



North Carolina A&T State University

School of Education

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Master of Arts in Teaching - M.A.T. Program

Program Overview

The primary design of the M.A.T. program will be two-tiered. The first tier will include all of the course work needed for "A" licensure, including an internship requirement and passing the appropriate examinations of Praxis II. The second tier will include a research requirement and other courses that complete standards for the advanced master's degree and will qualify the candidate for the advanced "M" licensure.

About The Program:

Situated within the School of Education's conceptual framework of "The Professional Educator: A Catalyst for Learning" the proposed degree program is designed for college graduates who have decided to enter the teaching profession, many of whom will already be lateral entry teachers, teachers changing fields and prospective candidates who are taking coursework before entering the classroom. It is another way of addressing the critical teacher shortage, since post baccalaureate students accepted to this program will have the academic credentials and maturity necessary to complete both introductory and advanced work in teacher education in a graduate level program. The Master of Arts in Teaching will enable prospective teachers, who bring content knowledge to the graduate degree, the opportunity to develop the knowledge skills, and dispositions to become excellent teachers

Candidates may choose to complete only the first phase of the M.A.T. Program, called Phase I: Licensure. Successful completion of this phase will result in a recommendation for the initial "A" license.

Complete prerequisites, if required

Programs

The M.A.T. Program at North Carolina A&T State University offers 12 different content areas. The content areas, along with their Program of Study, are listed below.

MAT - Biology Education

Entrance Requirements - Minimum GPA of 2.5 Prerequisites -

- Technology
- Genetics

Phase I (Initial Licensure Coursework) 25 hours

Course	Title	Credit Hours
SPED 661	Exceptionalities of Children	3.0
CUIN 624	Teaching Reading in Secondary School	3.0
CUIN 625	The American Public Education	3.0
BIOL 700	Environmental Biology	3.0
BIOL 749	Recent Advances in Cell Biology	3.0
CUIN 619	Learning Theories	3.0
BIOL 635	Methods in Secondary Science Teaching	3.0
BIOL 703	Teaching Experimental Biology	3.0

Benchmark - Student must pass PRAXIS II and be licensed, take the GRE or MAT before continuing to Phase II, and complete the Teaching Portfolio.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
BIOL 711	Research and Inquiry in Biology Education	3.0



CUIN 728	Education Technology	3.0
CUIN 729	Education Diversity	3.0
BIOL 665	Evolution	3.0
BIOL 735	Advanced Methods of Teaching Biology	3.0
CUIN 7w8	Comprehensive Examination	0.0

Exit Requirements - At conclusion, students must take an oral and written Comprehensive Examination and complete a Master's Comprehensive Portfolio or complete the Master's Action Research Project.

Notes: **MAT - Birth - Kindergarten / Child Development Currently being developed.**

MAT - Business Education

Entrance Requirements - Prerequisites -

Phase I (Initial Licensure Coursework) 21 hours

Course	Title	Credit Hours
BUED 675	Instructional Methods in Business Education	3.0
BUED 682	Administration and Supervision of Business Education Programs	3.0
BUED 624	E-Commerce Design and Implementation	3.0
BUED 699	Internship in Business Teaching Education	3.0
CUIN 619	Learning Theories	3.0
CUIN 624	Teaching Reading in Secondary Schools	3.0
CUIN 625	Theory of American Public Education	3.0

Benchmark - Grade of "B" or better in each course, overall GPA of no less than 3.0, passing PRAXIS II score (Business Education) and recommendation for "A" licensure.

Phase II (Advanced Studies Coursework) 18 hours

Course	Title	Credit Hours
CUIN 711	Research Design and Methodologies	3.0
BUED 799	Thesis	3.0
CUIN 720	Curriculum Development	3.0
CUIN 729	Diversity Issues in K-12 Schools	3.0
BAUD	BAUD Electives (6 hours from BAUD 713, 716, 718, 719, and 732)	6.0

Exit Requirements - Grade of "B" or better in each course, with overall GPA of no less than 3.0, satisfactory completion of BUED 799, and recommendation for "M" Licensure. Notes: Some candidates may choose to complete only Phase I of the M.A.T. program, which is the licensure phase. Successful completion of this phase will result in recommendation for the initial "A" license. MAT - Chemistry Entrance Requirements - Minimum 2.5 GPA Prerequisites - 11 or more hours as needed

- One year of physical chemistry Organic Chemistry II General Biochemistry
- Qualitative and Quantitative Analysis
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Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
CHEM 611	Advanced Inorganic	3.0
CHEM 621	Intermediate Organic Chemistry	3.0
CHEM 643	Introduction to Quantum Mechanics	3.0
CHEM 651	Advanced Biochemistry	3.0
CHEM 603* / CUIN 608	Clinical Application Instruction Internship	6.0
CUIN 624	Teaching Reading in the Secondary School	3.0
CUIN 619	Learning Theories	3.0

* - Course to be developed. Benchmark - Minimum 3.0 GPA, Pass PRAXIS II, teach successfully for a minimum of one year or complete 12 semester hours of student teaching. Students must take the GRE to advance further.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CHEM 703	Master Project Research - or -	3.0
CUIN 711	Research and Inquiry	3.0
CUIN 729	Diversity	3.0
CUIN 728	Technology	3.0
CUIN 721	Advanced Methods	3.0
CHEM 732	Environmental Chemistry	3.0
CUIN 788	Comprehensive Exam	0.0

Exit Requirements - Notes: **MAT - Elementary Education**

Entrance Requirements - Entrance Requirements include a minimum 2.5 GPA in undergraduate coursework or passing PRAXIS I scores and completion of prerequisite competencies. Bachelor degree from an Accredited College / University.

Prerequisites -

Course	Title	Credit Hours
SPED 661	Psychology of the Exceptional Child	3.0
CUIN 611 or CUIN 617	Computers in Education -or- Technology Competency	3.0
Phase I (Initial Licensure Coursework) 24 hours		
Course	Title	Credit Hours
ELED 601	Theory and Techniques of Planning and Instruction	3.0
ELED 602	Language Arts Through Children's Literature	3.0
ELED 603	Elementary Curriculum: Social Studies / Science / Health	3.0
ELED 604	Mathematics Curriculum and Assessment	3.0
ELED 605	Reading in the Elementary Classroom	3.0
ELED 607	Teaching Through Multiple Intelligences	3.0
ELED 608 *	Clinical Application of Instruction	6.0

* ELED 608 requires a ten (10) week / full day internship assigned in an elementary classroom setting. Benchmark - CUIN 404 PRAXIS Review, Minimum 3.0 GPA, Pass PRAXIS II and be licensed. Candidates must take the GRE and pass an application approval process to advance further in the MAT Phase II.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 711	Research and Inquiry	3.0
CUIN 729	Diversity Issues in K-12 Schools	3.0
ELED 729	School, Community, and Family Collaboration	3.0
ELED 714	Standards and Accountability	3.0
CUIN 728	Technology in K-12 Classrooms	3.0
ELED 789	Product of Learning	0.0
ELED 788	Comprehensive Examination	0.0

Exit Requirements - At conclusion, students must take an oral and written comprehensive examination and complete a Master's Comprehensive Portfolio (similar to content for National Boards). Notes: MAT - English Education Entrance Requirements - GPA of at least 2.5 or passing scores on Praxis I. Prerequisites - Computers in Education

Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
ENGL 652 / ENGL 660	African-American Drama / Poetry	3.0
ENGL 626	Children's Literature	3.0
ENGL 627	Adolescent Literature	3.0
ENGL 700	Course to be Developed	3.0
ENGL 721	Major American Literature	3.0
ENGL 755	Contemporary Practices in Grammar and Rhetoric	3.0
ELED 608	Clinical Application	6.0

Benchmark - Pass PRAXIS II and be licensed, must be employed as a teacher for a minimum of one year before continuing in Phase II or complete 12 semester hours of student teaching, GRE scores before continuing Phase II.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 619	Learning Theory	3.0
ENGL 653	Teaching English as a Second Language	3.0
CUIN 711	Research and Inquiry	3.0
CUIN 728	Technology	3.0
CUIN 729	Diversity	3.0
CUIN 788	Comprehensive Examination	0.0
ENGL 788	Comprehensive Examination	0.0

Exit Requirements - Notes:

MAT - Family and Consumer Sciences Currently being developed.

MAT - History Education Entrance Requirements - Minimum 2.5 GPA Prerequisites -

Phase I (Initial Licensure Coursework) 27 hours

Course	Title	Credit Hours
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HIST 735	Historiography	3.0
HIST 730	Seminar in History	3.0
HIST *	United States History	3.0
HIST *	European History	3.0
HIST *	Global or Minorities	3.0
HIST 699	Methods and Internship	6.0
CUIN 619	Learning Theories	3.0
CUIN 624	Teaching Reading in the Secondary School	3.0

* Courses must be at the 600 level or above Benchmark - Must pass PRAXIS II and be licensed at the initial level before advancing to Phase II of the program, must pass Departmental Comprehensive Written Examination and must have taken GRE.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 729	Diversity Issues in K-12 Public Schools	3.0
CUIN 711	Methods and Techniques of Research	3.0
CUIN 728	Integrating Technology into K-12 Curriculum	3.0
CUIN 788	Comprehensive Examination	0.0
HIST 740	History, Social Science, and Contemporary World Problems	-OR- 3.0
HIST 750	Thesis in History	3.0

Exit Requirements - Notes: ALL students, regardless of undergraduate major, MUST have completed, or completed prior to admission to Phase II of the program ALL of the following courses or their equivalents: World Civilizations I & II (HIST 100 / 101), US History I & II (HIST 204 / 205) The Nature, Study and Writing of History (HIST 250), Early Modern Europe (HIST 408) and Modern Europe Since 1815 (HIST 409). These courses must also be completed prior to taking any 600 or 700 level course in Phase I.

MAT - Human Performance and Leisure Study

Entrance Requirements - Entrance requirements include an undergraduate degree from an accredited four year institution of higher education with a minimum GPA of 2.5 or pass PRAXIS I and completion of prerequisites.

Prerequisites - 4 or more hours as needed

Course	Title	Credit Hours
HPED 445	Kinesiology	3.0
BIOL 361	Human Anatomy and Physiology	4.0

Phase I (Initial Licensure Coursework) 27 hours

Course	Title	Credit Hours
HPED 610	Health, Safety, and Liability	3.0
HPED 611	Understanding Human Motor Development	3.0
HPED 612	Movement Forms and Motor Learning	3.0
HPED 613	Philosophical Foundations of Pedagogy in Physical Education	3.0
HPED 615	PETE Observation and Internship	3.0
HPED 731	Exercise Physiology	3.0
CUIN 619	Learning Theories	3.0
CUIN 624	Teaching Reading in a Secondary School	3.0
HPED 615	Advanced Student Internship	6.0

Benchmark - Minimum GPA of 3.0, Pass PRAXIS II, and Initial Teaching Certificate. Candidates must take the GRE or the MAT and receive an application approval to advance further in the Master of Arts in Teaching Phase II.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 711	Methods of Research and Inquiry	3.0
CUIN 728	Integrating Technology into the K-12 Curriculum	3.0
CUIN 729	Diversity Issues in K-12 Schools	3.0
HPED 788	Comprehensive Examination	0.0
HPED 798	Research Seminar	3.0

Exit Requirements - At the final stage of coursework students must take and pass a comprehensive examination and complete the Master's Research Project prior to graduation.

Notes: **MAT - Math Education**

Entrance Requirements - Minimum GPA of 2.5

Prerequisites -

Course	Title	Credit Hours
MATH 132	Calc II	3.0
MATH 224	Intro. to Prob. and Statistics	3.0

MATH 450 Linear Algebra 3.0
Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
MATH 600	Intro. to Modern Mathematics for Secondary School Teachers	3.0
MATH 601	Technology and Applications in Secondary School Mathematics	3.0
MATH 602	Modern Algebra	3.0
MATH 604	Modern Geometry for Secondary School Teachers	3.0
MATH 619	Learning Theories	3.0
CUIN 624	Reading in the Content Area	3.0
MATH 713	Internship	6.0

Benchmark - 3.0 GPA, Pass PRAXIS II and be licensed, teach successfully for a minimum of one year and submit GRE scores before continuing to Phase II.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
MATH 608	Methods of Applied Statistics	3.0
MATH 709	Discrete Mathematics	3.0
CUIN 711	Research and Inquiry	3.0
CUIN 721	Advanced Methods	3.0
CUIN 786	Assessment and Evaluation	3.0
CUIN 788	Comprehensive Examination	0.0

Exit Requirements - Take a written comprehensive exam in Mathematics and submit a portfolio similar to the National Board's Portfolio or submit a thesis. Notes: MAT - Special Education

Entrance Requirements - A minimum 2.5 GPA undergraduate coursework or passing PRAXIS I scores and completion of prerequisite competencies.

Prerequisites - 9 or more hours as needed

Course	Title	Credit Hours
SPED 661	Psychology of the Exceptional Child	3.0
CUIN 611 or CUIN 617	Computers in Education -or- Technology Competency	3.0
CUIN 619	Learning Theories	3.0

Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
ELED 605	Reading in the Elementary Classroom	3.0
ELED 604	Math Curriculum and Assessment	3.0
ELED 607	Teaching Through Multiple Intelligences	3.0
SPED 667	Specific Learning Disabilities (Internship required)	3.0
SPED 760	Teaching Students with Learning and Behavior Problems	3.0
SPED 748	Diagnostic Assessment and IEP Development	3.0
SPED 763	Classroom and Behavior Management in Special Education	3.0
SPED 764	Methods and Curriculum Programming for Children and Youth with Mild/Moderate Disabilities (Internship Required)	3.0

Benchmark - Minimum 3.0 GPA, Pass PRAXIS II and be licensed. Candidates must take the GRE and pass an application approval process to advance further in the MAT Phase II.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 711	Research and Inquiry	3.0
CUIN 729	Diversity Issues in K-12 Schools	3.0
CUIN 771	Advanced Methods and Internship in Learning Disabilities (Prerequisite: SPED 760)	3.0
SPED 765	Collaboration and Consultation in Education	3.0
READ 731	Assessment and Intervention of the Literacy Needs of Struggling Readers (Prerequisites: SPED 764 and ELED 605)	3.0
SPED 789	Comprehensive Action Research Project or Portfolio Capstone	0.0
SPED 788	Comprehensive Examination	0.0

Exit Requirements - At conclusion, students must take an oral and written comprehensive examination and complete a Master's Comprehensive Portfolio (similar to content for National Boards) or complete the Master's Action Research Project.

Notes:

MAT - Technology Education (9-12) / Trade and Industrial Education

Technology Education

Entrance Requirements -
Prerequisites -

Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
CUIN 619	Learning Theories	3.0
CUIN 624	Teaching Reading in the Secondary School	3.0
	CHOOSE ONE OF THE FOLLOWING FOUR (4) COURSES	
TECH 619	Construction Systems	3.0
TECH 620	Manufacturing Systems	3.0
TECH 621	Communication Systems	3.0
TECH 622	Transportation Systems	3.0
TECH 662	Technological Education Course Construction	3.0
TECH 666	Technological Education Teaching Methods and Internship	3.0
TECH 669	Safety in the Instructional Environment of Technological Education	3.0
TECH 717 / TECH 718	Special Problems I or II (starts portfolio development)	3.0

Benchmark - Pass Praxis II (Technology Education), qualify for a Class "A" Teaching License, Maintain a 3.0 GPA, pass the Products of Teaching Portfolio Assessment, and submit GRE scores.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 721	Advanced Methods and Internship	3.0
CUIN 729	Diversity in Public Education	3.0
TECH 762	Evaluation of Technological Education Programs	3.0
TECH 764	Administration and Supervision of Technological Education	3.0
TECH 768	Technological Seminar (conducting the research proposal)	3.0
TECH 788	Comprehensive Final Exam	0.0

Exit Requirements - Pass the Products of Teaching Portfolio and maintain a GPA of 3.0 or better.
Notes:

Trade and Industrial Education

Entrance Requirements -
Prerequisites -

Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
CUIN 619	Learning Theories	3.0
CUIN 624	Teaching Reading in the Secondary School	3.0
	CHOOSE ONE OF THE FOLLOWING FOUR (4) COURSES	
TECH 619	Construction Systems	3.0
TECH 620	Manufacturing Systems	3.0
TECH 621	Communication Systems	3.0
TECH 622	Transportation Systems	3.0
TECH 662	Technological Education Course Construction	3.0
TECH 666	Technological Education Teaching Methods and Internship	3.0
TECH 669	Safety in the Instructional Environment of Technological Education	3.0
TECH 717 / TECH 718	Special Problems I or II (starts portfolio development)	3.0

Benchmark - Pass Praxis II (Technology Education), qualify for a Class "A" Teaching License, Maintain a 3.0 GPA, pass the Products of Teaching Portfolio Assessment, and submit GRE scores.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 721	Advanced Methods and Internship	3.0
CUIN 729	Diversity in Public Education	3.0
TECH 762	Evaluation of Technological Education Programs	3.0
TECH 764	Administration and Supervision of Technological Education	3.0
TECH 768	Technological Seminar (conducting the research proposal)	3.0
TECH 788	Comprehensive Final Exam	0.0

Exit Requirements - Pass the Products of Teaching Portfolio and maintain a GPA of 3.0 or better.

Notes: Teaching Majors may have to conduct up to 600 hours of industry-based internship, consult with the advisor.

Training and Development for Industry

Entrance Requirements -
Prerequisites -
Phase I (Initial Licensure Coursework) 24 hours

Course	Title	Credit Hours
CUIN 619	Learning Theories	3.0
CUIN 624	Teaching Reading in the Secondary School	3.0
CHOOSE ONE OF THE FOLLOWING FOUR (4) COURSES		
TECH 619	Construction Systems	3.0
TECH 620	Manufacturing Systems	3.0
TECH 621	Communication Systems	3.0
TECH 622	Transportation Systems	3.0
TECH 662	Technological Education Course Construction	3.0
TECH 669	Safety in the Instructional Environment of Technological Education	3.0
TECH 670	Introduction to Workplace Training and Development	3.0
TECH 671	Methods and Techniques of Workplace Training and Development	3.0
TECH 717 / TECH 718	Special Problems I or II (starts portfolio development)	3.0
TECH 770	Systematic Design of Training and Development for Industry	3.0

Benchmark - Maintain a 3.0 GPA or better, pass the Products of Teaching Portfolio Assessment, and Submit GRE scores.

Phase II (Advanced Studies Coursework) 15 hours

Course	Title	Credit Hours
CUIN 729	Diversity Issues in Public Education	3.0
TECH 762	Evaluation of Technological Evaluation Programs	3.0
TECH 764	Administration and Supervision of Technological Programs	3.0
TECH 767	Research and Literature in Technological Education (preparing a research proposal)	3.0
TECH 768	Technological Seminar (conducting the research proposal)	3.0
TECH 788	Comprehensive Final Examination	0.0

Exit Requirements - Pass the Products of Teaching Portfolio Assessment and maintain a GPA of 3.0 or better.
Notes:

Contact

For additional information, please contact the person listed for your content area.

MAT - Biology Education

Dr. Rita Hagevik
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MAT - Birth - Kindergarten / Child Development

Currently under Development

MAT - Business Education

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MAT - Chemistry Education

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MAT - Elementary Education

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MAT - English Education

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MAT - Family and Consumer Sciences

Currently under Development

MAT - History Education

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MAT - Human Performance and Leisure Study

Dr. Gloria Palma
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MAT - Math Education

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MAT - Special Education

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