

MASTER OF ARTS IN TEACHING

The Master of Arts in Teaching is designed for those candidates who desire to become effective classroom teachers. This program offers graduate students instruction in content and pedagogy that prepares them for successful first-year teaching.

All students study instructional practices that are based on evidence provided by educational research and the study of best practice. In addition, an emphasis is placed on the study of diversity in the United States and implications of that diversity for educational practice.

MAT students select an endorsement area from one of the following:

VISUAL ARTS	PK - 12
BIOLOGY	6 - 12
CHEMISTRY	6 - 12
COMPUTER SCIENCE	6 - 12
ELEMENTARY	PK - 6
ENGLISH	6 - 12
ENGLISH AS A SECOND LANGUAGE	PK - 12
FRENCH	PK - 12
HISTORY & SOCIAL SCIENCE	6 - 12
MATHEMATICS	6 - 12
MUSIC (CHORAL OR INSTRUMENTAL) FIVE-YEAR PROGRAM ONLY	PK - 12
PHYSICS	6 - 12
SPANISH	PK - 12

Upon completion of the program, students are recommended for licensure through the Virginia Department of Education to teach in the Commonwealth of Virginia. Students may enroll on a part-time or a full-time basis.

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Master of Arts in Teaching

The Master of Arts in Teaching (MAT) is a practitioner-oriented degree designed to translate theory into effective instructional practice. The curriculum is based on recognized needs for teacher education as identified by bodies such as the National Board of Professional Teaching Standards and The Holmes Group. The mission of the CNU MAT Teacher Preparation Program is to prepare highly qualified teachers who are licensed to teach in the Commonwealth of Virginia and in reciprocal states throughout the United States.

The Teacher Preparation Program Curriculum

The Teacher Preparation Program curriculum includes education and content courses that provide opportunities for students to learn subject knowledge and teaching methods appropriate to the endorsement area. A student teaching experience, with a work sample project, serves as the culminating event. The Teacher Preparation Program offers three curriculum options:

Master of Arts in Teaching with Licensure

Those who have obtained a baccalaureate degree and desire to enroll in the Master of Arts in Teaching with Licensure program enter in a degree-seeking status. The curricula for the endorsement areas are shown on pages titled *Course Plan for MAT with Licensure, Already Degreed*.

Initial Licensure

Those who have obtained a baccalaureate degree and desire to seek a Commonwealth of Virginia license enter in a non-degree status. The curricula for the endorsement areas are shown on pages titled *Course Plan for Initial Licensure, Already Degreed*.

Five-Year Combined Bachelor's Degree and Master of Arts in Teaching Degree

Undergraduate CNU students may apply in the spring of their junior year to the five-year MAT program. The curricula for the endorsement areas are shown on pages titled *Course Plan for MAT Five-Year Program with Licensure*.

Admission Requirements

Master of Arts in Teaching with Licensure

1. A baccalaureate degree from a regionally accredited college or university with a minimum grade point average (GPA) of 3.00 on a 4.00 scale;
2. An official transcript from the baccalaureate institution with the degree posted, and official transcripts for all graduate work taken at other institutions;
3. Three letters of recommendation. These must be from professional educators who have observed the applicant's teaching or from professors who can attest that the applicant is likely to be able to be successful in graduate level academic work;
4. PRAXIS I test results that show a minimum composite score of 532 from the Reading, Writing, and Mathematics subtests;
5. Two essays, demonstrating competence in written communication and dispositions for teaching. The responses should be typed and double spaced. The suggested length for each essay is 200 words. The essays are a critical component of the application. An inadequate essay may result in denial of admission, request for an interview, or remediation.
6. Completion of all prerequisites, or written plan for completion of all prerequisites, with no more than two outstanding, prior to beginning graduate study at CNU.
7. Resume
8. Certificate of Release or Discharge from Active Duty (DD 214), if applicable

Initial Licensure

1. A baccalaureate degree from a regionally accredited college or university with a minimum grade point average of 2.80 on a 4.00 scale;
2. An official transcript from the baccalaureate institution with the degree posted, and official transcripts for all graduate work taken at other institutions;
3. Three letters of recommendation. These must be from professional educators who have observed the applicant's teaching or from professors who can attest that the applicant is likely to be able to be successful in graduate-level academic work;
4. PRAXIS I test results that show a minimum composite score of 532 from the Reading, Writing, and Mathematics subtests;

5. Two essays, demonstrating competence in written communication and dispositions for teaching. The responses should be typed and double spaced. The suggested length for each essay is 200 words. The essays are a critical component of the application. An inadequate essay may result in denial of admission, request for an interview, or remediation.
6. Completion of all prerequisites, or written plan for completion of all prerequisites, with no more than two outstanding, prior to beginning graduate study at CNU.
7. Resume
8. Certificate of Release or Discharge from Active Duty (DD 214), if applicable

Five-Year Combined Bachelor's Degree and Master of Arts in Teaching Degree

See page 42 or the Five-Year MAT Program admission requirements.

Teachers Taking Courses for Re-licensure or Professional Development

Any regular or provisionally licensed Virginia teacher who desires to enroll in a graduate course for re-licensure or continued professional development may do so in a graduate non-degree status, if they:

1. Hold a baccalaureate degree from a regionally accredited college or university with a minimum grade point average of 3.00 on a 4.00 scale;
2. Provide a copy of the official transcript from the baccalaureate institution with the degree posted.
3. Apply and submit documents by the published application deadline.

NOTE: Registration for graduate courses is on a space-available basis and is limited to 12 hours.

Non-degree Students Not Enrolled in a Program

Individual courses in the curriculum may be taken by students not pursuing an advanced degree at the University by entering as a non-degree student, if they:

1. Hold a baccalaureate degree from a regionally accredited college or university with a minimum grade point average of 3.00 on a 4.00 scale;
2. Provide an official transcript from the baccalaureate institution with the degree posted.
3. A limit of 12 graduate hours may be taken in this status.

Changing from Non-degree Status to Degree-seeking Status

A non-degree student may apply to change to degree-seeking status if he or she has completed 12 or more hours of MAT graduate courses with a cumulative 3.5 GPA or higher. To apply, submit the **Request for Change to Degree-seeking Status** form to Graduate Admissions along with the documentation listed in **Admissions Requirements-Master of Arts in Teaching with Licensure** shown on page 40.

Goals of the Master of Arts in Teaching Preparation Program

Students who complete the Teacher Preparation Program at Christopher Newport University will demonstrate competence in these areas:

1. Planning and preparing for instruction based on knowledge of content, resources and students;
2. Creating a safe, orderly and nurturing environment that creates high expectations for all while recognizing and respecting diversity;
3. Delivering and assessing instruction to meet state-mandated and district objectives, adjusting methods as needed to engage and teach every child;
4. Professional responsibilities of dress, collegial behaviors, engagement with families, administrative duties, and self-directed growth.

Program Completion Requirements

The student completing the Teacher Preparation Program with recommendation for state licensure must accomplish all of the following:

- 3.0 GPA in graduate coursework with no more than two grades of C on the graduate transcript;
- Those students in the five-year program must earn a minimum of 30 hours while in graduate status;
- Passing scores on the appropriate PRAXIS II exam and other state-mandated examinations;
- An acceptable work sample evaluated by a University supervisor;
- Completion of all courses required for state licensure.

NOTE: Program completion will result in a recommendation for Virginia state licensure for teaching. The license is conferred by the Virginia Department of Education, and the commission of a felony, or a misdemeanor involving children and/or drugs, may result in the denial of issuance of the license. Questions concerning this should be directed to the Director of Teacher Preparation, Dr. Marsha Sprague at msprague@cnu.edu or (757) 594-7388

Graduate Assistantships

Graduate assistants are employed to perform research and/or administrative activities as directed by graduate faculty within the department. The position requires a weekly time commitment and is awarded on a competitive basis. To qualify, a student must be a degree-seeking student with no limits or provisions, and be enrolled in 6 to 9 graduate credit hours in the semester of the award. Refer to page 35 for more information.

Five-Year Master of Arts in Teaching with Licensure Program

This five-year program leads to both a baccalaureate degree and a Master of Arts in Teaching. At the end of four years of study a student earns a bachelor's degree. Based on the endorsement area chosen, the student enrolls in courses to teach at the elementary or secondary level. In the spring semester of the fifth year, the student is involved in a 3-week full-time teaching internship in the public schools, and receives supervision from knowledgeable teaching professionals. Upon completion of the program, a student earns a Master of Arts in Teaching degree and a license to teach in the Commonwealth of Virginia. This master's degree program is for those students who wish to become successful and effective first-year teachers.

Admission and Program Requirements

Admission

Criteria for student admission into a five-year program:

- a) Undergraduate cumulative GPA of 3.0 or higher.
- b) Submit one of the following exam scores:
 - i) A minimum SAT Score of 1100 with a minimum of 530 in the verbal and quantitative sections (must be less than five years old); **OR**
 - ii) ACT Score of a composite score of 24, with the ACT math score no less than 22, and an English plus Reading score no less than 46; **OR**
 - iii) Praxis I test results that show a minimum composite score of 532 from the Reading, Writing, and Mathematics subtests.
- c) Two letters of recommendation. One must be from a faculty member in the major who has taught the student in a major course.
- d) Two essays, demonstrating competence in written communication and dispositions for teaching. The responses should be typed and double spaced. The suggested length for each essay is 200 words. The essays are a critical component of the application. An inadequate essay may result in denial of admission, request for an interview, or remediation.
- e) Completion of all prerequisites, or written plan for completion of all prerequisites, with no more than two outstanding, prior to beginning graduate study at CNU.
- f) Resume
- g) Students apply for admission to a five-year program by February 1 of the junior year. Transfer students may also apply at this time, but a decision will not be made until applicants have demonstrated at least 12 hours of earned credit at CNU with a GPA of 3.0 or higher.

Program Requirements

- a) To continue in the five-year program, a student must maintain a 3.0 GPA, and remain in good standing by earning a grade of **B-** or better in any graduate course taken while in the undergraduate status.
- b) If an undergraduate student in a five-year program earns a single grade of **F** or two grades of **C+** or lower in a graduate-level course(s), that student will not be allowed to continue in the five-year program, and the offer of admission to the graduate program will be rescinded.
- c) Upon completion of the normal requirements in his or her respective undergraduate program, a baccalaureate degree will be awarded to the student.

Graduate Course Hours

Graduate credit hours taken as a five-year MAT **undergraduate** are subject to the following requirements:

- a) A maximum of nine hours of credit will be allowed while classified as an undergraduate.
- b) All courses must be approved by the student's advisor.
- c) The student will be held to the same standards in these classes as any other graduate student.
- d) To continue to take graduate courses as an undergraduate, a student must complete each graduate course with a grade of **B-** or better.
- e) Six graduate credit hours will count toward the 120 hours required for an undergraduate degree and will not directly count toward the M.A.T. degree.

- f) Should the five-year student take nine graduate credit hours during the senior year, one three-credit graduate course will be transferred to the graduate transcript once the baccalaureate degree is earned. Only the course and credits are posted to the graduate transcript. No grade is posted for the transferred course.

Course of Study

- a) The five-year student who takes **six** graduate credit hours while in undergraduate status will enroll in nine graduate credits during the summer terms, 12 graduate credits fall semester, and nine graduate credits spring semester (see Example A below).
- b) The five-year student who takes **nine** graduate credit hours (by permission) while in undergraduate status will have three graduate credit hours moved to the graduate transcript. The student will enroll in nine graduate credits during fall and spring semesters of the senior year (see Example B below).
- c) The number of credit hours on the graduate transcript must total at least 30 overall.
- d) A student accepted into the five-year program is required to follow the course of study as shown below in order to complete the curriculum within five years.

Examples of Five-year Program Course of Study

Example A: Five-year student takes **six** graduate credit hours while in undergraduate status

Undergraduate Status

6 credits	Graduate Courses taken in senior year
<u>114 credits</u>	<u>Undergraduate Courses</u>
120 credits	Total

Graduate Status

9 credits	Summer
12 credits	Fall
<u>9 credits</u>	<u>Spring</u>
30 credits	Total for M.A.T.

Example B: Five-year student takes **nine** graduate credit hours while in undergraduate status

Undergraduate Status

9 credits	Graduate credits taken in senior year with permission (3 credits to be moved to Graduate Transcript)
<u>114 credits</u>	<u>Undergraduate Courses</u>
123 credits	Total

Graduate Status

3 credits	Graduate credits transferred from undergraduate transcript
9 credits	Summer
9 credits	Fall
<u>9 credits</u>	<u>Spring</u>
30 credits	Total for M.A.T.

Further information about this program may be found at the
 CNU Teacher Preparation web page <http://www.cnu.edu/mat/index.asp>.

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED VISUAL ARTS PK - 12

GRADUATE COURSE REQUIREMENTS

ENGL 514	Critical Reading of Children's Literature	3
FNAR 534	Theory and Practice of Art Education	3
FNAR 589	Teaching Functional Arts	3

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
FNAR 535	Integrating the Visual Arts	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
7 CREDITS	Scientific Literacy	7
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
FNAR 201	World Art in Context I	3
FNAR 202	World Art in Context II	3
FNAR 118	Design, Two Dimensional	3
FNAR 119	Design, Three Dimensional	3
FNAR 226	Crafts	3
FNAR 224	Painting I OR	3
FNAR 203	Watercolor	3
FNAR 241	Ceramics I OR	3
FNAR 251	Sculpture I OR	3
FNAR 229	Pottery	3
FNAR 128	Visual Literacy Through Computer Generated Art OR	3
FNAR 228	Computer Art II	3
FNAR 322	Figure Drawing	3
9 CREDITS	Upper-level Art History Electives	9

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE VISUAL ARTS PK - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

ENGL 514	Critical Reading of Children's Literature	3
FNAR 534	Theory and Practice of Art Education	3
FNAR 589	Teaching Functional Arts	3

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
FNAR 535	Integrating the Visual Arts	3
TCHG 543	Classroom Management and Discipline	3

FIFTH YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	(3)

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
SOCL 314/314L	Education, Culture and Society and Lab	4
FNAR 201	World Art in Context I	3
FNAR 202	World Art in Context II	3
FNAR 118	Design, Two Dimensional	3
FNAR 119	Design, Three Dimensional	3
FNAR 224	Painting I OR	3
FNAR 203	Watercolor	3
FNAR 241	Ceramics I OR	3
FNAR 251	Sculpture I OR	3
FNAR 229	Pottery	3
FNAR 128	Visual Literacy Through Computer Generated Art OR	3
FNAR 228	Computer Art II	3
FNAR 322	Figure Drawing	3
FNAR 226	Crafts	3
FNAR 252	Printmaking (<i>recommended</i>)	3
FNAR 488	Senior Seminar in Studio Art	Credit Varies
9 CREDITS	Upper Level Art History Electives	9

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED VISUAL ARTS PK - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

FNAR 534	Theory and Practice of Art Education	3
ENGL 522	Reading & Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	24
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
7 CREDITS	Scientific Literacy	7
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	3
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
FNAR 201	World Art in Context I	3
FNAR 202	World Art in Context II	3
FNAR 118	Design, Two Dimensional	3
FNAR 119	Design, Three Dimensional	3
FNAR 224	Painting I OR	3
FNAR 203	Watercolor	3
FNAR 241	Ceramics I OR	3
FNAR 251	Sculpture I OR	3
FNAR 229	Pottery	3
FNAR 128	Visual Literacy Through Computer Generated Art OR	3
FNAR 228	Computer Art II	3
FNAR 322	Figure Drawing	3
FNAR 226	Crafts	3
9 CREDITS	Upper-level Art History Electives	9

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED BIOLOGY 6 - 12

GRADUATE COURSE REQUIREMENTS

8 HOURS FROM THE FOLLOWING ELECTIVES:

ENVS 518	Biological Conversation: Theory & Practice	4
ENVS 522	Summer Field Studies	2
ENVS 530	Biogeography	3
ENVS 532/532 L	Wetlands Ecology and Lab	4
ENVS 536/536L	Terrestrial Ecology and Lab	4
ENVS 540/540L	Environmental Microbiology and Lab	4
ENVS 550	Global Change	3
ENVS 590	Topical Seminars in Environmental Science	1 - 4
ENVS 595	Advanced Topics in Environmental Science	1 - 4

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
BIOL 538	Teaching Secondary Science	4

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting: From Broadway to Boardroom	3

(Continued on next page)

Major Courses Required con't:

BIOL 211/211L	Principles of Biology I & Lab	4
BIOL 212/212L	Principles of Biology II & Lab	4
BIOL 213/213L	Principles of Biology III & Lab	4
BIOL 313	Genetics	3
BIOL 391	Junior Seminar	3
BIOL 491	Senior Seminar	1
BIOL 407/407L	General Ecology & Lab	4
BIOL ____	Fifteen additional credits above the 100-level (12 of these credits must be at 300-/400-level and have laboratory components)	15

Recommended for all secondary biology teachers:

BIOL 215 Biological Evolution

BIOL 314/314L Human Anatomy & Physiology & Lab **OR**

BIOL 420/420L Animal Physiology & Lab

Support Coursesrequired:

MATH 125 & 130 or higher	Mathematics Electives	6
CHEM 121/121L	General Chemistry I & Lab	4
CHEM 122/122L	General Chemistry II & Lab	4
CHEM 321/ 321L	Organic Chemistry I, II & Lab	4
CHEM 322/ 322L	Organic Chemistry II & Lab	4
PHYS 151/151L	Intermediate Physics & Lab	4
PHYS 152/152L	Intermediate Physics & Lab	4

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE BIOLOGY 6 - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

8 HOURS FROM THE FOLLOWING ELECTIVES:

(Select six credits; two credits of ENVS electives will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

ENVS 518	Biological Conservation: Theory & Practice	4
ENVS 522	Summer Field Studies	2
ENVS 530	Biogeography	3
ENVS 532/532L	Wetlands Ecology and Lab	4
ENVS 536/536L	Terrestrial Ecology and Lab	4
ENVS 540/540L	Environmental Microbiology and Lab	4
ENVS 550	Global Change	3
ENVS 590	Topical Seminars in Environmental Science	1 - 4
ENVS 595	Advanced Topics in Environmental Science	1 - 4

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management & Discipline	3
BIOL 538	Teaching Secondary Science	4

FIFTH YEAR - FALL

ENGL 522	Reading & Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
2 Credits	ENVS Elective from Senior Year Courses if not taken Senior Year	(2)

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teacher	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314/ 314L	Education, Culture and Society and Lab	4
CPSC 110	Introduction to Computing	3

Major Courses Required:

BIOL 211/211L	Principles of Biology I & Lab	4
BIOL 212/212L	Principles of Biology II & Lab	4
BIOL 213/213L	Principles of Biology III & Lab	4
BIOL 313	Genetics	3

(continued on the next page)

BIOL 391	Junior Seminar	3
BIOL 491	Senior Seminar	1
BIOL 407/407L	General Ecology & Lab	4
BIOL ____	Fifteen additional credits above the 100-level (12 of these credits must be at 300-/400-level and have laboratory components)	15
	Recommended for all secondary biology teachers:	
	BIOL 215 Biological Evolution	
	BIOL 314/314L Human Anatomy & Physiology & Lab OR	
	BIOL 420/420L Animal Physiology & Lab	
	Support Coursesrequired:	
MATH 125 & 130 or higher	Mathematics Electives	6
CHEM 121/121L	General Chemistry I & Lab	4
CHEM 122/122L	General Chemistry II & Lab	4
CHEM 321/ 321L	Organic Chemistry I, II & Lab	4
CHEM 322/ 322L	Organic Chemistry II & Lab	4
PHYS 151/151L	Intermediate Physics & Lab	4
PHYS 152/152L	Intermediate Physics & Lab	4

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED BIOLOGY 6 - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR: SUMMER

BIOL 538	Teaching Secondary Science	4
TCHG 516-517 m/s	Curriculum and Instruction	3
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR: FALL

PSYC 535	Exceptional Learner	3
ENGL 522	Reading and Writing in Content Areas	3

120 hours of school experience prior to internship

PROFESSIONAL YEAR: SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	25
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
CPSC 110	Introduction to Computing	3
PSYC 208	Child Development OR	
PSYC 207	Life-span Development	3
SOCL 314/314L	Education, Culture and Society & Laboratory	4
PSYC 312	Educational Psychology	3
BIOL 151/151L	General Zoology & Lab	4
BIOL 152/152L	General Botany & Lab	4
BIOL 201/201L	Molecular and Cellular Biology & Lab	4
BIOL 202/202L	Evolution and Ecology & Lab	4
BIOL 407/407L	General Ecology & Lab	4
BIOL _____	Biology Electives (12 of these credits must be at 300-/400-level and have laboratory components)	15

Support Courses:

MATH 125 & 130	Mathematics Electives	6
or higher		
CHEM 121/121L	General Chemistry I & Lab	4
CHEM 122/122L	General Chemistry II & Lab	4
PHYS 151/151L	Intermediate Physics & Lab	4
PHYS 152/152L	Intermediate Physics & Lab	4

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED CHEMISTRY 6-12

GRADUATE COURSE REQUIREMENTS

8 hours of graduate credits from CHEM 5xx Courses (except CHEM 545) 8

CHEM _____ Graduate Elective (see page 135)

CHEM _____ Graduate Elective (see page 135)

NOTE: Graduate CHEM electives must include ONE course from the following unless taken at the undergraduate level:
CHEM 543; Atmospheric Chemistry; CHEM 540; Soils and Water Chemistry; CHEM 565; Environmental Chemistry

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s Curriculum and Instruction I 2

TCHG 517 m/s Curriculum and Instruction II 1

TCHG 543 Classroom Management and Discipline 3

CHEM 538 Teaching Secondary Science 4

PROFESSIONAL YEAR - FALL

ENGL 522 Reading and Writing in Content Areas 3

PSYC 535 Exceptional Learner 3

SOCL 501 Multiculturalism, Diversity and Education **OR** 3

TCHG 550 Teaching Across Cultures

120 HOURS *Field Experience*

PROFESSIONAL - SPRING

TCHG 580 Technology for Teachers 1

TCHG 510 Teaching Internship 8

TOTAL GRADUATE COURSE HOURS 36

PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS Communication Literacy 6

6 CREDITS Mathematics Literacy 6

3 CREDITS Western Tradition 3

3 CREDITS Global/Multicultural 3

3 CREDITS Creative Expressions 3

Support Courses:

COMM 201 Public Speaking **OR** 3

THEA 230 Practical Acting: From Broadway to Boardroom 3

PSYC 207 Life-span Development **OR** 3

PSYC 208 Child Development 3

SOCL 314/314L Education, Culture and Society & Lab 4

PSYC 312 Educational Psychology 3

MATH 125 Elementary Statistics 3

MATH 140 Calculus & Analytic Geometry 4

MATH 240 Intermediate Calculus 4

CPSC 110 Introduction to Computing 3

BIOL 107 or 108 (or higher) General Biology I or II 3

PHYS 151/151L, /152/152L Intermediate Physics & Lab 8

Major Courses in Chemistry:

CHEM 121/121L, 122/122L General Chemistry I, II & Lab 8

CHEM 321/321L, 322/322L Organic Chemistry I, II & Lab 8

CHEM 341/342/342L Physical Chemistry I, II & Lab 8

CHEM 361/361L Analytical Chemistry & Lab 4

CHEM 391W WI: Investigating Chemical Literature 3

CHEM 401/401L Inorganic Chemistry & Lab 4

CHEM 445/445WL Instrumental Analysis & Lab 5

CHEM 492 POGIA - Comprehensive Review 3

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE CHEMISTRY 6 - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

8 hours of graduate credits from CHEM 5xx Courses (except CHEM 545) 8

CHEM _____ Graduate Elective (see page 135)

CHEM _____ Graduate Elective (see page 135)

NOTE: Graduate CHEM electives must include ONE course from the following unless taken at the undergraduate level:
CHEM 543; Atmospheric Chemistry; CHEM 540; Soils and Water Chemistry;
CHEM 565; Environmental Chemistry

FIFTH YEAR - SUMMER

TCHG 516 m/s Curriculum and Instruction I 2

TCHG 517 m/s Curriculum and Instruction II 1

TCHG 543 Classroom Management and Discipline 3

CHEM 538 Teaching Secondary Science 4

FIFTH YEAR - FALL

ENGL 522 Reading and Writing in Content Areas 3

PSYC 535 Exceptional Learner 3

SOCL 501 Multiculturalism, Diversity and Education **OR** 3

TCHG 550 Teaching Across Cultures

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580 Technology for Teachers 1

TCHG 510 Teaching Internship 8

TOTAL GRADUATE COURSE HOURS 36

UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

Support Courses:

PSYC 207 Life-span Development **OR** 3

PSYC 208 Child Development 3

SOCL 314 Education, Culture and Society & 3

SOCL 314L Education, Culture and Society Laboratory 1

PSYC 312 Educational Psychology 3

MATH 125 Elementary Statistics 3

MATH 140 Calculus & Analytic Geometry 4

MATH 240 Intermediate Calculus 4

CPSC 110 Introduction to Computing 3

COMM 201 Public Speaking **OR** 3

THEA 230 Practical Acting: From Broadway to Boardroom 3

BIOL 107 or 108 (or higher) General Biology I or II 3

CHEM 121/122/121L/122L General Chemistry I & II 10

PHYS 151/152/151L/152L Intermediate Physics & Laboratory 8

Major Courses in Chemistry:

CHEM 321/322/321L/322L Organic Chemistry I, II & Laboratory 10

CHEM 341/342/342L Physical Chemistry I, II & Laboratory 10

CHEM 361/361L Analytical Chemistry & Laboratory 5

CHEM 391W WI: Investigating Chemical Literature 5

CHEM 401/401L Inorganic Chemistry & Laboratory 5

CHEM 445/445WL Instrumental Analysis & Laboratory 5

CHEM 492 POGIA-Comprehensive Review 3

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED CHEMISTRY 6 - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

CHEM 538	Teaching Secondary Science	4
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	25
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3

Support Courses:

PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
MATH 125	Elementary Statistics	3
MATH 140	Calculus & Analytic Geometry	4
MATH 240	Intermediate Calculus	4
CPSC 110	Introduction to Computing	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting: From Broadway to Boardroom	3
BIOL 107 or 108 (or higher)	General Biology I or II	3
CHEM 121/121L, 122/122L	General Chemistry I, II & Lab	10
PHYS 151/151L, 152/152L	Intermediate Physics & Lab	8

Major Courses in Chemistry:

CHEM 321/321L, 322/322L	Organic Chemistry I, II & Lab	10
CHEM 341, 342/342L	Physical Chemistry I, II & Lab	10
CHEM 361/361L	Analytical Chemistry & Lab	5
CHEM 391W	WI: Investigating Chemical Literature	5
CHEM 401/401L	Inorganic Chemistry & Lab	5
CHEM 445/445WL	Instrumental Analysis & Lab	5

Choose from one of the following:

CHEM 443	Atmospheric Chemistry	3
CHEM 440	Soils and Water Chemistry	3
CHEM 465	Environmental Chemistry	3

Support Courses in Computer Science:

MATH 240	Intermediate Calculus	4
ENGR 213	Discrete Structures for Computer Applications	3
CPEN 214	Digital Logic Design	3
PHYS 341	Design and Analysis of Experiments	3

Major Courses in Computer Science:

CPSC 360	Programming Language Concepts	3
CPSC 270	Data and File Structures	3
CPSC 410	Operating Systems	3
CPSC 420	Algorithms	3
CPSC 330	Computer Organization OR	3
CPEN 414	Computer Architecture	3

Select three from:

CPSC 425, 427, 428, 440, 450, 460, 470, 471, 480, 485, 495 Courses 9

MATH 380 Numerical Analysis I 3

PHYS 421, 441 System Design Lab, Modeling & Simulation 6
with courses number 495 and above used no more than twice

PCSE 499W Independent Study in Applied Physics & Computer Science Credit Varies

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE COMPUTER SCIENCE 6-12

GRADUATE COURSE REQUIREMENTS

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

SENIOR YEAR

CPSC 501	Software System Design and Implementation	3
CPSC ____	Graduate Elective (see page 99)	3
CPSC ____	Graduate Elective (see page 99)	3

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
CPSC 502	Communications I	3

FIFTH YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	3 (3)

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3

Core Courses:

CPEN 371W	Computer Ethics	2
CPSC 125, 150, 150L-250, 250L	Computer Science Courses	11
MATH 140	Calculus and Analytic Geometry	4
PHYS 151, 151L-152, 152L	Intermediate Physics & Lab OR	8
PHYS 201, 201L-202, 202L	General Physics & Lab	
PHYS 340	Methods of Theoretical Physics OR	3
MATH 235	Applied Matrix Techniques OR	3
MATH 260	Linear Algebra	3

(Continued on next)

Support Courses in Computer Science:

MATH 240	Intermediate Calculus	4
ENGR 213	Discrete Structures for Computer Applications	3
CPEN 214	Digital Logic Design	3
PHYS 341	Design and Analysis of Experiments	3

Major Courses in Computer Science:

CPSC 360	Programming Language Concepts	3
CPSC 270	Data and File Structures	3
CPSC 410	Operating Systems	3
CPSC 420	Algorithms	3
CPSC 330	Computer Organization OR	3
CPEN 414	Computer Architecture	3

Select three from:

CPSC 425, 427, 440, 450, 460, 470, 471, 480, 485, 495 Courses 9

MATH 380 Numerical Analysis I 3

PHYS 421, 441 System Design Lab, Modeling & Simulation 6

with courses number 495 and above used no more than twice

PCSE 499W Independent Study in Applied Physics & Computer Science Credit Varies

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED COMPUTER SCIENCE 6 - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	21
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society & Lab	4
PSYC 312	Educational Psychology	3
MATH 140	Calculus & Analytic Geometry	4
MATH 240	Intermediate Calculus	4
MATH 235	Applied Matrix Techniques OR	3
MATH 260	Linear Algebra	3
MATH _____	Mathematics Elective	3
ENGR 213	Discrete Structures for Computer Applications	3
CPEN 214	Digital Logic Design	3
CPEN 371W	Computer Ethics	2
PHYS 201/ 201L	General Physics & Lab	4
PHYS 202/202L	General Physics & Lab	4
CPSC 110	Introduction to Computing	3
CPSC 270	Data and File Structures	3
CPSC 330	Computer Organization	3
CPSC 410	Operating Systems I	3
CPSC 420	Algorithms	3

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED ELEMENTARY PK - 6

GRADUATE COURSE REQUIREMENTS

ENGL 532	Language Varieties in American Schools	OR	3
ENGL 511	Advanced Strategies in TESOL		
PSYC 521	Reading Acquisition and Development		3
ENGL 514	Critical Reading of Children's Literature		3

PROFESSIONAL YEAR - SUMMER

TCHG 516e	Curriculum and Instruction I		2
TCHG 517e	Curriculum and Instruction II		1
TCHG 543	Classroom Management and Discipline		3
PSYC 535	Exceptional Learner		3

PROFESSIONAL YEAR - FALL

ENGL 521	Teaching Composition		3
MATH 570e	The Study of Mathematics		3
SOCL 501	Multiculturalism, Diversity and Education	OR	3
TCHG 550	Teaching Across Cultures		

120 HOURS Field Experience

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers		1
TCHG 510	Teaching Internship		8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

(Degree in Liberal Arts or Science required)

6 CREDITS	English	6	
6 CREDITS	History/Government	6	
	3 Credits Global/Multicultural		
	3 Credits Western Tradition		
6 CREDITS	Mathematics	6	
7 CREDITS	Science	7	
PSYC 207	Life-span Development	OR	3
PSYC 208	Child Development		3
SOCL 314	Education, Culture and Society		3
SOCL 314L	Education, Culture and Society Laboratory		1
PSYC 312	Educational Psychology		3
CPSC 110	Introduction to Computing		3
NSCI 310	Exploring Science		4
ENGL 310	Introduction to Linguistics	OR	3
ENGL 430	The Structure of English		3
GEOG 201	Introduction to Geography		3

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE ELEMENTARY PK - 6

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

ENGL 532	Language Varieties in American Schools	OR	3
ENGL 511	Advanced Strategies in TESOL		
MATH 570e	The Study of Mathematics		3
ENGL 514	Critical Reading of Children's Literature		3

FIFTH YEAR - SUMMER

ENGL 521	Teaching Composition		3
TCHG 516e	Curriculum and Instruction I		2
TCHG 517e	Curriculum and Instruction II		1
TCHG 543	Classroom Management and Discipline		3

FIFTH YEAR - FALL

PSYC 521	Reading Acquisition and Development		3
PSYC 535	Exceptional Learner		3
SOCL 501	Multiculturalism, Diversity and Education	OR	3
TCHG 550	Teaching Across Cultures		
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year		(3)

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers		1
TCHG 510	Teaching Internship		8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

CPSC 110	Introduction to Computing		3
MATH 125	Elementary Statistics		3
ENGL 123	First-Year Writing Seminar		3
ULLC 223	Second-Year Writing Seminar		3
PSYC 207	Life-span Development	OR	3
PSYC 208	Child Development		3
SOCL 314/314L	Education, Culture and Society and Lab		4
HIST 111	The Ancient & Medieval World		3
GOVT 101	Power and Politics in America		3
7 CREDITS	Two Science Courses with one Lab		7
COMM 201	Public Speaking	OR	3
THEA 230	Practical Acting		3
HIST 121	Early America to the Civil War		3
GEOG 201	Introduction to Geography		3
PSYC 312	Educational Psychology		3
ENGL 314	Children's Literature		3
NSCI 310	Exploring Science Concepts		3
MATH 109	Theoretical Foundations of Elem. School Mathematics		3
ENGL 310	Introduction to Linguistics	OR	3
ENGL 430	The Structure of English		3

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED ELEMENTARY PK - 6

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

TCHG 516e	Curriculum and Instruction I	2
TCHG 517e	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
PSYC 535	Exceptional Learner	3

PROFESSIONAL YEAR - FALL

ENGL 521	Teaching Composition	3
PSYC 521	Reading Acquisition and Development	3
MATH 570e	The Study of Mathematics	3

120 HOURS Field Experience

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	27
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

(Degree in Liberal Arts or Science Required)

6 CREDITS	English	6
6 CREDITS	History/Government	6
	3 Credits Global/Multicultural	
	3 Credits Western Tradition	
6 CREDITS	Mathematics	6
7 CREDITS	Science	7
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
NSCI 310	Exploring Science	4
ENGL 314	Children's Literature	3
ENGL 310	Introduction to Linguistics OR	3
ENGL 430	The Structure of English	3
GEOG 201	Introduction to Geography	3

**COURSE PLAN FOR MAT WITH LICENSURE
ALREADY DEGREED
ENGLISH 6 - 12**

GRADUATE COURSE REQUIREMENTS

ENGL 532	Language Varieties in American Schools	OR	3
ENGL 511	Advanced Strategies in TESOL		
ENGL 512	Reading Multicultural Literature		3
ENGL 521	Teaching Writing		3

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I		2
TCHG 517 m/s	Curriculum and Instruction II		1
TCHG 543	Classroom Management and Discipline		3
ENGL 501	Teaching Literature		3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas		3
PSYC 535	Exceptional Learner		3
SOCL 501	Multiculturalism, Diversity and Education	OR	3
TCHG 550	Teaching Across Cultures		

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers		1
TCHG 510	Teaching Internship		8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6	
6 CREDITS	Mathematics Literacy	6	
3 CREDITS	Western Tradition	3	
3 CREDITS	Global/Multicultural	3	
3 CREDITS	Creative Expressions	3	
7 CREDITS	Scientific Literacy	7	
PSYC 207	Life-span Development	OR	3
PSYC 208	Child Development		3
SOCL 314/314L	Education, Culture and Society and Lab		4
PSYC 312	Educational Psychology		3
CPSC 110	Introduction to Computing		3
ENGL 308W	Literature, Theory and Culture		3
ENGL 309	Prose Writing		3
ENGL 311	Teaching English to Speakers of Other Languages		3
ENGL 315	Adolescent Literature		3
6 CREDITS	Two (2) Courses in American Literature		6
6 CREDITS	Two (2) Courses in British Literature		6
3 CREDITS	One (1) Course in World Literature		3
ENGL 421	Shakespeare		3
ENGL 430	The Structure of English		3

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE ENGLISH 6 -12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

ENGL 512	Reading Multicultural Literature	3
ENGL 521	Teaching Writing	3
ENGL 532	Language Varieties in American Schools OR	3
ENGL 511	Advanced Strategies in TESOL	

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
ENGL 501	Teaching Literature	3

FIFTH YEAR - FALL

ENGL 522	Reading & Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	(3)

120 HOURS Field Experience

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

ENGL 123	First-Year Writing Seminar	3
ULLC 223	Second-Year Writing Seminar	3
MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
ENGL 308W	Literature, Theory, and Culture WI	3
ENGL 309W	Prose Writing	3
ENGL 311	Teaching English to Speakers of Other Languages	3
ENGL 315	Adolescent Literature	3

Continued on next page)

Choose one of the following two:

ENGL 341	American Literature to 1850	3
ENGL 342	American Literature 1850-1920	3

Choose one of the following three:

ENGL 343	American Literatures 1920-present	3
ENGL 410	Southern American Literature	3
ENGL 412	Multicultural American Literature	3

Choose one of the following two:

ENGL 370	Early British Literature	3
ENGL 372	British Literature: 17th & 18th Century	3

Choose one of the following two:

ENGL 374	British Literature: 19th Century	3
ENGL 376	British Literature: 20th Century to Present	3

Choose one of the following four:

ENGL 321	Literature of the Ancient World	3
ENGL 322	Pre-Modern World Literature	3
ENGL 325	Contemporary World Literature	3
ENGL 425	Cultural Studies in World Literature	3

Other required support courses:

ENGL 421	Shakespeare	3
ENGL 430	The Structure of English	3
ENGL 490W	Senior Seminar	3

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED ENGLISH 6 - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

ENGL 501	Teaching Literature (elective option one--must select one elective)	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 521	Teaching Writing (elective option two--must select one elective)	
ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	24
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
ENGL 308W	Literature, Theory, and Culture WI	3
ENGL 309	Prose Writing	3
ENGL 311	Language and Teaching	3
ENGL 315	Adolescent Literature	3
6 CREDITS	Two (2) Courses in American Literature	6
6 CREDITS	Two (2) Courses in British Literature	6
3 CREDITS	One (1) Course in World Literature	3
ENGL 421	Shakespeare	3
ENGL 430	The Structure of English	3

**COURSE PLAN FOR MAT WITH LICENSURE
ALREADY DEGREED
ENGLISH AS A SECOND LANGUAGE PK-12**

GRADUATE COURSE REQUIREMENTS

PSYC 521	Reading Acquisition & Development	3
ENGL 521	Teaching Writing	3
PSYC 535	Exceptional Learner	3

PROFESSIONAL YEAR - SUMMER

ENGL 511	Advanced Strategies in TESOL	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
ENGL 532	Language Varieties in American Schools OR	
TCHG 550	Teaching Across Cultures	3
SOCL 501	Multiculturalism, Diversity and Education	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

Major: Any liberal arts major (English, Psychology recommended) with general education courses in English, Mathematics, Social Studies, Science

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
CPSC 110	Introduction to Computing	3
ENGL 310	Introduction to Linguistics	3
ENGL 311	Teaching English to Speakers of Other Languages (TESOL)	3
ENGL 330	Language and Culture OR	3
ENGL 430	The Structure of English	3
MLAN 308	Cross-cultural Understanding	3

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE ENGLISH AS A SECOND LANGUAGE PK - 12

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year)

PSYC 521	Reading Acquisition & Development	3
ENGL 521	Teaching Writing	3
PSYC 535	Exceptional Learner	3

PROFESSIONAL YEAR - SUMMER

ENGL 511	Advanced Strategies in TESOL	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
ENGL 532	Language Varieties in American Schools OR	
TCHG 550	Teaching Across Cultures	3
SOCL 501	Multiculturalism, Diversity and Education	3

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

ENGL 123	First-year Writing Seminar	3
ULLC 223	Second-year Writing Seminar	3
MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
CPSC 110	Introduction to Computing	3
ENGL 310	Introduction to Linguistics	3
ENGL 311	Teaching English to Speakers of Other Languages (TESOL)	3
ENGL 330	Language and Culture OR	3
ENGL 430	The Structure of English	3
MLAN 308	Cross-cultural Understanding	3
LANG	LANG through 202 (Spanish recommended)	

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED ENGLISH AS A SECOND LANGUAGE PK-12

PROFESSIONAL YEAR - SUMMER

ENGL 511	Advanced Strategies in TESOL	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 521	Reading Acquisition and Development	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	27
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

Major: Any liberal arts major (English, Psychology recommended) with general education courses in English, Mathematics, Social Studies, Science

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
CPSC 110	Introduction to Computing	3
ENGL 310	Introduction to Linguistics	3
ENGL 311	Teaching English to Speakers of Other Languages (TESOL)	3
ENGL 330	Language and Culture OR	3
ENGL 430	The Structure of English	3
MLAN 308	Cross-cultural Understanding	3
LANG	LANG through 202 (Spanish recommended)	

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREEED FRENCH PK - 12

GRADUATE COURSE REQUIREMENTS

ENGL 512	Reading Multicultural Literature	3
MLAN 570	Teaching Modern Language	3
FREN 503	Advanced Writing and Stylistics	3

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
FREN 538	Research in Foreign Language Teaching	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3

Modern Languages Core:

Choose one of the following:

MLAN 203	Into the Woods: The European Folktale Tradition	3
MLAN 205	The Novel in English Translation	3
MLAN 206	The Drama in English Translation	3
MLAN 207	International Cinema	3

(Continued on next page)

Required:

MLAN 308	Cross-Cultural Awareness	3
MLAN 310	Texts in Context	3
MLAN 490	Capstone Course in Modern Languages	3

Major and Elective Studies:**Choose two of the following:**

FREN 301	Grammar and Composition	3
FREN 303W	Process Writing	3
FREN 305	French for Professionals	

Choose one of the following:

FREN 302	Practical Conversation	3
FREN 304	Conversational Approaches to Society and Institutions	3
FREN 308	Conversation via Cinema	3
FREN 310	Practical French Phonetics	3

Choose two of the following:

FREN 351	Studies in the Early Modern Era	3
FREN 352	Studies in the Modern Era	3

Choose one of the following:

FREN 313	French Popular Culture	3
FREN 353	Francophone Literature and Culture	3
FREN 354	French Women Writers	3
FREN 358	History of French Cinema	3

Select:

6 CREDITS	Select two French courses at the 300 level or higher that have not been used to satisfy one the above categories	
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Students interested in pursuing an MAT in French or other graduate study are strongly advised to take an additional foreign language through the 202 level.

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE FRENCH PK - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

ENGL 512	Reading Multicultural Literature	3
MLAN 570	Teaching Modern Language	3
FREN 503	Advanced Writing and Stylistics	3

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
FREN 538	Research in Foreign Language Teaching	3

FIFTH YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	(3)

120 HOURS Field Experience

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314/314L	Education, Culture and Society and Lab	4
MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
CPSC 110	Introduction to Computing	3

Modern Languages Core:

Choose one of the following:

MLAN 203	Into the Woods: The European Folktale Tradition	3
MLAN 205	The Novel in English Translation	3
MLAN 206	The Drama in English Translation	3
MLAN 207	International Cinema	3

(continued on next page)

Required:

MLAN 308	Cross-Cultural Awareness	3
MLAN 310	Texts in Context	3
MLAN 490	Capstone Course in Modern Languages	3

Major and Elective Studies:**Choose two of the following:**

FREN 301	Grammar and Composition	3
FREN 303W	Process Writing	3
FREN 305	French for Professionals	

Choose one of the following:

FREN 302	Practical Conversation	3
FREN 304	Conversational Approaches to Society and Institutions	3
FREN 308	Conversation via Cinema	3
FREN 310	Practical French Phonetics	3

Choose two of the following:

FREN 351	Studies in the Early Modern Era	3
FREN 352	Studies in the Modern Era	3

Choose one of the following:

FREN 313	French Popular Culture	3
FREN 353	Francophone Literature and Culture	3
FREN 354	French Women Writers	3
FREN 358	History of French Cinema	3

Select:

6 CREDITS	Select two French courses at the 300 level or higher that have not been used to satisfy one the above categories	
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Students interested in pursuing an MAT in French or other graduate study are strongly advised to take an additional foreign language through the 202 level.

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED FRENCH PK - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

FREN 538	Research in Foreign Language Teaching	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

MLAN 570	Teaching Modern Languages	3
ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS Field Experience

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	27
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7

PSYC 207	Life-span Development	OR	3
PSYC 208	Child Development		3
PSYC 312	Educational Psychology		3
SOCL 314/314L	Education, Culture and Society and Lab		4
MATH 125	Elementary Statistics		3
COMM 201	Public Speaking	OR	3
THEA 230	Practical Acting		3
CPSC 110	Introduction to Computing		3

Modern Languages Core:

Choose one of the following:

MLAN 203	Into the Woods: The European Folktale Tradition	3
MLAN 205	The Novel in English Translation	3
MLAN 206	The Drama in English Translation	3
MLAN 207	International Cinema	3

(continued on next page)

Required:

MLAN 308	Cross-Cultural Awareness	3
MLAN 310	Texts in Context	3
MLAN 490	Capstone Course in Modern Languages	3

Major and Elective Studies:**Choose two of the following:**

FREN 301	Grammar and Composition	3
FREN 303W	Process Writing	3
FREN 305	French for Professionals	

Choose one of the following:

FREN 302	Practical Conversation	3
FREN 304	Conversational Approaches to Society and Institutions	3
FREN 308	Conversation via Cinema	3
FREN 310	Practical French Phonetics	3

Choose two of the following:

FREN 351	Studies in the Early Modern Era	3
FREN 352	Studies in the Modern Era	3

Choose one of the following:

FREN 313	French Popular Culture	3
FREN 353	Francophone Literature and Culture	3
FREN 354	French Women Writers	3
FREN 358	History of French Cinema	3

Select:

6 CREDITS Select two French courses at the 300 level or higher
that have not been used to satisfy one the above categories

**COURSE PLAN FOR MAT WITH LICENSURE
ALREADY DEGREED
HISTORY & SOCIAL SCIENCE 6 - 12**

GRADUATE COURSE REQUIREMENTS

HIST ____	510/520/530 History	3
HIST ____	510/520/530 History	3
GOVT 570	Methods for Teaching Social Studies	3

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
HIST ____	510/520/530 History OR	3
GEOG 570	World Geography for Teachers	

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Student must have B.A./B.S. in History or Government
Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7
PSYC 207	Life-Span Development OR	3
PSYC 208	Child Development	3
SOCL 314/L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
HIST 111	The Ancient and Medieval World	3
HIST 112	The Modern World	3
HIST 121	Early America to the Civil War	3
HIST 122	Modern America: Reconstruction to Global Power	3
HIST 390W	Historical Methods and Historiography	3
HIST ____	Two 300/400-level History courses	6
ECON 201	Macroeconomics OR (201 preferred)	3
ECON 202	Microeconomics	3
GEOG 201; 202	Introduction to Geography I and II	6
GOVT 100	Political Thought and Society OR	3
GOVT 101	Power and Politics in America	3
GOVT 202	State and Local Government	3
GOVT 215	International and Comparative Politics	3
GOVT ____	Two 300/400-level Government courses	6

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE HISTORY & SOCIAL SCIENCE 6 - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

HIST ____	510/520/530 History	3
HIST ____	510/520/530 History	3
GOVT 570	Methods for Teaching Social Studies	3

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management & Discipline	3
HIST ____	510/520/530 History OR	3
GEOG 570	World Geography for Teachers	

FIFTH YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	(3)
<i>120 HOURS</i>	<i>Field Experience</i>	

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

Student must earn a B.A./B.S. in History or Government

MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-Span Development OR	3
PSYC 208	Child Development	3
SOCL 314/L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
HIST 111	The Ancient and Medieval World	3
HIST 112	The Modern World	3
HIST 121	Early America to the Civil War	3
HIST 122	Modern America: Reconstruction to Global Power	3
HIST 390W	Historical Methods and Historiography	3
HIST __ __	Two 300/400-level History courses	6
ECON 201	Macroeconomics OR (201 preferred)	3
ECON 202	Microeconomics	3
GEOG 201; 202	Introduction to Geography I and II	6
GOVT 100	Political Thought and Society OR	3
GOVT 101	Power and Politics in America	3
GOVT 202	State and Local Government	3
GOVT 215	International and Comparative Politics	3
GOVT __ __	Two 300/400-level Government courses	6

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED HISTORY & SOCIAL SCIENCE 6 - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

GOVT 570	Methods for Teaching Social Studies	3
ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	24
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Student must have B.A./B.S. in History or Government

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
6 CREDITS	Mathematics Literacy	6
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7
PSYC 207	Life-Span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	3
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
HIST 111	The Ancient and Medieval World	3
HIST 112	The Modern World	3
HIST 121	Early America to the Civil War	3
HIST 122	Modern America: Reconstruction to Global Power	3
HIST 390W	Historical Methods and Historiography	3
HIST __ __	Two 300/400-level History courses	6
ECON 201	Macroeconomics OR (201 preferred)	3
ECON 202	Microeconomics	3
GEOG 201; 202	Introduction to Geography I and II	6
GOVT 100	Political Thought and Society OR	3
GOVT 101	Power and Politics in America	3
GOVT 202	State and Local Government	3
GOVT 215	International and Comparative Politics	3
GOVT __ __	Two 300/400-level Government courses	6

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED MATHEMATICS 6 - 12

GRADUATE COURSE REQUIREMENTS

MATH 570m/s	The Study of Mathematics	3
MATH 578	Elementary Geometry from an Advanced Viewpoint	3
MATH 538	Apprenticeship in Teaching Mathematics	3

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
MATH 596	Curriculum and Assessment in Secondary Mathematics	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Scientific Literacy	7

PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
MATH 125	Elementary Statistics	3

(May be replaced by MATH 435)

MATH 140	Calculus and Analytic Geometry	4
MATH 240	Intermediate Calculus	4
MATH 250	Multivariable Calculus	3
MATH 260	Linear Algebra	3
MATH 310	Proofs and Discrete Mathematics	3
MATH 335	Applied Probability	3
MATH 360	Advanced Calculus	3
MATH 370	Abstract Algebra	3
MATH ___ ___	Two 300/400-level Mathematics courses	6
MATH ___	One 400-level Mathematics course	3
CPSC 125 <u>and</u>	Foundations of Computer Science	3
CPSC 150/150L	Computers and Programming I & Lab	4

OR

CPSC 150/150L <u>and</u>	Computers and Programming I & Lab	4
CPSC 250/250L	Computers and Programming II & Lab	4

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE MATHEMATICS 6 - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

MATH 570m/s	The Study of Mathematics	3
MATH 578	Elementary Geometry from an Advanced Viewpoint	3
MATH 538	Apprenticeship in Teaching Mathematics	3

FIFTH YEAR: SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
MATH 596	Curriculum and Assessment in Secondary Mathematics	3

FIFTH YEAR: FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	(3)

120 HOURS *Field Experience*

FIFTH YEAR: SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

ENGL 123	First-year Writing Seminar	3
ULLC 223	Second-year Writing Seminar	3
MATH 125	Elementary Statistics	3
	(May be replaced by MATH 435)	
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
MATH 140	Calculus and Analytic Geometry	4
MATH 240	Intermediate Calculus	4
MATH 250	Multivariable Calculus	3
MATH 260	Linear Algebra	3
MATH 301	Writing in Mathematics	1
MATH 310	Proofs and Discrete Mathematics	3
MATH 335	Applied Probability	3

(Continued on next page)

MATH 360	Advanced Calculus	3
MATH 370	Abstract Algebra	3
MATH ___ ___	Two 300/400-level Mathematics (excluding 499)	6
MATH ___	One 400-level Mathematics course (excluding 499)	3
CPSC 125 <u>and</u>	Foundations of Computer Science	3
CPSC 150/150L	Computers and Programming I & Lab	4
OR		
CPSC 150/150L <u>and</u>	Computers and Programming I & Lab	4
CPSC 250/250L	Computers and Programming II & Lab	4
Recommended for BA degree:		
PHYS 201/201L	General Physics and Lab	4
PHYS 202	General Physics	3
Required for a BS degree:		
PHYS 201/201L	General Physics and Lab	4
PHYS 202/202L	General Physics and Lab	4

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED MATHEMATICS 6 - 12

GRADUATE COURSE REQUIREMENTS

MATH 570m/s	The Study of Mathematics	3
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PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS Field Experience

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	24
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
7 CREDITS	Mathematics Literacy	7

PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
MATH 125	Elementary Statistics	3
	(May be replaced by MATH 435)	
MATH 140	Calculus and Analytic Geometry	4
MATH 250	Multivariable Calculus	3
MATH 260	Linear Algebra	3
MATH 310	Proofs and Discrete Mathematics	3
MATH 335	Applied Probability	3
MATH 360	Advanced Calculus	3
MATH 370	Abstract Algebra	3
MATH ___ ___	Two 300/400-level Mathematics courses	6
MATH ___	One 400-level Mathematics course	3
CPSC 125 <u>and</u>	Foundations of Computer Science	3
CPSC 150/150L	Computers and Programming I & Lab	4
OR		
CPSC 150/150L <u>and</u>	Computers and Programming I & Lab	4
CPSC 250/250L	Computers and Programming II & Lab	4

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE MUSIC - CHORAL PK - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

MUSC 520	Choral Literature and Conducting	3
MUSC 510	Foundations of Music Education	2
MUSC 580	Jazz Ensemble Techniques	1

FIFTH YEAR - SUMMER

PSYC 535	Exceptional Learner	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

FIFTH YEAR - FALL

ENGL 522	Reading across Content Areas	3
MUSC 537	Music in Elementary Schools	2
APP COND 533	Applied Choral Conducting OR	2
APP MUSC 533	Applied Lessons	
MUSC 515	Orchestration	1
MUSC 598	Choral Apprenticeship	1
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures OR	
MUSC 595	Advanced Topics in Music	

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

MATH 125	Elementary Statistics	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
SOCL 314	Education, Culture and Society	3

Applied Music and Ensembles

APP MUSC 131-132, 231-232, 331-332, 431-432 (Senior Recital)	8
8 Credits of MUSC 105, 106, or 117	8
Non-credits of MUSC 012	8
MUSC 115-116 and 215-216 or four (4) semesters of APP PIAN 130; successful completion of the piano proficiency for choral music education majors	4

(Continued on next page)

Music Theory and History

MUSC 200	Music Technology	1
MUSC 209-210	Elementary Ear Training	2
MUSC 309-310	Advanced Ear Training	2
MUSC 211-212	The Tonal System-Tonal Harmony & Voice-Leading	6
MUSC 311-312	Chromatic Harmony-Extended Tonal Techniques & Atonality	6
MUSC 303-304-305	History of Western Music	9
MUSC 306	WI: Global Transformations: "World Music" and the "World"	3
MUSC 401	Seminar in Music Bibliography	1

Music Techniques

MUSC 220	Brass Instrument Techniques	1
MUSC 230	Woodwind Instrument Techniques	1
MUSC 240	Percussion Techniques	1
MUSC 250	String Instrument Techniques	1
MUSC 265-266	Foreign Language Diction I & II	2
MUSC 496	Vocal Pedagogy	3

Conducting and Literature

MUSC 314	Principles of Choral Conducting	3
Completion of exit examination in music theory and music history with a score of 70% or higher.		
Electives within or outside of Music		2

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE MUSIC - INSTRUMENTAL PK - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

MUSC 510	Foundations of Music Education	2
MUSC 530/540	Wind/Orchestral Literature & Conducting	3
MUSC 580	Jazz Ensemble Techniques	1

FIFTH YEAR - SUMMER

PSYC 535	Exceptional Learner	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

FIFTH YEAR - FALL

ENGL 522	Reading & Writing in Content Areas	3
MUSC 537	Music in Elementary Schools	2
MUSC 515	Orchestration	1
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures OR	
MUSC 595	Advanced Topics in Music	
APP COND 533	Applied Wind/Orchestral Conducting OR	2
APP MUSC 533	Applied Music	
MUSC 570	Marching Band Techniques	1

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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Undergraduate Content and Support Course Requirements

MATH 125	Elementary Statistics	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
SOCL 314	Education, Culture and Society	3

Applied Music and Ensembles

APP MUSC 131-132, 231-232, 331-332 and 431-432 (Senior Recital)	8
MUSC 101, 102, 111, 112 or 114	8
Non-credits of MUSC 012	8
Four semesters of APP PIAN 130; MUSC 115-116, 215-216; successful completion of the piano proficiency for instrumental music education majors	4
MUSC 125	1

(Continued on next page)

Music Theory and History

MUSC 200	Music Technology	1
MUSC 209-210	Elementary Ear Training	2
MUSC 309-310	Advanced Ear Training	2
MUSC 211-212	The Tonal System-Tonal Harmony & Voice-Leading	6
MUSC 311-312	Chromatic Harmony-Extended Tonal Techniques & Atonality	6
MUSC 303-304-305	History of Western Music	9
MUSC 306	WI: Global Transformations: "World Music" and the "World"	3
MUSC 401	Seminar in Music Bibliography	1

Music Techniques

MUSC 220	Brass Instrument Techniques	1
MUSC 230	Woodwind Instrument Techniques	1
MUSC 240	Percussion Techniques	1
MUSC 250	String Instrument Techniques	1
MUSC 260	Voice Techniques	1

Conducting and Literature

MUSC 316	Principles of Instrumental Conducting	3
Completion of exit examination in music theory and music history with a score of 70% or higher.		
Electives within or outside of Music		6

COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED PHYSICS 6 - 12

GRADUATE COURSE REQUIREMENTS

Choose two of the following three:

PHYS 501	Models of Dynamical Systems	3
PHYS 502	Quantum Physics	3
PHYS 504	Electromagnetic Theory	3

PROFESSIONAL YEAR - SUMMER

BIOL 538	Teaching Secondary Science	4
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
PSYC 535	Exceptional Learner	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PHYS ____	500-level Physics Elective	2
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3
MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3

Core Courses:

CPEN 371 W	Computer Ethics WI	2
CPSC 125	Foundations of Computer Science	3
CPSC 150/L-250/L	Computers & Programming I & II and Labs	8
MATH 140	Calculus and Analytic Geometry	4
PHYS 201/L-202/L	General Physics and Lab	8
PHYS 340	Methods of Theoretical Physics	3

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Support Courses in Applied Physics:

ENGR 121	Engineering Design	3
MATH 240	Intermediate Calculus	4
MATH 250	Multivariable Calculus	3
MATH 320	Ordinary Differential Equations	3

Major Courses in Applied Physics:

ENGR 211, 211L	Intro. to Electric Circuits & Electronics, & Lab	4
CPEN 214	Digital Logic Design	3
PHYS 303	General Physics	3
PHYS 341	Design and Analysis of Experiments	3
PHYS 351	Modern Physics	3
PHYS 401	Models of Dynamical Systems	3
PHYS 404	Electromagnetism	3
ENGR 212, 212L	Electronics and Laboratory	4
PHYS 352	Device Physics	3
PHYS 402	Quantum Physics	3
PHYS 406	Thermodynamics	3
PHYS 421	System Design Lab (Data Acquisition)	3
PHYS 431	Optical Physics	3
PHYS 441	Modeling and Simulation OR	3
MATH 440	Mathematical Modeling	3
PCSE 499W	Independent Study in Applied Physics and Computer Science	Credit Varies

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE PHYSICS 6 - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

Choose two of the following three:

PHYS 501	Models of Dynamical Systems	3
PHYS 502	Quantum Physics	3
PHYS 504	Electromagnetic Theory	3

FIFTH YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3
BIOL 538	Teaching Secondary Science	4

FIFTH YEAR - FALL

PHYS ____	Physics Elective	2
ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	3

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture & Society Lab	1

Core Courses:

CPEN 371 W	Computer Ethics WI	2
CPSC 125	Foundations of Computer Science	3
CPSC 150/L-250/L	Computers & Programming I & II and Labs	8
MATH 140	Calculus and Analytic Geometry	4
PHYS 201/L-202/L	General Physics and Lab	8
PHYS 340	Methods of Theoretical Physics	3

(Continue on next page)

Support Courses in Applied Physics:

ENGR 121	Engineering Design	3
MATH 240	Intermediate Calculus	4
MATH 250	Multivariable Calculus	3
MATH 320	Ordinary Differential Equations	3

Major Courses in Applied Physics:

ENGR 211, 211L	Intro. to Electric Circuits & Electronics, & Lab	4
CPEN 214	Digital Logic Design	3
PHYS 303	General Physics	3
PHYS 341	Design and Analysis of Experiments	3
PHYS 351	Modern Physics	3
PHYS 401	Models of Dynamical Systems	3
PHYS 404	Electromagnetism	3
ENGR 212, 212L	Electronics and Laboratory	4
PHYS 352	Device Physics	3
PHYS 402	Quantum Physics	3
PHYS 406	Thermodynamics	3
PHYS 421	System Design Lab (Data Acquisition)	3
PHYS 431	Optical Physics	3
PHYS 441	Modeling and Simulation OR	3
MATH 440	Mathematical Modeling	3
PCSE 499W	Independent Study in Applied Physics and Computer Science	Credit Varies

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED PHYSICS 6 - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

BIOL 538	Teaching Secondary Science	4
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	25
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

General Education/Liberal Learning Coursework:

6 CREDITS	Communication Literacy	6
3 CREDITS	Western Tradition	3
3 CREDITS	Global/Multicultural	3
3 CREDITS	Creative Expressions	3

PSYC 207	Life-span Development	3
PSYC 208	Child Development	3
SOCL 314/314L	Education, Culture and Society and Lab	4
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3
CPEN 214	Digital Logic Design	3
CPEN 371W	Computer Ethics	2
CPSC 250/250L	Computer Programming II & Lab	4
ENGR 121	Engineering Design	3
ENGR 211/211L	Introduction to Electric Circuits & Electronics Lab	4
PHYS 201/201L	General Physics & Lab	4
PHYS 202/202L	General Physics & Lab	4
PHYS 303	General Physics	3
PHYS 351	Modern Physics	3

Two electives from the following:

CPEN 315/315L, 422	6-8
ENGR 212/212L	
PHYS 352, 421, 431, 441 or MATH 440	

Support Courses:

MATH 140, 240, 250, 320	14
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COURSE PLAN FOR MAT WITH LICENSURE ALREADY DEGREED SPANISH PK - 12

GRADUATE COURSE REQUIREMENTS

ENGL 512	Reading Multicultural Literature	OR	3
ENGL 511	Advanced Strategies in TESOL		
SPAN 595	Advanced Topics in Spanish		3
MLAN 570	Teaching Modern Language		3

PROFESSIONAL YEAR - SUMMER

PSYC 535	Exceptional Learner		3
TCHG 516 m/s	Curriculum and Instruction I		2
TCHG 517 m/s	Curriculum and Instruction II		1
TCHG 543	Classroom Management and Discipline		3

PROFESSIONAL YEAR - FALL

ENGL 522	Reading and Writing in Content Areas		3
SOCL 501	Multiculturalism, Diversity and Education	OR	3
TCHG 550	Teaching Across Cultures		
SPAN 538	Apprenticeship in Teaching Spanish		3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers		1
TCHG 510	Teaching Internship		8

TOTAL GRADUATE COURSE HOURS	36
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

PSYC 207	Life-span Development	OR	3
PSYC 208	Child Development		3
SOCL 314	Education, Culture and Society		3
SOCL 314L	Education, Culture and Society Laboratory		1
PSYC 312	Educational Psychology		3
CPSC 110	Introduction to Computing		3

Modern Languages Core:

Choose one of the following:

MLAN 203	Into the Woods: The European Folktale Tradition		3
MLAN 205	The Novel in English Translation		3
MLAN 206	The Drama in English Translation		3
MLAN 207	International Cinema		3

Required:

MLAN 308	Cross-Cultural Awareness		3
MLAN 310	Texts in Context		3
MLAN 490	Capstone Course in Modern Languages		3

(continued on the next page)

Major and Elective Studies:

Choose two of the following:

SPAN 301	Grammar and Composition	3
SPAN 303W	Advanced Grammar and Composition	3
SPAN 314	Conducting Business in Spain and Latin America: Cross-Cultural Negotiations I	3
SPAN 315	Conducting Business in Spain and Latin America: Cross-Cultural Negotiations II	3
SPAN 321	Techniques of Translation and Interpretation	3

Choose one of the following:

SPAN 302	Advanced Spanish Conversation	3
SPAN 304	Advanced Communication in Spanish	3
SPAN 308	Conversation via Cinema	3

Choose two of the following:

SPAN 351	Introduction to Latin-American Literature I	3
SPAN 352	Introduction to Latin-American Literature II	3
SPAN 353	Introduction to Spanish Literature I	3
SPAN 354	Introduction to Spanish Literature II	3

Choose one of the following:

SPAN 361	Hispanic Visual Culture and the Arts	3
SPAN 362	Hispanic Popular Culture	3
SPAN 363	Hispanic Literature and Social Issues	3
SPAN 463W	WI: Studies in Cervantes	3

Select:

6 CREDITS Select two Spanish courses at the 300 level or higher
that have not been used to satisfy one the above categories

Students interested in pursuing an MAT in Spanish or other graduate study are strongly advised to take an additional foreign language through the 202 level.

COURSE PLAN FOR MAT FIVE-YEAR PROGRAM WITH LICENSURE SPANISH PK - 12

GRADUATE COURSE REQUIREMENTS

SENIOR YEAR

(Select two of the three; the third course will be taken in fall of the professional year or by permission of the Graduate Program Coordinator during the senior year.)

ENGL 512	Reading Multicultural Literature OR	3
ENGL 511	Advanced Strategies in TESOL	
SPAN 595	Advanced Topics in Spanish	3
MLAN 570	Teaching Modern Language	3

FIFTH YEAR - SUMMER

PSYC 535	Exceptional Learner	3
TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

FIFTH YEAR - FALL

SPAN 538	Apprenticeship in Teaching Spanish	3
ENGL 522	Reading and Writing in Content Areas	3
SOCL 501	Multiculturalism, Diversity and Education OR	3
TCHG 550	Teaching Across Cultures	
3 Credit Course	Selected from Senior Year graduate courses if not taken Senior Year	(3)

120 HOURS *Field Experience*

FIFTH YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	36
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UNDERGRADUATE CONTENT AND SUPPORT COURSE REQUIREMENTS

PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
PSYC 312	Educational Psychology	3
SOCL 314/314L	Education, Culture and Society and Lab	4
MATH 125	Elementary Statistics	3
COMM 201	Public Speaking OR	3
THEA 230	Practical Acting	3
CPSC 110	Introduction to Computing	3

Modern Languages Core:

Choose one of the following:

MLAN 203	Into the Woods: The European Folktale Tradition	3
MLAN 205	The Novel in English Translation	3
MLAN 206	The Drama in English Translation	3
MLAN 207	International Cinema	3

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Required:

MLAN 308	Cross-Cultural Awareness	3
MLAN 310	Texts in Context	3
MLAN 490	Capstone Course in Modern Languages	3

Major and Elective Studies:**Choose two of the following:**

SPAN 301	Grammar and Composition	3
SPAN 303W	Advanced Grammar and Composition	3
SPAN 314	Conducting Business in Spain and Latin America: Cross-Cultural Negotiations I	3
SPAN 315	Conducting Business in Spain and Latin America: Cross-Cultural Negotiations II	3
SPAN 321	Techniques of Translation and Interpretation	3

Choose one of the following:

SPAN 302	Advanced Spanish Conversation	3
SPAN 304	Advanced Communication in Spanish	3
SPAN 308	Conversation via Cinema	3

Choose two of the following:

SPAN 351	Introduction to Latin-American Literature I	3
SPAN 352	Introduction to Latin-American Literature II	3
SPAN 353	Introduction to Spanish Literature I	3
SPAN 354	Introduction to Spanish Literature II	3

Choose one of the following:

SPAN 361	Hispanic Visual Culture and the Arts	3
SPAN 362	Hispanic Popular Culture	3
SPAN 363	Hispanic Literature and Social Issues	3
SPAN 463W	WI: Studies in Cervantes	3

Select:

6 CREDITS Select two Spanish courses at the 300 level or higher
that have not been used to satisfy one the above categories

Students interested in pursuing an MAT in Spanish or other graduate study are strongly advised to take an additional foreign language through the 202 level.

COURSE PLAN FOR INITIAL LICENSURE ALREADY DEGREED SPANISH PK - 12

GRADUATE COURSE REQUIREMENTS

PROFESSIONAL YEAR - SUMMER

TCHG 516 m/s	Curriculum and Instruction I	2
TCHG 517 m/s	Curriculum and Instruction II	1
TCHG 543	Classroom Management and Discipline	3

PROFESSIONAL YEAR - FALL

SPAN 538	Apprenticeship in Teaching Spanish	3
ENGL 522	Reading and Writing in Content Areas	3
PSYC 535	Exceptional Learner	3
MLAN 570	Teaching Modern Languages	3

120 HOURS *Field Experience*

PROFESSIONAL YEAR - SPRING

TCHG 580	Technology for Teachers	1
TCHG 510	Teaching Internship	8

TOTAL GRADUATE COURSE HOURS	27
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PREREQUISITE CONTENT AND SUPPORT COURSE REQUIREMENTS

Appropriate substituted courses should be documented

PSYC 207	Life-span Development OR	3
PSYC 208	Child Development	3
SOCL 314	Education, Culture and Society	3
SOCL 314L	Education, Culture and Society Laboratory	1
PSYC 312	Educational Psychology	3
CPSC 110	Introduction to Computing	3

Modern Languages Core:

Choose one of the following:

MLAN 203	Into the Woods: The European Folktale Tradition	3
MLAN 205	The Novel in English Translation	3
MLAN 206	The Drama in English Translation	3
MLAN 207	International Cinema	3

Required:

MLAN 308	Cross-Cultural Awareness	3
MLAN 310	Texts in Context	3

Major and Elective Studies:

Choose two of the following:

SPAN 301	Grammar and Composition	3
SPAN 303W	Advanced Grammar and Composition	3
SPAN 314	Conducting Business in Spain and Latin America: Cross-Cultural Negotiations I	3
SPAN 315	Conducting Business in Spain and Latin America: Cross-Cultural Negotiations II	3
SPAN 321	Techniques of Translation and Interpretation	3

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Major and Elective Studies con't:

Choose one of the following:

SPAN 302	Advanced Spanish Conversation	3
SPAN 304	Advanced Communication in Spanish	3
SPAN 308	Conversation via Cinema	3

Choose two of the following:

SPAN 351	Introduction to Latin-American Literature I	3
SPAN 352	Introduction to Latin-American Literature II	3
SPAN 353	Introduction to Spanish Literature I	3
SPAN 354	Introduction to Spanish Literature II	3

Choose one of the following:

SPAN 361	Hispanic Visual Culture and the Arts	3
SPAN 362	Hispanic Popular Culture	3
SPAN 363	Hispanic Literature and Social Issues	3
SPAN 463W	WI: Studies in Cervantes	3

Select:

6 CREDITS Select two Spanish courses at the 300 level or higher
that have not been used to satisfy one the above categories

Students interested in pursuing an MAT in Spanish or other graduate study are strongly advised to take an additional foreign language through the 202 level.

MASTER OF ARTS IN TEACHING

COURSES OF INSTRUCTION

BIOLOGY, CHEMISTRY & ENVIRONMENTAL SCIENCE

BIOL 538. Teaching Secondary Science (4-0-4)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

A course in which prospective teachers are introduced to methods and materials of teaching biology. Emphasis on laboratory exercises and demonstration. Apprentice teachers are expected to design and instruct a variety of laboratory exercises. Apprentice teachers also maintain a journal of practical and methodology experiences.

CHEM 538. Teaching Secondary Science (4-0-4)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

A course in which prospective teachers are introduced to methods and materials of teaching chemistry. Emphasis on laboratory exercise and demonstration. Apprentice teachers are expected to design and instruct a variety of laboratory exercises. Apprentice teachers maintain a journal of practical and methodology experiences.

ENVS 518. Biological Conservation: Theory and Practice (3-3-0)

Biological conservation is a relatively new, applied discipline having more ethical and sociopolitical ramifications than is typical of non-medical scientific disciplines. This course covers the development of conservation theory, biodiversity and problems of determining and evaluating biodiversity, relevant ecological principles, and ethical and economic issues. The course considers current conservation problems and the methods and strategies. The first part of the course is in lecture format and the second part is in seminar format.

ENVS 522. Summer Field Studies (2-0-2)

A one-week field camp in selected habitats emphasizing application of field data gathering and processing techniques to the solving of multifaceted environmental problems. Travel, camping and boat work required. An additional day on campus is required for student presentations.

ENVS 530. Biogeography (3-3-0)

The study of the patterns of distributions of organisms, both past and present, and the abiotic and biotic factors that produced those distributions.

ENVS 532. Wetlands Ecology (4-3-0)

Corerequisite: ENVS 532L

A study of the structure and function of wetland systems from salt to fresh and tropical to the arctic. Concepts will cover hydrology, biogeochemistry, wetland development and succession. Wetland delineation, management, creation and restoration apply these concepts.

ENVS 532L. Wetlands Ecology Laboratory (0-0-4)

Corerequisite: ENVS 532

Field exercises in local wetlands applying principles from lecture.

ENVS 536. Terrestrial Ecology (4-3-0)

Corerequisite: ENVS 536L

A study of the structure and function of terrestrial systems focusing on the distinctive landscapes of the mid-Atlantic coastal region. Concepts will cover population, community and ecosystem ecology of plants and animals within these systems with attention given to the processes and functions that are distinct within and common among these systems.

ENVS 536L. Terrestrial Ecology Laboratory (0-0-4)

Corerequisite: ENVS 536

Field exercises in local terrestrial ecosystems applying principles from lecture.

ENVS 540. Environmental Microbiology (4-3-0)

Corerequisite: ENVS 540L

The course investigates the role microorganisms play in terrestrial, aquatic and marine ecosystems. The course explores: the dynamics of microbial populations and communities; normal microbiota and their interactions with other organisms; and environmental pathologies in which microorganisms are the primary agent (e.g., coliforms and other fecal contaminants in water, and acidophiles in mine tailings).

ENVS 540L. Environmental Microbiology (0-0-4)

Corerequisite: ENVS 540

Laboratory exercises include classic environmental testing procedures and novel new assessment procedures that have their roots in biochemistry and molecular biology.

ENVS 550. Global Change (3-3-0)

An examination of the evidence for and causes of global change. The impact of changes in the global cycles of C, N, P and H₂O on ecosystem structure and function are examined. Atmosphere, terrestrial and aquatic biosphere changes are discussed along with their effect on plant and animal communities. Students present current scientific papers on various issues within this field.

ENVS 590. Topical Seminars in Environmental Science (1-4 credits)

Prerequisites: May vary depending on the topic offered.

A variety of environmental science-related topics not available in the regular curriculum are offered. These courses will be designed to fill a particular need not met by the regular courses or may be designed to use the talents of an environmental scientist who is not part of the CNU faculty.

ENVS 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program and consent of the instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages, and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

COMPUTER SCIENCE

CPSC 501. Software System Design & Implementation (3-3-0)

Prerequisites: CPSC 270 (Fall)

The management, specification, design, implementation and documentation of complex software systems. A paper or class presentation based on independent reading of research papers concerning new developments in software engineering are required. Students are expected to learn to use software systems such as CASE tools.

CPSC 502. Communications I (3-3-0)

Prerequisites: Ability to program in C or C++, or permission of the instructor. (Summer)

A comprehensive view of data communications with an emphasis on computer networks. Baseband and broadband local area networks, OSI model, logical link protocols, media with an emphasis on fiber-based interfaces, topology and routing/flow control. TCP/IP protocols and socket-based application development are emphasized.

CPSC 595. Advanced Topics In Computer Science

(Credit varies) *Prerequisite: Enrollment in the MAT Program or consent of the instructor.*

Course topics are selected on the basis of faculty and student interests.

CPSC 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program and consent of the instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

ENGLISH

ENGL 501. Teaching Literature (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer)

In this seminar, students explore methods for teaching literature. The participants read and analyze various literary works. In addition the seminar introduces students to literary and pedagogical theories, but the emphasis is on the application of these theories to the English classroom.

ENGL 511. Advanced Strategies in TESOL (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

This course is a graduate seminar that examines methods of teaching English to speakers of other languages (TESOL). Students learn about the cognitive, affective, linguistic and sociocultural processes involved in second language development and acquire the ability to critically evaluate and develop teaching methods and materials.

ENGL 512. Reading Multicultural Literature (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Spring)

This course offers students an opportunity to read and discuss important works written by American authors of selected racial, religious, regional or ethnic backgrounds. Students analyze literature and discuss strategies for teaching this literature.

ENGL 514. Critical Reading of Children's Literature (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall/Spring)

This course is a theoretical inquiry into the nature of children's literature. While reading a variety of contemporary children's books as case studies, students consider what children's literature is, how (or if) it differs from literature for adults, what our cultural and personal assumptions about the nature of childhood are, and how those assumptions govern what adults think children do or ought to read.

ENGL 521. Teaching Writing (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of the instructor. (Fall)

This course offers an introduction to the theory and practice of writing. Participants identify writing stages, explore approaches to teaching writing (such as writers workshop), and present writing lessons that exemplify various theoretical approaches. In addition, each student develops a practical theory of composition that can be used in a classroom. A field experience will be encouraged. NOTE: There are separate sections for elementary and secondary teacher candidates.

ENGL 522. Reading & Writing in Content Areas (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall)

Focus is on the skills and strategies for teaching reading and writing through the content areas, with emphasis on reading comprehension, vocabulary development, study skills and expository writing. A 12-hour field experience is required.

ENGL 532. Language Varieties in American Schools

(3-3-0) *Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall, Spring)*

This course surveys topics relevant to the language arts classroom. Illustrative topics include grammar and writing, language acquisition, techniques to facilitate the learning of Standard English by speakers of other lan-

guages and dialects, language variation, spoken versus written English, etc.

ENGL 595. Advanced Topics in English

(Credit varies) *Prerequisite: Enrollment in the MAT Program or consent of instructor.*

Course topics are selected on the basis of faculty and student interests.

ENGL 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

FINE ARTS

FNAR 534. Theory and Practice of Art Education (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall)

A study of the theories of art education related to child development, perceptual theory and general educational philosophy. Course focuses on the disciplines of art, art history, art production, art criticism and aesthetics. Field observation is required.

FNAR 535. Integrating the Visual Arts (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer)

This seminar invites students to consider and create the varied ways in which the visual arts can be integrated within the context of public school teaching. A number of integrative approaches are considered: integrating the arts into other content areas; integrating one's own personal talents and interest into the art classroom; integrating community resources into the curriculum; and integrating various aspects of the visual arts into teaching units.

FNAR 589. Teaching Functional Arts (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Spring)

Teaching Functional Arts is a course that continues the exploration of craft processes and materials appropriate for art teachers. Possible projects include weaving, copper enameling, fabric surface design, wood construction and jewelry making. Students develop competencies in presenting mini-workshops in craft skills.

FNAR 595. Advanced Topics in Art (Credit varies)

Prerequisite: Enrollment in the MAT Program or consent of the instructor.

Course topics are selected on the basis of faculty and student interests.

FNAR 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

FRENCH

MLAN 570 Teaching Modern Languages (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Students use their foreign language and cultural knowledge to plan and delivery lessons; create classroom experiences appropriate to the needs of learners; develop effective strategies for teaching the foreign language in meaningful context; collaborate with peers in reflection on the teaching/learning process and in planning lessons; and develop an awareness of the responsibility of an educator

FREN 503. Advanced Writing and Stylistics (3-3-0)

Prerequisite: FREN 303W or consent of the instructor.

The focus of this course is on process writing at the advanced level. Through a variety of activities, including imitation of models, creation of multiple drafts, peer editing and a system of guided corrections, students are encouraged to develop their writing skills, improve their linguistic competence, and master appropriate levels of style in French. In addition to the basic material of the course, students create lesson plans and present selected areas of French structure to the class, keep a journal in which they reflect on teaching styles and techniques, guide the peer editing process for selected classes, serve as tutors for the undergraduate students, and meet regularly with the instructor to discuss questions of methodology and pedagogy. In addition to the basic writing assignments for the course, graduate students will be required to submit one longer piece of writing, and they will also be evaluated on their overall level of preparedness for the teaching of French.

FREN 538. Research in Foreign Language Teaching

(3-3-0) *Prerequisite: FREN 338, and enrollment in the MAT Program or consent of instructor. (Summer)*

This is a course designed to have candidates for the MAT in French do individual research projects on foreign language methodology and pedagogy and second language acquisition. Such projects may include readings, observations of foreign language classes, and the creation of sample materials for the classroom. All students in FREN 538 will complete a term paper on a topic dealing with foreign language teaching to be approved by the instructor.

FREN 595. Advanced Topics in French (Credit varies)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Course topics are selected on the basis of faculty and student interests.

FREN 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages, and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

GOVERNMENT & GEOGRAPHY

GEOG 570. World Geography for Teachers (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

This course has two major purposes: 1) to enhance (future) teachers' abilities to find and assess learning resources for secondary-level world geography and 2) to enhance (future) teachers' content knowledge of world geography. The course begins with a survey of core geographic ideas, the key learning objectives in geographic education. The latter half of the course is devoted to finding and appraising resources for geographic learning and instruction. The capstone project is a learning resources portfolio covering a particular world region.

GOVT 570. Methods for Teaching Social Studies

(3-3-0) *Prerequisite: Enrollment in the MAT Program or consent of instructor.*

Social studies education is a powerful tool, not only in the development of democratic behavior, but also in the promotion of understanding multiculturalism and the complexities of global issues that are shaping the world today. This course exposes prospective social studies teachers to various methodologies that they can employ in their teaching to achieve the goals of preparing the youth in meeting the challenges of an ever-changing and complex world.

GOVT 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

HISTORY

HIST 510. The American Historian as Teacher (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

The primary focus of this graduate seminar is to prepare students who will pursue a career in teaching history and social studies. To that end, the seminar will examine themes in American history from many different perspectives (e.g. political, economic, social, and cultural), but the specific focus, form and content of each seminar will be determined by the instructor. Previous subjects have included the colonial period, slavery, women's rights, and the Vietnam War. All seminars will deal with selected problems in history and an examination of historiography, methodology and philosophy of history. Seminar discussions and research projects revolve around primary and secondary sources, monograph and academic articles, competing interpretation of historical events, and communicating lessons to future students. As areas of study vary on a regular basis, this course may be repeated for credit.

HIST 520. The European Historian as Teacher (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

The primary focus of this graduate seminar is to prepare students who will pursue a career in teaching history and social studies. To that end, the seminar will examine themes in European history from many different perspectives (e.g. political, economic, social, and cultural), but the specific focus, form and content of each seminar will be determined by the instructor. Previous subjects have included ancient Rome, Tudor Britain, and modern Germany. All seminars will deal with selected problems in history and an examination of historiography, methodology and philosophy of history. Seminar discussions and research projects revolve around primary and secondary sources, monograph and academic articles, competing interpretation of historical events, and communicating lessons to future students. As areas of study vary on a regular basis, this course may be repeated for credit.

HIST 530 The World Historian as Teacher (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

The primary focus of this graduate seminar is to prepare students who will pursue a career in teaching history and social studies. To that end, the seminar will examine themes in non-western world history from many different perspectives (e.g. political, economic, social, and cultural), but the specific focus, form and content of each seminar will be determined by the instructor. Regions covered may be Asia, Africa, Latin America, and Middle East. All seminars will deal with selected problems in history and an examination of historiography, methodology and philosophy of history. Seminar discussions and research projects revolve around pri-

mary and secondary sources, monograph and academic articles, competing interpretation of historical events, and communicating lessons to future students. As areas of study vary on a regular basis, this course may be repeated for credit.

HIST 595. Advanced Topics in History (Credit varies)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Course topics are selected on the basis of faculty and student interests.

HIST 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

MATHEMATICS

MATH 538. Apprenticeship in Teaching Mathematics (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall)

The purpose of the course is to have students work with lower-level college students in understanding and mastering basic mathematics concepts. Students are assigned tutorial activities such as observing, analyzing class responses and assisting in class work. This includes administering individual and group tutoring sessions, submitting a log of interactions and writing a research paper about how students learn mathematics.

MATH 570. The Study of Mathematics (3-3-0)

This course has separate sections for elementary and middle/secondary. Prerequisite: Enrollment in the MAT Program or consent of instructor.

Focus on the methodology necessary for teaching school mathematics based on current understanding and insights derived from both content and pedagogy. Development of creative instructional approaches that are meaningful and mathematically correct and which instill enthusiasm and satisfaction in learning and using mathematics. Includes a 12-hour field experience.

MATH 578. Elementary Geometry from an Advanced Viewpoint (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of the instructor. (Spring)

This course compares and contrasts the origins, applications and basic structures of Euclidean and non-Euclidean geometry. Attention is given to ideas involved in teaching geometry.

MATH 595. Advanced Topics in Mathematics (Credit varies) *Prerequisite: Enrollment in the MAT Program or consent of the instructor.*

Course topics are selected on the basis of faculty and student interests.

MATH 596. Curriculum and Assessment in Secondary School Mathematics (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer)

The purpose of the course is to review those mathematics topics taught in middle school and high school. Students also explore ways of knowing and assessing these various competencies.

MATH 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

MUSIC

APP COND 533. Applied Choral Conducting (2-0-1)

Prerequisite: MUSC 314 and MUSC 520. (Fall)

The study of applied choral conducting at the graduate level is to develop further the synthesis of baton technique, rehearsal technique, expression and scholarship. Through weekly practice with the CNU Chamber Choir; conducting on concerts and recitals; attending master classes, recitals, and concerts; listening to recordings; and reading articles and books on conducting and pedagogy, a student will have the opportunity to improve technique and performance and achieve a greater musical and historical understanding of the repertoire.

APP COND 533. Applied Orchestral Conducting (2-0-1)

Prerequisite: MUSC 316 and MUSC 540. (Fall)

The study of applied orchestral conducting at the graduate level is to develop and further the synthesis of baton technique, rehearsal technique, expression, and scholarship. Through weekly practice with the CNU Orchestra; conducting of concerts and recitals; attending master classes, recitals, and concerts; listening to recordings; and reading articles and books on conducting and pedagogy, a student will have the opportunity to improve technique and performance and achieve a greater musical and historical understanding of the repertoire.

APP COND 533. Applied Wind Conducting (2-0-1)

Prerequisite: MUSC 316 and MUSC 530. (Fall)

The study of applied wind conducting at the graduate level is to develop further the synthesis of baton technique, rehearsal technique, expression and scholarship.

Through weekly practice with the CNU Wind Ensemble; conducting of concerts and recitals; attending master classes, recitals, and concerts; listening to recordings; and reading articles and books on conducting and pedagogy, a student will have the opportunity to improve technique and performance and achieve a greater musical and historical understanding of the repertoire.

APP MUSC 533. Applied Music (2-0-1)

Prerequisite: APP MUSC 432/434; music education major pursuing the MAT degree or consent of the instructor. (Fall)

The study of applied music at the graduate level is to develop further the synthesis of technique, expression, repertoire and performance. Through weekly, 50-minute lessons, intense study of selected repertoire, and performance, the student will continue to develop the knowledge and skills expected of a professional musician. The course is of particular value to music pedagogues desiring to become more distinguished performers.

MUSC 510. Foundations of Music Education (2-2-0)

Prerequisite: Music education major pursuing the MAT degree or consent of the instructor. (Fall)

This is a comprehensive course focusing on the instruction and management of instrumental music program from middle school through high school. Methods and materials for beginning through secondary instrumental music students are discussed and experienced through reading, writing and practicum. The course also includes techniques and methods of measuring and evaluating musical behaviors in cognitive, affective and psychomotor domains.

MUSC 515. Orchestration (1-1-0)

Prerequisite: MUSC 310, 312; music education major pursuing the MAT degree or consent of the instructor. (Fall)

A course in which the basic concepts of arranging music for various groups of instruments are studied. After a general survey of the instruments of the orchestra covering ranges, clefs, timbre, special effects and terminology, techniques of actual orchestration are studied through written projects and analysis of scores. A significant final project requires either an arrangement or an original composition for the major ensemble of the student.

MUSC 520. Choral Literature and Conducting

(3-3-0) *Prerequisite: MUSC 310, 312 and 314; choral music education major pursuing the MAT degree or consent of the instructor. (Spring)*

A survey course that requires historical and structural analysis and conducting of major choral literature from the Renaissance to the present. Students conduct live ensembles both in the classroom and in the rehearsal hall. Special emphasis is placed on major works, composers, compositional styles, analysis, programming, error detection, and conducting. Students read and discuss a variety of material to develop the knowledge and pedagogical skills necessary to become effective teach-

ers, scholars and musicians. A major research paper and presentation are required in addition to 10 hours of field observation and teaching experience in the public schools.

MUSC 530. Wind Literature and Conducting (3-3-0)

Prerequisite: MUSC 310, 312 and 316; instrumental music education major with an emphasis in band pursuing the MAT degree or consent of the instructor. (Spring)

A comprehensive study of wind groups focusing on instrumentation and literature from the earliest beginnings to the present. Special emphasis on major works, composers, stylistic changes, programming and conducting. Students read and discuss a variety of material to develop the knowledge and pedagogical skills necessary to become effective teachers, scholars and musicians. A major research paper and presentation are required in addition to 10 hours of field observation and teaching experience in the public schools. Students conduct live ensembles both in the classroom and in the rehearsal hall. The course is required for the Master of Arts in Teaching degree with a concentration in instrumental music education with an emphasis in band.

MUSC 537. Music in the Elementary Schools (2-2-0)

Prerequisite: Music education major pursuing the MAT degree or consent of the instructor. (Fall)

Fundamental procedures of and experiences in teaching elementary school music, stressing music materials suitable for the first six grades. Methods discussed and practiced include those of Orff, Kodaly, Suzuki, Manhattanville and Dalcroze. An introduction to fretted instruments and recorders is also included. Students read and discuss a variety of material to develop the knowledge and pedagogical skills necessary to become effective teachers, scholars and musicians. A major research paper and presentation are required in addition to 10 hours of field observation and teaching experience in the public elementary schools.

MUSC 540. Orchestral Literature and Conducting (3-3-0)

Prerequisite: MUSC 310, 312 and 316; instrumental music education major with an emphasis in orchestra pursuing the MAT degree or consent of the instructor. (Spring)

A comprehensive study of orchestral groups focusing on instrumentation and literature from the earliest beginnings to the present. Special emphasis on major works, composers, stylistic changes, programming and conducting. Students read and discuss a variety of material to develop the knowledge and pedagogical skills necessary to become effective teachers, scholars and musicians. A major research paper and presentation are required in addition to 10 hours of field observation and teaching experience in the public schools. Students conduct live ensembles both in the classroom and in the rehearsal hall. This course is required for the MAT degree with a concentration in instrumental music education with an emphasis in orchestra.

MUSC 570. Marching Band Techniques (1-1-0)

Prerequisite: MUSC 310, 312 and 316; instrumental music education major pursuing the MAT degree or consent of the instructor. (Fall)

Techniques and methods for organizing, programming, rehearsing, teaching and arranging music for a marching band. Computer-assisted drill design is a major component of this course. A comprehensive notebook and extensive outside readings and viewings or videos are required in addition to 10 hours of field observation and teaching experience in public schools.

MUSC 580. Jazz Ensemble Techniques (1-1-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall)

Techniques and methods for organizing, programming, rehearsing and teaching improvisation in a school jazz band and choral setting. A comprehensive notebook and extensive outside readings and listening examples are required in addition to 10 hours of field observation and participation in the public schools.

MUSC 595. Advanced Topics in Music (Credit varies)

Prerequisite: Enrollment in the MAT Program in Choral Music Education or consent of instructor.

Course topics are selected on the basis of faculty and student interests.

MUSC 598. Choral Apprenticeship (1-0-20)

Prerequisite: Enrollment in the MAT Program in Choral Music Education or consent of instructor. (Fall)

This course is a closely monitored, one-semester apprenticeship with the CNU Director of Choral Studies with the Women's and Men's chorus, the student's cooperating teacher in the public schools at the elementary or secondary level, or with a local volunteer organization such as the YMCA, Boy's and Girl's Clubs of America, or other organizations as approved, in advance, by the faculty supervisor. Students must successfully complete a minimum of 20 hours of on-site training in a self-directed service project directly related to their upcoming student teaching experience for which they receive an evaluation by their training supervisor and the faculty supervisor. The student must also present a Project Book and a log of hours to the training supervisor and the faculty supervisor in addition to writing a research paper that synthesizes the student's work from the apprenticeship.

MUSC 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

PHYSICS

PHYS 501. Models of Dynamical Systems (3-3-0)

Prerequisites: Math through differential equations or permission of the instructor. (Fall)

The classical models of physical phenomena, the modern perspective on their analytic and qualitative solutions and the insights that numerical analysis of the models gives to expected behaviors of dynamical systems. Computer analysis and graphical representation of solutions for regular and chaotic dynamical systems.

PHYS 502. Quantum Physics (3-3-0)

Prerequisites: PHYS 501 or permission of instructor. (Odd Spring)

Study of the formulation of quantum physics and the use of computers to analyze quantum mechanical systems. Topics include the postulates of quantum physics, the Schroedinger equation, indeterminacy, the Heisenberg representation, angular momentum, internal degrees of freedom, the hydrogen atom, perturbation theory, quantization of the EM field and radiative transitions.

PHYS 504. Electromagnetic Theory (3-3-0)

Prerequisites: PHYS 304 or MATH 350 or permission of instructor. (Even Spring)

Review of electrostatics and magnetostatics. Maxwell's equations and time varying fields: wave propagation and polarization, waveguides and cavities and radiating systems. Computer programs for the solution of problems will be emphasized.

PHYS 595. Advanced Topics in Physics (Credit varies)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Course topics are selected on the basis of faculty and student interests.

PHYS 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

PSYCHOLOGY

PSYC 521. Reading Acquisition and Development.

(3-3-0) *Prerequisite: Enrollment in the MAT Program or consent of instructor and reading field experience. (Summer, Fall)*

Corequisite: PSYC 521L

This course examines theories, principles, strategies and research related to reading acquisition and development in children from preschool through elementary

grades. The developmental nature of reading acquisition and the application of current reading research to instructional practice will be emphasized. Topics covered will include theories of reading development; skills-based, holistic and balanced approaches to reading instruction; the application of empirical research findings to reading instruction; language basics, including syllables, phonemes and morphemes; concepts of print; letter recognition; phonemic awareness; the alphabetic principle (sound-symbol knowledge); vocabulary, fluency, and comprehension strategies; the role of the family in reading acquisition; reading attitudes and motivation; and diverse learners. A minimum 15-hour field experience is required.

PSYC 521L. Reading Acquisition and Development Laboratory (1-0-3)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Spring/Fall)

Corequisite: PSYC 521

This course accompanies PSYC 521, Reading Acquisition and Development. PSYC 521 is designed to provide pre-service teachers a strong theoretical and empirical (research) foundation for understanding the reading acquisition process and one on which to base sound reading instructional practice. The laboratory is designed to provide pre-service teachers the opportunity to apply reading theory and research to successful instructional practice in structured field experiences and reflective analyses of those experiences.

PSYC 535. Exceptional Learner (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer, Fall)

This course provides prospective teachers with a basic understanding of special education, its terminology, legal mandates, the etiology and characteristics of exceptionality, and various strategies for educating students with diverse learning needs. Specifically, students are introduced to appropriate educational interventions related to learning disabilities, mental retardation, emotional disturbance, attention-deficit/hyperactivity disorder, autism, developmental delays, speech or language impairment, hearing impairment, visual impairment, physical disabilities, chronic health conditions, traumatic brain injuries, and giftedness.

PSYC 595. Advanced Topics in Psychology (Credit varies)

Prerequisite: Enrollment in the MAT Program or consent of instructor. Course topics are selected on the basis of faculty and student interests.

PSYC 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by

the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

SOCIOLOGY

SOCL 501. Multiculturalism, Diversity & Education (3-3-0) *Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer, Fall)*

This course addresses the sources and consequences of racial, ethnic, class and gender diversity in the United States with special attention to the implications for education and the public school system. Topics include bilingual education; the relationships between inequalities of race, ethnicity and class and education; immigration and the schools; affirmative action; racism; and sexism.

SOCL 595. Advanced Topics in Sociology (Credit varies) *Prerequisite: Enrollment in the MAT Program or consent of instructor.*

Course topics are selected on the basis of faculty and student interests.

SOCL 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

SPANISH

MLAN 570 Teaching Modern Languages (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Students use their foreign language and cultural knowledge to plan and delivery lessons; create classroom experiences appropriate to the needs of learners; develop effective strategies for teaching the foreign language in meaningful context; collaborate with peers in reflection on the teaching/learning process and in planning lessons; and develop an awareness of the responsibility of an educator.

SPAN 538. Apprenticeship in Teaching Spanish

(3-3-0) *Prerequisite: Enrollment in the MAT Program or consent of instructor. (Fall)*

This course introduces prospective teachers to the skills necessary to plan, implement and evaluate effective lessons in the area of Spanish instruction. In this course, students are assigned to a University professor and work with beginning foreign language students.

SPAN 595. Advanced Topics in Spanish (3-3-0)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Course topics are selected on the basis of faculty and student interests.

SPAN 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.

TEACHING AND LEARNING

TCHG 510. Teaching Internship (8-0-24)

Prerequisite: Enrollment in the MAT program or consent of instructor. (Spring)

A full-time, 12-week clinical teaching experience in the public schools.

TCHG 516. Curriculum and Instruction I (2-2-0)

This course has separate sections for elementary and middle/secondary. Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer)

This course teaches prospective teachers those curriculum and instructional methodologies that are appropriate to the needs of today's students. Emphasis is placed on the acquisition of skills essential for teacher decision-making in the areas of instructional planning, lesson design, and delivery of instruction. Special attention is paid to the research on effective instructional strategies. A key requirement of the course is microteaching simulations that are evaluated by the instructor and student's peers.

TCHG 517. Curriculum and Instruction II (1-1-0)

Prerequisite: TCHG 516. Enrollment in the MAT Program or consent of instructor. (Summer)

This course is designed to continue to teach prospective teachers those curriculum and instructional methodologies that are appropriate to the needs of today's students. Emphasis is placed on the acquisition of skills essential for teacher decision-making in the areas of instructional planning, lesson design, and delivery of instruction, motivation and assessment. A key requirement of the course is microteaching simulations that are evaluated by the instructor and student's peers.

TCHG 518L. Secondary Field Practicum (1-0-2)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

This course is designed to give teacher candidates wishing to teach middle or high school hands-on experience in secondary classrooms. Emphasis is placed on

acquisition of skills necessary for effective implementation of planning, instruction and assessment. Key requirements of the course are attending practicum meetings and completing teaching tasks within the assigned school placement.

TCHG 521L. Reading Acquisition and Development Laboratory (1-0-3)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Corequisite: PSYC 521

This course accompanies PSYC 521, Reading Acquisition and Development. PSYC 521 is designed to provide pre-service teachers a strong theoretical and empirical (research) foundation for understanding the reading acquisition process and one on which to base sound reading instructional practice. The laboratory is designed to provide pre-service teachers the opportunity to apply reading theory and research to successful instructional practice in structured field experiences and reflective analyses of those experiences.

TCHG 543. Classroom Management and Discipline (3-3-0) Prerequisite: Enrollment in the MAT Program or consent of instructor. (Summer)

The course addresses components of successful classroom management, including managing the physical environment, student behavior, instruction and student productivity. A number of discipline models will be presented. Emphasis is on research proven to effect productive classroom behaviors.

TCHG 550. Teaching Across Cultures (3-2-1)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

This course is a two-week study abroad experiential course, tied to a graduate seminar, that examines issues involved in educating students in a context other than the United States. Students learn about the culture of the country under study, and how it impacts the educational goals, pedagogy and materials used in the schools. Comparison and contrast between the country's education and that of the United States will be examined.

TCHG 551, TCHG 552. Reading Recovery ® I and II (3-3-0) (Fall, Spring) Two-semester contract course offered in conjunction with a public school district and only open to licensed teachers. Course is an in-depth study of early literacy acquisition and is designed to provide training in Reading Recovery ®.

TCHG 580 Technology for Teachers (1-1-0) (Spring)

Prerequisite: CPSC 110 or equivalent

This course addresses instructional technology required for the K-12 classroom. Issues, skills and strategies associated with instructional technology are introduced. Experience involving practical application of instructional technology in the classroom is gained throughout the

course. There are separate sections for elementary and secondary candidates.

TCHG 595. Advanced Topics in Teaching (Credit varies) *Prerequisite: Enrollment in the MAT Program or consent of instructor.*

Course topics are selected on the basis of faculty and student interests.

TCHG 599. Independent Study (1-3 Credits)

Prerequisite: Enrollment in the MAT Program or consent of instructor.

Qualified students may enrich their program through directed reading or independent research under faculty supervision and for University credit. Goals, prerequisites, stages and grading are agreed upon in writing by the faculty member and the student and are submitted for approval prior to enrollment. See page 19 for specific instructions and procedures.