T&L 413, students in this practicum assess, plan for and teach children who are having difficulty with reading and/or writing. Prerequisites: T&L 335 and admission to the Teacher Education program. Corequisites: T&L 413. SS.

T&L 415. Language and Literacy Development of English Language Learners. 3 Credits.
This course includes study of various approaches to ELL/bilingual education, methods of instruction, assessment of English language proficiency and classroom learning, and teaching academic content to ELLs in the general education classroom. Prerequisite: Admission to the Teacher Education program or permission of instructor. S.

T&L 416. Adolescent Literacy Development. 3 Credits.
A study of adolescent literacy development with emphasis on instructional strategies and practices for reading and responding to texts, helping struggling readers, and engagement in literacy. Prerequisite: Admission to the Teacher Education program or permission of instructor. F.

T&L 417. Writing & Language Arts Methods. 2 Credits.
A study of methods for teaching writing and language arts to children in grades K-6. Emphasis is placed on process-oriented writing approaches; spelling and grammar; ways of using language for creative, personal, and content area expression. Prerequisites: Admission to Teacher Education Program and T&L 335 and T&L 328. F.S.
T&L 422. Development of the Gifted and Talented. 2 Credits.
Research and theory for understanding the development needs of the more able child in early childhood and in educational experiences. S.

T&L 423. Assessment and Individualized Planning in Special Education. 3 Credits.
A study of the principles and practices of: (1) obtaining diagnostic information on school-related problems of a student; (2) assimilating this information and prescribing appropriate alterations based on continuous measurement data. Prerequisites or Corequisites: TL 315 and T&L 319. F,S.


T&L 428. Assistive Technology. 1 Credit.
An overview of the various forms of technology (e.g., communication boards, switches, software) that may be used to assist students with disabilities. F,SS.

T&L 430. Social Studies in the Elementary School (Team). 3 Credits.
To understand and analyze the different modes of teaching social studies, to gain the competencies necessary for organizing a unit in the social studies, to gain an understanding of the values and multiple perspectives inherent within the various teaching strategies, to develop a preferred perspective on the ideal nature of Social Studies education. Prerequisite: Admission to the Teacher Education program; see department for approval. F,S.

T&L 432. Learning Environments. 3 Credits.
The purpose of this class is to study psychological, social, and cultural factors that influence classroom behavior and to examine elements that contribute to a positive learning environment. A field experience is included in the course. Prerequisite: Admission to the Teacher Education program. F,SS.

T&L 433. Multicultural Education. 3 Credits.
This class takes an anthropological view of multicultural education. It will help students better understand students in culturally diverse classrooms as well as preparing them to teach about cultural diversity. This class examines several cultures but is particularly interested in Native Americans of North Dakota. Prerequisite: Admission to the Teacher Education program. F,SS.

T&L 440. Mathematics in Elementary School (Team). 3 Credits.
Students explore how to facilitate the learning of mathematics in a constructivist environment through the use of investigations, manipulatives, technology, and holistic forms of assessment. Current trends in teaching mathematics are emphasized, with particular attention to documents created by the National Council of Teachers of Mathematics. Prerequisite: Admission to the Teacher Education program. F,SS.

T&L 443. Mathematics for Primary Grades. 2 Credits.
Math for Primary Grades focuses on curriculum and methods for teaching mathematics in kindergarten through the third grade. Students actively engage in projects and activities that help them develop a conceptual understanding of teaching mathematics in a cooperative and constructivist environment where children view themselves as as mathematicians. Emphasis is placed on the use of manipulative, problem solving activities and children’s literature in the planning and organizing of developmentally appropriate classroom activities and lessons. Prerequisite: Admission to the Teacher Education program. F,S.

T&L 444. Assessing and Correcting Mathematics Difficulties. 2 Credits.
The focus of this course and the co-requisite practicum is to learn about current approaches to assessment and methods to assist students who are having difficulty with mathematics. Observations, error pattern analysis, interviews, and other evaluation procedures are used to learn about elementary students’ mathematical abilities, and these assessments are used to plan for instruction. Corequisites: T&L 413 and T&L 486. F.

T&L 453. Methods and Materials: Kindergarten. 2 Credits.
Exploration of curriculum, methods, and materials for use in kindergarten settings. Prerequisites: Admission to Teacher Education Program and T&L 310. F,SS.

T&L 456. Early Childhood Ed Seminar. 1 Credit.
This seminar continues the exploration of curriculum, methods, and materials issues as they are presented in the particulars of the student teaching experience. Prerequisites: T&L 333 and admission to Teacher Education Program. Corequisite: T&L 487. F,S.

T&L 465. Middle Level Curriculum and Methods. 5 Credits.
This methods course takes a hands-on approach to increasing understanding and application of the various methods and strategies for teaching early adolescent students. This course addresses techniques, strategies, materials, and a content area knowledge base necessary for promoting student learning and success in a middle school setting. Prerequisite: T&L 341. Corequisites: T&L 486. S.

T&L 470. Science in the Elementary School (TEAM). 3 Credits.
A survey of teaching strategies, materials, and resources appropriate for promoting science inquiry in elementary classrooms. Prerequisite: Admission to the Teacher Education program; see department for approval. F,S.

T&L 471. Physical Science in the Elementary School. 1-4 Credits.
Hands-on approach to learning basic physical science topics such as electricity, sound, light, and force. Effective teaching strategies are also emphasized. F,S.

T&L 472. Teaching Life Science in the Elementary School. 2 Credits.
Hands-on approach to learning basic biology topics such as cells, plants, animals, and ecosystems. Effective teaching strategies are also emphasized. F,S.

T&L 473. Earth and Space Science. 1-4 Credits.
Hands-on approach to learning basic earth and space science topics such as erosion, plate tectonics, water quality, pollution, astronomy, planets, and the solar system. Effective teaching strategies are emphasized. SS.

T&L 486. Field Experience. 1-4 Credits.
Supervised tutorial or apprentice teaching experience in an early childhood, K-12 classroom, university, or community setting approved by the program area. Prerequisite: Admission to the Teacher Education program. Repeatable to 16 credits. S/U grading. F,S.

T&L 487. Student Teaching. 4-16 Credits.
Provides student with the opportunity to assume the role of a classroom teacher in an educational setting under the supervision of a cooperating teacher and a University faculty member. Prerequisites: Permission of program, senior standing only. Prerequisite or Corequisite: T&L 488. Repeatable. S/U grading. F,S.

T&L 488. Senior Seminar. 1 Credit.
A discussion of problems, professional obligations, and careers in teaching. To be taken concurrently with or the semester prior to student teaching. Prerequisite: T&L 487 to be taken concurrently with or the semester prior to student teaching. S/U grading.

T&L 489. Senior Capstone: Responsive Teaching. 3 Credits.
Course is taken with student teaching. Teacher candidates engage in written communication and critical thinking in the context of student teaching. Course engagements require candidates to develop and implement curriculum and assessment; analyze and reflect on assessment results to respond to learners’ needs; and synthesize professional artifacts to demonstrate ability to plan, implement, assess and reflect on teaching and learning. Corequisite: Acceptance into Student Teaching. F,S.

T&L 493. Workshop. 1-4 Credits.
Special problems in Special Education; consideration of special problems of concern to the Special Education teacher and other educators. Repeatable to 8 credits. F,S.

T&L 495. Independent Study. 1-4 Credits.
This course is designed for the interested student’s pursuit of an area of study not offered through regular courses. In addition, students can continue to pursue subject matter covered in courses in greater depth. Repeatable to 8 credits.

T&L 496. Special Projects. 1-8 Credits.
Course number reserved for committee approved proposals, independent study, special colloquia, or experimental courses.

T&L 511. Assessment in ECE. 3 Credits.
This course examines the construct and practice of assessment for teaching in birth to third-grade learning environments. The course considers the critical issues related to assessment and accountability in schools, focusing on why assessment is necessary, who the various assessment audiences are, what kind of assessment information is useful for each, and the time frame appropriate for such assessment information. Students study a variety of assessment methods currently used to evaluate teaching and learning in classrooms. They also discuss ways to communicate formative information about student progress to families, collaborate with colleagues to use assessment results to modify grade-level curricula for children with diverse abilities, and advocate for culturally, linguistically, and developmentally-appropriate forms of assessment. S.

T&L 513. Linguistics for ELL Teachers. 3 Credits.
This course introduces the complexities of human language through the study of phonetics, phonology, morphology, syntax and semantics. Additional topics addressed include the brain and language, history of the English language, psycholinguistics, writing systems and language in social contexts. SS.

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T&L 514. Introduction to Multilingual Education. 3 Credits.
This course explores language education models, programs and policies with an emphasis on English language learners (ELLs). Political, legal, historical, and cultural contexts of multilingual education will be discussed with a focus on both U.S. and global challenges.

T&L 515. Middle School Curriculum. 3 Credits.
This course examines the middle school curriculum and instructional strategies as well as the needs of early adolescents. The course focuses on the roles teachers play in incorporating a guided, interdisciplinary, collaborative team approach. The studies include the components of curriculum learning, advisory, exploration, learning communities and instruction (differentiation, cooperative learning, learning styles, instructional strategies) incorporated in middle schools.

T&L 516. Philosophy and Foundations of Middle School Education. 3 Credits.
This course examines the historical and philosophical background of middle level education. The focus is on the roles teachers/administrators play in incorporating this guided, interdisciplinary, collaborative team approach that assists students during these fundamentally transformative years. The course looks at the philosophical aspect of the curriculum and instructional component. The studies explore contemporary issues associated with the middle school as well as the adaptations necessary for special circumstances affiliated with middle schools.

T&L 517. Social Emotional Learning & Guidance. 3 Credits.
This course is designed to offer strategies for caregivers to support young children's positive social and emotional development, behavior, and learning through the exploration of how early experiences shape development. The emotional and social development of children, including the causes, expressions, prevention and management of challenging behaviors in all children birth to age eight are examined. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental implications, adverse childhood risk factors, and intervention strategies. Students will identify factors influencing emotional/social development, utilize screening measures, and design positive behavioral supports. SS.

T&L 518. Science in the Elementary School. 3 Credits.
A study of current trends and practices associated with teaching and assessing inquiry-based science in elementary classrooms.

T&L 519. Social Studies in the Elementary School. 3 Credits.
A study of current trends and practices associated with teaching and assessing social studies in elementary classrooms.

T&L 520. Curriculum and Instruction in the Elementary School. 4 Credits.
A study of processes for planning, implementing, and evaluating curriculum and improving instruction in elementary schools.

T&L 521. Differentiated Instruction. 3 Credits.
An introduction to the principles of differentiated instruction. Topics of study include: brain-based learning, responsive instructional and assessment strategies, linking curriculum standards to learner needs, organizing and managing a differentiated classroom, and relevant resources for implementation.

T&L 522. Mathematics in the Elementary School. 3 Credits.
A study of current trends and practices associated with teaching and assessing inquiry-based math in elementary classrooms.

T&L 523. Literacy Instruction for English Language Learners. 3 Credits.
This course addresses the foundations of teaching English language and literacy to English Language Learners (ELLs). Topics will include practices for reading and writing instruction, vocabulary development, assessment of reading and writing, choosing literature for ELLs, and the incorporation of media and technology in ELL literacy instruction. SS.

T&L 524. Reading in the Content Areas. 2 Credits.
How and why reading should be taught in the content areas (i.e. Social Studies, Science, Mathematics, etc.). Research studies in the field of content reading and a variety of instructional practices are reviewed.

T&L 525. Writing in the Classroom. 3 Credits.
This course examines writing as a process that is developmental, cultural, social, and individual. Emphasis is on effective implementation of the essential structures of writing workshop and on monitoring and assessing writers' growth.

T&L 526. Play in Development and Early Childhood Education. 3 Credits.
This course explores the role of play in cognitive, physical and social-emotional development, and the way in which play is incorporated into educational and other programmatic settings. Students will explore how assessment of play indicates a child's development, and they will use assessment to promote Developmentally Appropriate Practices (DAP) for PreK-Grade 3 (ages 3-8) learners.

T&L 527. Curricular Foundations in Early Childhood Education. 3 Credits.
This course examines the historical, philosophical, cultural, race, class, and gender influences on curriculum in early childhood, including the philosophy and mission of the Department of Teaching and Learning.

T&L 528. Children's and Young Adult Literature in the Classroom. 3 Credits.
This course explores the major area of literature for children and young adults in response to two questions: What is the range of literature available for children and young adults today? In what ways might children's and young adult literature be used in the classroom to promote literacy growth?. SS.

T&L 529. Language Development & Cognition in Children. 3 Credits.
This course provides foundational information about language and cognitive development in children. The course content will also analyze typical and atypical language and cognitive development. The focus of the course will include children birth to age eight.

T&L 530. Foundations of Reading Instruction. 3-4 Credits.
This course focuses on the relationship between reading theory, research, contemporary issues and instructional practice. Emphasis is placed on strategic systems related to effective reading, instructional approaches that support the development of these strategic systems and assessment as collecting evidence of effective reading behaviors.

T&L 531. Early Literacy Development and Instruction. 3 Credits.
A study of early literacy processes including phonemic and print awareness, word recognition, comprehension, and writing. Emphasis is on reviewing current research and theory, assessment and instruction practices, and bridging language and literacy development in literacy rich environments.

T&L 532. Leadership in Literacy. 3 Credits.
The role of the literacy coach is to support teachers in closing the gap between learners' performance and achievement in reading and writing. Topics in this course will include providing leadership for a school's literacy program, collaboration with teachers and administrators, curriculum issues, knowledge of literacy standards, and professional development facilitation. On demand.

T&L 533. Secondary English Language Arts & Literacy Instruction. 3 Credits.
This graduate level course explores teaching literacy in the English Language Arts middle and high school classroom. Students will explore how the traditional and contemporary approaches to teaching literature, nonfiction, and digital media work to support the advanced literacy goals of reading, writing, listening and speaking for adolescents. Students will explore Language Arts instructional methods and develop curriculum in the areas of literature, writer's workshop, academic inquiry, language vocabulary, and digital literacy. Students will also explore the ways the literacy program is supported and assessed throughout the entire secondary school. SS.

T&L 534. Basic Reading Diagnosis and Remediation. 2 Credits.
Focuses on common causes of reading disability, methods of diagnosis, and corrective reading programs in the classroom. Corequisite: T&L 583.

T&L 535. Advanced Reading/Language Arts Diagnosis and Remediation. 2 Credits.
Analysis of interrelationships of learning difficulties in language arts areas and procedures for remediation. Prerequisites: T&L 530 and T&L 534.

T&L 536. Innovations in English Language Arts Instruction. 3 Credits.
This course considers the current curricular trends and research-based best practices in teaching English Language Arts. Students will critically examine and apply current instructional approaches in teaching English language and vocabulary, classroom discourse practices, and digital literacies. We will consider the ways various instructional methods support the advancement of literacy development for all students, considering ways to modify and adapt curriculum to meet the cultural and linguistic diversity of today's classrooms. On demand.

T&L 537. ELL Methods and Materials. 3 Credits.
This course explores current methods and materials in ELL education, with a focus on teaching academic language and sheltered content instruction. F,S,SS.
T&L 539. Supervision of Student Teaching. 2 Credits.
For supervisors and directors of student teaching in colleges and cooperating schools. Principles and practices on how to provide the most beneficial experiences for student teachers.

T&L 539. College Teaching. 3 Credits.
Explores learning styles and teaching styles, the components and responsibilities involved in college teaching, methods of teaching and motivating students, and current issues related to instruction in the college classroom.

T&L 540. Theory and Philosophies of Curriculum in Schools. 3 Credits.
This course explores the historical development of the K-12 curriculum, the philosophical and theoretical aspects applied to curriculum, and the social conditions that impact curriculum.

T&L 541. History of Higher Education in the United States. 3 Credits.
Study of major events and people shaping higher education in the U.S. Role, philosophy, and organization of institutions of higher education discussed.

T&L 542. Models of Teaching. 3 Credits.
This course focuses on various models of teaching: social interaction, information-processing, inquiry and behavioral. The purpose of the course is to provide teachers with a variety of instructional models related to meaningful learning experiences for students.

T&L 543. Scholarly Writing. 3 Credits.
Designed to assist students with learning the art of scholarly writing, this course will aid students in designing, formatting, and completing research-based and other scholarly writing projects, as well as understanding the rules and norms of academic publishing.

T&L 544. Assessment in Higher Education. 3 Credits.
A wide range of assessment issues in higher education will be explored. This includes course, program, and institutional assessment as well as classroom assessment techniques. Students will examine and understand the assessment process.

T&L 545. Adult Learners. 3 Credits.
This course will cover theories of adult development, current research on adult learners, ways of assessing the needs and interests of adult learners, and ways of creating environments in which adult learners can thrive.

T&L 546. College Students with Special Needs. 3 Credits.
This course explores the range of special needs college students bring to campus and how faculty, staff, and administrators might appropriately meet those needs. Prerequisite: Admission to the School of Graduate Studies or instructor permission. S.

T&L 547. Technology in Higher Education. 3 Credits.
Students will examine the various uses and integration of technology and media in higher education by faculty in their attempt to engage learners with each other, the course content, and with instructors.

T&L 548. The Professoriate. 3 Credits.
This course is a study of the development of the American professoriate by way of historical, scholarly, popular, and contemporary perspectives. It also examines the transition of new faculty members to their initial academic appointment.

T&L 549. Seminar. 1-4 Credits.
The seminar will focus on a specific topic relating to teaching and learning. The specific content will vary depending upon student needs and faculty resources. Repeatable. S/U grading.

T&L 550. Assessment and Evaluation in ELL Education. 3 Credits.
This course combines readings and theoretical discussion of assessment with hands-on experience in assessing ELLs. Students will learn how to use a variety of formal and informal assessments with a focus on how to use assessment data in planning instruction. Topics will include classroom-based assessments, language proficiency testing, testing accommodations for ELLs, and assessment of ELLs for special education and gifted education, and ELL program evaluation.

T&L 551. Second Language Acquisition for ELL Teachers. 3 Credits.
This course will explore the socio- and psycho-linguistic aspects of interlanguage by studying the theories and research of first and second language acquisition. Students will examine the nature of learners and their individual differences during the stages of language development, with a focus on children and K-12 classrooms.

T&L 553. Collaborative Relationships: Home, School and Community. 3 Credits.
A course appropriate for anyone working with families, early childhood educators, general educators, special educators, related service personnel, administrators and outside agency personnel. Topics covered include: (1) the various models of collaboration and consultation and the stages of each; (2) communication skills; (3) problem-solving; (4) conflict management; (5) diverse perspectives; (6) information collection procedures; (7) supervisory skills; (8) family characteristics and structure across the lifespan; (9) family focused intervention; (10) school choices; and (11) school issues such as poverty, domestic violence, teasing, bullying, and school violence.

T&L 555. Middle School Science and Engineering Lab1:Solids. 2 Credits.

T&L 559A. MS Sci.Eng-2: Solids. 3 Credits.
Prerequisites: T&L 558, admission to Graduate School, ND Teacher licensure and Admission to program "Improving Math and Science Literacy of Middle and High School Students of North Dakota Through Teacher-Faculty Partnerships".

T&L 559B. MS Sci.Eng-2: Solids. 3 Credits.
Prerequisites: T&L 558, admission to Graduate School, ND Teacher licensure and Admission to program "Improving Math and Science Literacy of Middle and High School Students of North Dakota Through Teacher-Faculty Partnerships".

T&L 566. Brain in Memory and Learning. 3 Credits.
Prerequisite: Admissions to Grad School.

T&L 567. Language Structure and Analysis for ELL Teachers. 3 Credits.
This course explores the grammatical and discourse structures of the modern English language, analysis of grammar and discourse with a focus on specific problem areas for ELLs, and pedagogical implications for English language development.

T&L 568. Research and Advocacy in TESOL. 3 Credits.
This course prepares teachers to both understand and conduct research in TESOL. Emphasis will be placed on using research data to advocate for changes and improvement in ELL education.

T&L 569. Action Research. 3 Credits.
The study of the philosophy and methods of action research. Emphasis is focused on analysis of and reflection on one’s teaching for the purpose of improvements in student learning. Prerequisite: Graduate status. S.

T&L 571. Teacher Education. 3 Credits.
Practices, issues, and trends in the design and implementation and assessment of programs for the preparation and development of K-12 teachers.

T&L 572. Teacher Education: Focus on the Learner. 3 Credits.
The study of teacher education in relation to the lives of P-12 students. This course includes the examination of children and their lives through aspects of race, religion, socioeconomic, linguistics and age, and considers educational implications for preservice and inservice teachers.

T&L 573. Middle School Science and Engineering Lab2: Liquids/Gas. 2 Credits.

T&L 574. MS Sci.Eng-4: Liquid/Gas. 3 Credits.
Prerequisites: T&L 573, admission to Graduate School, ND Teacher licensure and Admission to program "Improving Math and Science Literacy of Middle and High School Students of North Dakota Through Teacher-Faculty Partnerships".

T&L 575. Middle School Science and Engineering Lab3: Mot/Elec. 2 Credits.

T&L 576A. MS Sci.Eng-6: Motion/Electric. 3 Credits.
Prerequisites: T&L 575, admission to Graduate School, ND Teacher Licensure and employment as a teacher in a ND school.

T&L 576B. MS Sci.Eng-6: Motion/Electric. 3 Credits.
Prerequisite: T&L 576A.

T&L 577. Assessment of Learning. 3 Credits.
This course addresses the theory and practice of assessment, specifically the process of gathering and discussing information from multiple and diverse sources in order to develop a deep understanding of what students know, understand, and can do with their knowledge as a result of educational experiences.
T&L 579. Classroom Based Inquiry. 3 Credits.
Concepts learned in T&L 569 will be looked at in-depth and theoretical constructs such as Living Theory, Self Study, and Critical Theory constructs will be studied. Students plan and conduct an in-depth inquiry project within a school setting, complete the associated IRB, and create and academic poster and/or prepare a proposal of the Inquiry project for a professional setting. Prerequisites: TL graduate status and T&L 569; or by permission of instructor. F,S.

T&L 580. Practicum in Schools. 1-4 Credits.
Practicum in study of desirable school practices, observations in nearby schools, and application of research findings in solving practical problems. Prerequisites: Appropriate foundational and major area courses, and consent of the instructor and advisor. Repeatable.

T&L 581. Resident Internship. 4 Credits.
A full-time, year-long internship experience conducted in a cooperating school district. Interns are assigned as members of instructional teams with full responsibility for a portion of the cooperating school's instructional program. Prerequisites: Participation in the summer program prior to the internship and teaching licensure (see dept for approval).

T&L 582. Resident Internship. 4 Credits.
A full-time, year-long internship experience conducted in a cooperating school district. Interns are assigned as members of instructional teams with full responsibility for a portion of the cooperating school's instructional program. Prerequisites: Participation in the summer program prior to the internship and teaching licensure (see dept for approval).

T&L 583. Reading Clinic. 2 Credits.

T&L 584. Internship in Education. 1-8 Credits.
This is a culminating experience primarily for Sixth year and Doctoral students. The internships will be identified in one of the following sub-areas: (A) Educational Administration, (B) Special Education, (C) Curriculum, (D) Educational Research, or (E) Teacher Education. Prerequisites: Appropriate foundational, cognate, and major area coursework and consent of advisor and instructor. Repeatable.

T&L 589. Professional Development: Resident Teacher Program. 2 Credits.
This field-based experience provides mentoring and coaching, translates baccalaureate theory and research into practice, and requires active participation in the school placement and classroom setting. Issues and topics relevant to first year teachers and graduate education are emphasized through field work and discussions. Prerequisite: Admission into the Elementary Education Resident Teacher Program. SS.

T&L 590. Special Topics. 1-4 Credits.
Exploration of special topics in the study of education not regularly included in available course offerings. May be repeated for different topics. Prerequisite: Consent of instructor or advisor. Repeatable.

T&L 591. Readings in Education. 1-4 Credits.
Designed primarily for advanced graduate students. May be repeated for different topics. Prerequisite: Consent of instructor and advisor. Repeatable.

T&L 593. Independent Projects. 1-4 Credits.
Repeatable.

T&L 595. Scholarly Project. 2 Credits.
The scholarly project demonstrates critical analysis and application of information and experiences gained throughout the program of study. The project allows students to demonstrate scholarly skills in an integrated manner that is directly related to their roles as teachers, program evaluators, and action researchers. The scholarly project must be approved by the student’s adviser.

T&L 596. Continuing Enrollment. 1-12 Credits.
Repeatable. S/U grading.

T&L 597. Independent Study. 2 Credits.

T&L 598. Thesis. 1-9 Credits.
Repeatable to 9 credits.

T&L 599. Dissertation. 1-15 Credits.
Repeatable to 15 credits.