

Secondary Program- Licensure Areas and Certification: Music, History, Math, Science (Biology and Physics)

Lane College Department of Education is submitting for reestablishment of the EPP with secondary licensure areas; Math, Science, History, Music and Physical Education. The secondary education program will prepare candidates for teaching in grades 6-12 and will lead to an initial teaching certificate as well as a degree. The curriculum offers instruction in a broad spectrum of topics, giving the teacher candidates the toolkit that they will need to excel in the classroom. The program will focus on the knowledge, skills, and dispositions associated with the effective education of secondary-aged children.

The Bachelor of Science degree in Interdisciplinary Studies with a concentration in secondary education will allow students to design a curriculum that meets individual goals by connecting the core curriculum requirements, as well as CAEP standards. The Bachelor of Science degree in Interdisciplinary Studies is a four-year program that consists of 124 hours.

The programs of structure are divided into 3 levels: general education core (e.g., College Required, Forty-Nine 49 Credit Hours), major requirement and professional core.

**Bachelor of Science in Interdisciplinary Study
Music Education
Four Year Degree Plan – Total Credits: 128**

General Education Core

(44 hours in addition to 6 hours of Music History and 2 hours of World Music to satisfy 6 hours of History and 2 hours of Fine Arts)

ORN	110	Orientation	1
EDU	231	Technology for Educators	3
FIN	122	Personal Finance	2
SPC	230	Foundations of Speech	3
REL	130	World Religions	3
REL	231	History of the Black Church	3
ENG	131	Composition I	3
ENG	132	Composition II	3
ENG	221	Intro to Literature	3
MAT	125	Algebra I	3
MAT	126	Algebra II	3
BIO	143	Science in Education	3
PHY	131	Physical Science	3
FRE/SPN	131	French/Spanish I	3
FRE/SPN	132	French/Spanish II	3
PER		Activity	1
PER		Activity	1
TOTAL GENERAL EDUCATION CORE			44

PROFESSIONAL CORE (29 hours)

PSY	131	Educational Psychology	3
PSY	330	Exceptional Learner	3
EDU	230	Foundation of Education	3
EDU	232	Curriculum Instruction	3
EDU	330	Classroom Management	2
EDU	420	Student Teaching Seminar	3
EDU	430	Enhanced Student Teaching	9
EDU	435	Education Certification	3
TOTAL PROFESSIONAL CORE			29

MUSIC MAJOR CORE (43 hours)

MUS		Large Ensemble(4 semesters)	4
MUS		Small Ensemble (2)	2
MUS		Applied & Advanced Applied	6
MUS	441	Degree Recital	0
MUS	118	Class Piano I	1
MUS	119	Class Piano II	1
MUS	131	Music Theory I	3
MUS	132	Music Theory II	3
MUS	231	Music Theory III	3
MUS	232	Music Theory IV	3

MUS	221	Instruments I	2
MUS	222	Instruments II	2
MUS	242	String Methods	1
MUS	323	Conducting I	2
MUS	331	Music History & Literature I	3
MUS	332	Music History & Literature II	3
MUS	334	World Music	2
MUS	422	Orchestration	2
TOTAL MUSIC MAJOR CORE			43

MUSIC EDUCATION CORE (12 hours)

Instrumental Endorsement

MUS	110	Marching Band Techniques	1
MUS	113	Choir	1
MUS	225	Band Literature	2
MUS	423	Conducting II	2
MUS	424	General Music Methods & Materials	3
MUS	426	Instrumental Methods & Materials	3
TOTAL INSTRUMENTAL ENDORSEMENT			12

Vocal Endorsement

MUS	218	Class Piano III	1
MUS	219	Class Piano IV	1
MUS	223	Diction for Singers	2
MUS	224	Choral Literature	2
MUS	424	General Music Methods & Materials	3
MUS	425	Vocal Methods & Materials	3
TOTAL VOCAL ENDORSEMENT			12

**Bachelor of Science Degree in Interdisciplinary Studies
Music Education
Four Year Degree Plan – Total Credits: 128**

First Year Freshman	First Semester				Second Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	ORN	110	Orientation	1	MAT	126	Algebra II	3
	MAT	125	Algebra I	3	ENG	132	Composition II	3
	ENG	131	Composition I	3	BIO	143	Science in Education	3
	PHY	131	Physical Science	3	PER		Activity	1
	MUS		Ensemble	1	MUS		Ensemble	1
	MUS		Applied Music	1	MUS		Applied Music	1
	MUS	118	Class Piano I	1	MUS	119	Class Piano II	1
	MUS	131	Music Theory I	3	MUS	132	Music Theory II	3
		Total	16			Total	16	
Summer I				Summer II				
FRE/SPN	131	French/Spanish I	3	FRE/SPN	132	French/Spanish I	3	
REL	130	World Religions	3					
		Total	6			Total	3	

Benchmark 0: *Entry into the College: Identifying Freshman Students as Music Education Majors*

Second Year Sophomore	Third Semester				Fourth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	ENG	221	Intro to Literature	3	PER		Activity	1
	EDU	230	Foundations of Edu	3	PSY	131	Educ. Psychology	3
	MUS		Ensemble	1	EDU	231	Technology for Educ	3
	MUS		Applied Music	1	MUS		Ensemble	1
	MUS	221	Instruments I	2	MUS		Applied Music	1
	MUS*	223/225	Diction for Singers/Band Lit	2	MUS	222	Instruments II	2
	MUS	231	Music Theory III	3	MUS*	224/323	Choral Lit/Conducting I	2
			Total	15	MUS	232	Music Theory IV	3
						Total	16	

Benchmark 1: *Before the end of Fourth Semester, candidate should:*

- **Be admitted to the Educator Preparation Program.**

Third Year Junior	Fifth Semester				Sixth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	SPC	131	Foundations of Speech	3	FIN	150	Personal Finance Mgt.	2
	MUS		Ensemble	1	REL	231	History of Black Church	3
	MUS		Advanced Applied Music	1	MUS		Ensemble	1
	MUS	218/110	Class Piano III/Marching Band Tech	1	MUS		Advanced Applied Music	1
	MUS	242	String Methods	1	MUS	219/113	Class Piano III/Choir	1
	MUS	331	Music History & Literature I	3	MUS	332	Music History & Literature II	3
	MUS	421	Orchestration	2	MUS	334	World Music	2
	MUS	424	Gen Music Methods & Materials	3	MUS	425/426	Vel/Instr Methods & Materials	3
		Total	15			Total	16	

Benchmark 2: *Admission into EPP* **Benchmark 3:** *Content/Field-Based Course*

Fourth Year Senior	Seventh Semester				Eighth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	PSY	330	Exceptional Learner	3	EDU	420	Student Teaching Sem	3
	EDU	330	Classroom Mgt.	2	EDU	430	Enhanced St. Teaching	9
	EDU	232	Curriculum & Instruct	3				
	MUS	323/423	Conducting/Conducting II	2				
	MUS	441	Senior Recital	0				
	EDU	435	Education Certification	3				
		Total	13			Total	12	

Benchmark 4: *Before the end of Seventh Semester, candidates should have completed the Piano Proficiency and attended a total of 30 concerts
Candidates will complete the edTPA during the first placement of Student Teaching
Satisfy all requirements for Tennessee Teacher Certification Graduate from the Teacher Educator Preparation Program*

Name: _____ Phone: _____

Advisor: _____

Approved: _____
Department Chair _____ Date: _____

COURSE DESCRIPTION

MUS 110 Marching Band Techniques 1 Credit

This course introduces students to the fundamental principles of effective instruction and best practices in contemporary marching band and gives students opportunities to apply preparation, organization, teaching and rehearsal skills. Additionally, students will be challenged to examine their expectations, aspirations and biases regarding the role of the marching band in music education. Through practical assignments, guest lecturers, and multimedia presentations, students will gain a command of the terminology, pedagogy, and structure of the marching band activity.

MUS 111 Marching Band 1 Credit

Field and parade marching and performance of selected band repertoire. Participation of all performances is required in addition to regularly scheduled rehearsals.

MUS 112 Concert Band 1 Credit

Study and performance of standard concert band repertoire. Participation at all performances is required in addition to regularly scheduled rehearsals.

MUS 113 LC Choir 1 Credit

Study and performance of a wide range of choral literature representative of various styles, composers, and eras. Course is repeatable with a grade of C or better.

MUS 114 Jazz Band 1 Credit

Ensemble specializes in the performance of various streams of jazz and other music appropriate to stage band, jazz ensembles, and vocal jazz groups.

MUS 118 Class Piano I 1 Credit

The first of four-semester sequential course to develop functional keyboard skills for non-piano Music majors. An application of theory-driven curriculum stressing fundamental musicianship fluency of scales, rhythm, sight reading, and repertoire. This course is designed to be taken concurrently with MUS 131 Music Theory I.

MUS 119 Class Piano II 1 Credit

The second semester of Class Piano Sequence continues the development of functional keyboard musicianship with additional study of keyboard theory, harmonization and transposition. This course is designed to be taken concurrently with MUS 132 Music Theory II.

MUS 218 Class Piano III 1 Credit

The third semester of Class Piano Sequence further develops functional keyboard musicianship and includes score reading and improvisation as well.

MUS 219 Class Piano IV 1 Credit

The final semester of Class Piano Sequence focus on the practical applications of the functional keyboard skills in various musical contexts according to the concentration of the music majors.

MUS 131 Music Theory I 3 Credits

Introduction to the theory of music and aural skill. This course stresses fluency in pitch and rhythmic reading and introduces concepts of modes, major-minor tonality, intervals and diatonic triads as well as basic musical terminology. Aural skills lab includes sight singing and simple rhythmic and melodic dictation.

MUS 132 Music Theory II 3 Credits

The second semester of the Music Theory Sequence strengthens the concept of major-minor tonality through study of diatonic harmonic progressions, dominant seventh chord, chord inversions, and cadences. Students will master concepts of figured-bass and roman numerals in music harmony. Aural skills lab includes sight singing and simple rhythmic and melodic dictation.

MUS 221 Instruments I 2 Credits

Fundamental techniques of teaching and playing woodwind and percussion instruments. The woodwind instruments include single and double reeds and flute.

MUS 222 Instruments II 2 Credits

Fundamental techniques of teaching and playing brass and percussion instruments. The definite pitch percussions focus on tympani and keyboard type (marimba, etc.) instruments. Indefinite pitched percussions focus of snare drum and auxiliary instruments. Emphasis is placed on approaches and materials used in developing performing groups and programs.

MUS 223 Diction for Singers 2 Credits

Increases proficiency in singing Italian, German, French and British and Neutral American English by teaching International Phonetic Alphabet (IPA) which strengthens performance of Italian, German, French, English art songs, operatic and musical theatre repertoire. Dictions for Singers focuses on intensified, systematic study of phonetics as it applies to singing in Italian, German, French and British and Neutral American English.

MUS 224 Choral Literature 2 Credits

A broad survey of choral repertoire from the medieval period to contemporary compositions. This course includes study and analysis of multiple level choral ensembles; effective concert programming; administration and librarianship unique to choral ensembles; traditional and digital procurement as well as knowledge of legal usage of choral materials in various settings.

MUS 231 Music Theory III 3 Credits

The third semester of the Music Theory Sequence delves into four-part figured bass writing along with the study of harmonic analysis using excerpts of standard musical works, and introduces lead sheet notation. Aural skills lab includes sight singing, rhythmic, harmonic, and melodic dictation.

MUS 232 Music Theory IV 3 Credits

The final semester of the Music Theory Sequence begins the study of modulation, secondary dominants, non-dominant seventh, borrowed and altered chords in both figured bass and lead

sheet style notation, expands the scope of harmonic analysis study, explores the concept of melodic organization. Aural skills lab includes sight singing, rhythmic, harmonic, and melodic dictation.

MUS 242 String Methods 1 Credit

Fundamental techniques of teaching and playing orchestral string instruments. Emphasis will be placed on approaches and materials used in developing performing groups and programs.

MUS 323 Conducting I

Beginning techniques in conducting band, chorus, and orchestra. Introduction to score reading.

MUS 331 Music History I 3 Credits

The history of music from its beginning to 1800. Emphasis on styles, forms, influences, contributions, and literature.

MUS 332 Music History II 3 Credits

The study of music from 1801 to the present.

MUS 334 World Music 2 Credits

This course surveys the selected musical traditions of the world. By looking at selected communities in detail, students will better understand that music is, in most cases, connected to culture and cannot be understood without an awareness of cultural contexts. Students will also develop a musical vocabulary and listening skills through exposure to recordings, lectures and assignments about stylistic elements, and analysis. The ability to read music is not required for the course, but it is helpful. The lectures will be supplemented with sound recordings, and will include in-class demonstrations when possible.

MUS 421 Orchestration 2 Credits

Scoring for band, orchestra and choral groups. Exploration of timbres, ranges, nomenclature, and limitations of widely used instruments.

MUS 423 Conducting II 2 Credits

This course reinforces pedagogical aspects of conducting, communication skills, score analysis, time management and baton technique necessary to be an effective conductor/communicator.

MUS 424 General Music Methods & Materials 3 Credits

The purpose of this course is to help you develop techniques for lesson planning, practice skills in lesson delivery, attain knowledge of children's musical and cognitive development, guide the acquisition of music literacy skills, develop assessment tools, and find and learn age appropriate musical experiences for elementary children.

MUS 425 Vocal Music Methods & Materials 3 Credits

Focus on the specific methods and materials of teaching vocal music. Emphasis is on classroom management skills, organization of choral programs, and methods of teaching vocal methods.

MUS 426 Instrumental Music Methods & Materials 3 Credits

The purpose of this course is to provide students with specific and tangible skills, techniques and materials to create, administer, and maintain a successful middle school and high school music program. Emphasis will be on developing and demonstrating techniques necessary for recruitment, rehearsal, and evaluating school instrumental ensembles. This course will also include philosophical, theoretical, and practical methods of teaching in a music classroom.

MUS 141, 142, 143, 341, 342, 343 Applied Music 1 Credit

The courses listed above provide private instruction in the student's medium of performance, i.e., piano, voice, or any instrument of the band. A one-hour lesson each week and minimum of ten hours of practice per week is required.

MUS 441 Senior Recital 0 Credit

This degree requirement is the culmination of all applied music study for music majors. Students will present a public recital as course completion. A qualifying hearing will take place prior to the public performance

EDU 230: Foundations of Education 3 Credits

A survey of the development of education through the various stages of civilization. A study of organizational structure, issues, practices, and trends and their relation to basic philosophical concepts and historical development; also the principles underlying modern education, including, ethical and legal considerations, and the relationship of the school to the community. This course is a prerequisite for all education course work and admittance to the Teacher Education program. Prerequisite: ENG 131. Offered: F/S (A)

EDU 330: Classroom Management 3 Credits

An integrated learning experience dealing with the major problems, issues, and innovations in the classroom. Emphasis placed on effective communication, and management and control of student activities in self-contained classrooms as well as in secondary classes. Strategies for developing pupils study habits, self-control, and self-discipline.

Prerequisite: EDU 230. Offered: F/S (A)

EDU 420: Education Seminar 2 Credits

This course will be taught in conjunction with EDU- 430 Enhanced Student Teaching. Focus on application and analysis of teaching knowledge in the classroom. No other courses may be taken during the semester of student teaching.

Prerequisite: Completion of all requirements except student teaching.

EDU 430: Enhanced Student Teaching* 10 Credits

A comprehensive course under close supervision in which the student teacher learns to foster student/teacher relationships and to demonstrate mastery of instructional techniques and materials. Prerequisites: EDU 420

PSY 131: Educational Psychology 3 Credits

The study of psychological principles of learning and evaluation of learning from pre-school through high school age. Emphasis is upon developing a model for teaching and the application of theory to the classroom. Attention is given to educational research materials and techniques.

Prerequisite: EDU 230. Offered: S (A)

PSY 330: The Exceptional Learner 3 Credits

A survey course with an overview of the field of special education, including the historical perspective of the field. Emphasis is placed on the characteristics and education of children and growth in each area of exceptionality.

Prerequisite: PSY 131. Offered: F (A)

**Bachelor of Science in Interdisciplinary Study
Physical Education (All Levels)
Four Year Degree Plan – Total Credits: 124**

Total Credits: 124

General Education Core (45 hours)

ORN	110	Orientation	1
FIN	150	Personal Finance Mgt.	2
SPC	230	Foundations of Speech	3
REL	130	World Religions	3
REL	231	History of the Black Church/Old/New Testament	3
ENG	131	Composition I	3
ENG	132	Composition II	3
ENG	221	Intro to Literature	3
MAT	125	Algebra I	3
MAT	126	Algebra II	3
BIO	141	Biology I	4
BIO	142	Biology II	4
FRE/SPN	131	French/Spanish I	3
FRE/SPN	132	French/Spanish II	3
MUS	120	Music Appreciation	2
ART	120	Art Appreciation	2

TOTAL GENERAL EDUCATION CORE 45

PROFESSIONAL CORE (24 hours)

EDU	230	Foundation of Education	3
EDU	231	Technology for Education	3
PSY	330	Exceptional Learner	3
EDU	330	Classroom Management	3
EDU	340	Multicultural Setting	3
EDU	435	Education Certification	3
PER	339	Methods of Teaching Physical Education	3
PER	231	Introduction to Physical Education	3

TOTAL PROFESSIONAL CORE 24

PHYSICAL EDUCATION MAJOR CORE (34hours)

PER	223	Elementary Games	3
PER	310	Human Anatomy for Physical Education and Sport	3
PER	325	Adapted Physical Education	3
PER	326	First Aid/Safety	2
PER	327	Motor Learning/Development	3
PER	328	Sport Injuries Prevention/Care	3
PER	331	Kinesiology/Biomechanics	3
PER	338	School Health and Nutrition	3
PER	340	Physiology of Exercise	3
BIO	344	Anatomy and Physiology I	4
BIO	345	Anatomy and Physiology II	4

TOTAL PROFESSIONAL CORE 34

ENHANCED STUDENT TEACHING

EDU	420	Student Teaching Seminar	3
EDU	430	Enhanced Student Teaching	9

Bachelor of Science Degree in Interdisciplinary Studies

Physical Education All Levels

Additional hours of Physical Education (9) Degree Plan – Total Credits: 124

First Year Freshman	First Semester				Second Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	ORN	110	Orientation	1	MAT	126	Algebra II	3
	MAT	125	Algebra I	3	ENG	132	Composition II	3
	ENG	131	Composition I	3	MUS	120	Music Appreciation	2
	REL	130	World Religion	3	HIS	132	U.S. History II	3
	HIS	131	U.S. History I	3	FRE/SPN	132	French/Spanish I	3
	FRE/SPN	131	French/Spanish I	3	FIN	150	Personal Finance Mgt.	2
					PER		Activity (Individual)	1
			Total	16			Total	17

Benchmark 0: Entry into the College: Identifying Freshman Students as Education Majors

Second Year Sophomore	Third Semester				Fourth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	ENG	221	Intro to Literature	3	REL	231	History of Black Church	3
	BIO	141	Biology I	4	BIO	142	Biology II	4
	SPC	131	Foundations of Speech	3	PER	326	First Aid/CPR	2
	EDU	230	Foundations of Edu	3	PER	310	Anatomy Phys. Ed./Sport	3
	PER	231	Intro Physical Education	3	EDU	231	Technology for Educ	3
	PER		Activity (Team)	1	ART	120	Activity (Individual)	1
			Total	17			Total	16

Benchmark 1: Before the end of Fourth Semester, candidate should:
 • Be admitted to the Educator Preparation Program.

Third Year Junior	Fifth Semester				Sixth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	BIO	344	Anatomy/Physiology I	4	BIO	345	Anatomy/Physiology II	4
	PER	223	Elementary Games	3	EDU	330	Classroom Management	3
	PER	328	Sport Injuries Prevention/Care	3	PER	327	Motor Learning/Development	3
	PER	325	Adapted Physical Education	3	PER	335	School Health/Nutrition	3
	PER	340	Physiology of Exercise	3	PER	331	Kinesiology	3
	PER		Activity (Team)	1				
			Total	17			Total	16

Benchmark 2: Admission into EPP **Benchmark 3:** Content/Field-Based Course

Fourth Year Senior	Seventh Semester				Eighth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	PSY	330	Exceptional Learner	3	EDU	420	Student Teaching Sem	3
	EDU	340	Multicultural Settings	3	EDU	430	Enhanced St. Teaching	9
	EDU	435	Education Certification	3				
	PER	339	Methods Teaching P.E./Sec.	3				
	PER		Activity (Team)	1				
			Total	13			Total	12

Benchmark 4: Candidates will complete the edTPA during the first placement of Student Teaching
 Satisfy all requirements for Tennessee Teacher Certification Graduate from the Teacher Educator Preparation Program

Name: _____ Phone: _____

Advisor: _____

Approved: _____
 Department Chair _____ Date: _____

MAJOR COURSE DESCRIPTION

PER 338: Introduction to Recreation* 3 Credits

This course covers the history and philosophy of the recreation and parks movement. It will include the foundations of recreation and the basic concepts underlying the organization of leisure and recreation activity.

PER 223: Elementary Games 2 Credits

Presents methods and materials in teaching physical fitness, sports, rhythmic movement, singing, running, and story-telling games in the lower grades. Recognition of skills appropriate for age level.

Prerequisite: EDU 230 Offered: F (A)

PER 339: Methods of Teaching Physical Education 3 Credits

Emphasizes health and physical education activities differentiated according to capacities, needs, interest, and development of pupils; study and evaluation of current methods and units of course material; development of program goals, program design, and management techniques.

Prerequisites: EDU 230 and PER 231. Offered: F (A)

A EDU 230: Foundations of Education 3 Credits

survey of the development of education through the various stages of civilization. A study of organizational structure, issues, practices, and trends and their relation to basic philosophical concepts and historical development; also the principles underlying modern education, including, ethical and legal considerations, and the relationship of the school to the community. This course is a prerequisite for all education course work and admittance to the Teacher Education program.

Prerequisite: ENG 131. Offered: F/S (A)

EDU 330: Classroom Management 3 Credits

An integrated learning experience dealing with the major problems, issues, and innovations in the classroom. Emphasis placed on effective communication, and management and control of student activities in self-contained classrooms as well as in secondary classes. Strategies for developing pupils study habits, self-control, and self-discipline. Prerequisite: EDU 230. Offered: F/S (A)

EDU 420: Education Seminar 2 Credits

This course will be taught in conjunction with EDU- 430 Enhanced Student Teaching. Focus on application and analysis of teaching knowledge in the classroom. No other courses may be taken during the semester of student teaching.

Prerequisite: Completion of all requirements except student teaching.

EDU 430: Enhanced Student Teaching* 10 Credits

A comprehensive course under close supervision in which the student teacher learns to foster student/teacher relationships and to demonstrate mastery of instructional techniques and materials. Prerequisites: EDU 420

PSY 330: The Exceptional Learner 3 Credits

A survey course with an overview of the field of special education, including the historical perspective of the field. Emphasis is placed on the characteristics and education of children and growth in each area of exceptionality.

Prerequisite: PSY 131. Offered: F (A)

**Bachelor of Science in Interdisciplinary Study
History Education
Four Year Degree Plan – Total Credits: 124**

General Education Core			
ART	120	Art Appreciation	2
MUS	120	Music Appreciation	2
ORN	110	Orientation	1
EDU	231	Technology for Educators	3
FIN	150	Personal Finance	2
SPC	230	Foundations of Speech	3
REL	130	World Religions	3
REL	231	History of the Black Church	3
HIS	231	World History I	3
ENG	131	Composition I	3
ENG	132	Composition II	3
ENG	221	Intro to Literature	3
MAT	125	Algebra I	3
MAT	126	Algebra II	3
BIO	143	Science in Education	3
PHY	131	Physical Science	3
FRE/SPN	131	French/Spanish I	3
FRE/SPN	132	French/Spanish II	3
PER		Activity	1
PER		Activity	1
TOTAL GENERAL EDUCATION CORE			51
PROFESSIONAL CORE (29 hours)			
PSY	131	Educational Psychology	3
PSY	330	Exceptional Learner	3
EDU	230	Foundation of Education	3
EDU	232	Curriculum Instruction	3
EDU	330	Classroom Management	2
EDU	420	Student Teaching Seminar	3
EDU	430	Enhanced Student Teaching	9
EDU	435	Education Certification	3
TOTAL PROFESSIONAL CORE			29
HIS MAJOR CORE (43 hours)			
GEO	231	World Geography	3
HIS	131	US History I	3
HIS	132	US History II	3
HIS	232	World History II	3
HIS	331	Black History I	3
HIS	332	Black History II	3
HIS	335	African History	3
HIS	337	Twentieth Century Europe	3
HIS	430	Research Seminar	3
HIS	111	Special Topics	1
HIS		History Elective	3
HIS		History Elective	3

TOTAL HISTORY MAJOR CORE 3

COURSE DESCRIPTION

HIS 111,211, 311,411: Special Topics in History 1 Credit

Designed to promote academic excellence through the intense study of history, science, literature, religion, the arts, social sciences, popular culture, and particularly African American history and culture. Prerequisite: Consent of Instructor.

HIS 131: U.S. History I 3 Credits

A survey of American history from the Age of Discovery to the Civil War Reconstruction Period. Offered: F (A)

HIS 132: U.S. History II 3 Credits

A survey of American history from the period of Reconstruction to the Modern Era. Prerequisite: HIS 131. Offered: S (A)

HIS 230: Tennessee History* 3 Credits

Special emphasis is given to the political, social, economic, and educational developments of the State of Tennessee from its early beginnings to the present. Prerequisite: ENG 132, HIS 132.

HIS 231: World History I 3 Credits

An introductory survey of world history from earliest civilizations, which places equal emphasis on the development of different world regions, including China, India, Africa, Europe, and the Middle East. Offered: F (A)

HIS 232: World History II 3 Credits

A survey of the modern world which places equal emphasis on the history and development of different regions, including China, India, Africa, Europe, the Americas, and the Middle East, with special emphasis on colonialism and imperialism. Prerequisite: HIS 231. Offered: S (A)

HIS 233: The Harlem Renaissance 3 Credits

This course focuses on the historical origins and artistic output associated with the New Negro or Harlem Renaissance. Special attention will be paid to the twentieth century Great Migration and reconstruction of black identity, and the impact of the Harlem Renaissance on American culture. Prerequisite: HIS 132 or consent of Instructor.

HIS 234: History of Women 3 Credits

This course deals with women's experience in world civilizations from earliest times to the present. The differing experiences of women based on class, race, and ethnicity will be a core of the course. Women's political, socio-cultural, and economic contributions will also be addressed. Prerequisite: HIS 232 or consent of Instructor.

HIS 331/332: Black History I and II 3 Credits

A survey of the history of Black Americans from the period of slavery to the present. Offered: F/S (A)

HIS 333: The Civil Rights Movement 3 Credits

This course examines the structure and dynamics of the African American Civil Rights Movement in the United States from the 1954 Brown vs. Board of Education Supreme Court decision to the Black Power Movement of the 1970s. Prerequisite: HIS 132 or consent of the Instructor.

HIS 334: History of Latin America and the Caribbean 3 Credits

This is a survey course in Latin American and Caribbean history from the first human settlement to modern times. It places special emphasis on European imperialism, the slave plantation system and the challenges of the post-emancipation and independence periods. Prerequisite: HIS 232 or consent of the Instructor.

HIS 335: African History* 3 Credits

A survey of African history and civilization from earliest times to the present. Prerequisite: HIS 231 or consent of Instructor.

HIS 336: Methods of Teaching Social Sciences 3 Credits

Fundamental considerations in teaching social studies, with emphasis on selection, evaluation, organization, and presentation of materials. Focus also on use of technology in the creation of teaching materials and delivery methods in the social sciences classroom. Prerequisite: EDU 230. Offered: Spring (A)

HIS 337: Twentieth Century Europe* 3 Credits

A survey of the history, politics, and social climate of Europe since World War I. Prerequisite: HIS 232.

HIS 338: Twentieth Century Asia* 3 Credits

A survey of the history, politics, and social climate of Asia since World War I. Prerequisite: HIS 232.

HIS 430: Research Seminar* 3 Credits

Each major is required to present a well-organized documented research project on a subject of this/her choice as a fulfillment for one of the requirements for a major. Prerequisite: Senior status and History major.

HIS 431: History of the African Diaspora 3 Credits

This course is concerned with the dispersal of Africans that started in the 17th century with the forceful capture and transfer of the enslaved to the Middle East, Europe and the Americas, and their ongoing resistant responses to oppression. Prerequisite: HIS 132 or consent of Instructor.

HIS 432: Black Historiography 3 Credits

This course is designed to introduce students to the history of black historical writing. Students will study important contributions to the field by pioneers such as Carter G. Woodson and W.E. B. Du Bois, and explore seminal works and socio-political perspectives advanced by major black scholars.

Prerequisite: HIS 132 or consent of Instructor.

HIS 433: Topics in American History 3 Credits

This course will allow for topically based instruction contingent upon student interest in American history, and upon faculty expertise.

Prerequisite: HIS 132 or consent of Instructor.

HIS 434: Topics in World History 3 Credits

This course will allow for topically based instruction contingent upon student interest in world history, and upon faculty expertise.

Prerequisite: HIS 232 or consent of Instructor

**Bachelor of Science in Interdisciplinary Study
Math Education
Four Year Degree Plan – Total Credits: 127**

General Education Core

(45 hours in addition to 6 hours of History)

ORN	110	Orientation	1
CSC	132	Foundations of Computing	3
FIN	150	Personal Finance	2
SPC	230	Foundations of Speech	3
REL	130	World Religions	3
REL	231	History of the Black Church	3
ENG	131	Composition I	3
ENG	132	Composition II	3
ENG	221	Intro to Literature	3
HIS	231	World History I	3
HIS	232	World History II	3
MAT	125	Algebra I	3
MAT	126	Algebra II	3
MAT	140	College Trigonometry	3
ART	120	Art Appreciation	2
MUS	120	Music Appreciation	2
FRE/SPN	131	French/Spanish I	3
FRE/SPN	132	French/Spanish II	3
PER		Activity	1
PER		Activity	1

TOTAL GENERAL EDUCATION CORE 51

PROFESSIONAL CORE (37 hours)

PSY	131	Educational Psychology	3
PSY	330	Exceptional Learner	3
EDU	230	Foundation of Education	3
EDU	231	Technology for Education	3
EDU	232	Curriculum Instruction	3
EDU	330	Classroom Management	2
EDU	332	Tests and Measurements	2
EDU	340	Multicultural Settings	3
EDU	420	Student Teaching Seminar	3
EDU	430	Enhanced Student Teaching	9
EDU	435	Education Certification	3

TOTAL PROFESSIONAL CORE 37

MATH MAJOR CORE (39 hours)

MAT	230	Discrete Mathematics	3
MAT	233	Probability and Statistics	3
MAT	240	Calculus I	4
MAT	241	Calculus II	4

MAT	242	Linear Algebra	3
MAT	331	Methods of Teaching Secondary Math	3
MAT	335	Abstract Algebra	3
MAT	340	Calculus III	4
MAT	341	Differential Equations	4
PHY	241/L	Physics I/Lab	4
PHY	242/L	Physics II/Lab	4

TOTAL MATH MAJOR CORE 39

MAJOR COURSE DESCRIPTION

MAT 125: Algebra I 3 Credits

Starting with properties of exponents and culminating with a thorough study of exponential and logarithmic functions, this course will provide the necessary foundational algebraic skills for success in the Calculus sequence. Other major topics include linear equations, system of linear equations, quadratic equations, circles, inverse functions, and transformations of graphs.

Offered: F/S (A)

MAT 126: Algebra II 3 credits

Beginning with quadratic functions and their graphs, this course introduces students to matrix algebra and linear equations. It contains a brief analysis of conic sections and matrix and linear systems. Algebra II (MAT 126) is continuation of MAT 125. Prerequisite: Grade of "C" or better in MAT 125. Offered: F/S (A)

MAT 140: College Trigonometry 3 Credits

A basic course in trigonometry ranging from measurement of angles to the study of complex numbers on the plane. This course will provide the necessary trigonometric background for success in the Calculus sequence. Other major topics include right triangle relationships, trigonometry on the unit circle, solving trigonometric equations, trigonometric identities, and inverse trigonometric functions. Prerequisite: Grade of "C" or better in MAT 126, or consent of instructor. Offered: F/S (A)

MAT 230: Discrete Mathematics 3 Credits

A study of logic, sets, relations, Boolean algebra, graph theory, and trees. Prerequisites: A minimum grade of "C" in MAT 125/126 or consent of the instructor. Offered: S (A)

MAT 233: Probability and Statistics 3 Credits

Basic statistical concepts, elementary probability theory, probability distribution, sampling and sampling distributions, expected values, correlation and regression analysis, tests of hypothesis, and statistical inferences and interpretation of tabular reports. Prerequisite: MAT 125/126.

Offered: F/S (A)

MAT 240: Calculus I 4 Credits

This first course in calculus reviews the Cartesian plane and functions, and introduces limits, continuity, differentiation and integration. Offered: F/S (A)

MAT 241: Calculus II 4 Credits

This second course in calculus provides application of differentiation and integration to min-max problems, volumes and areas; extends integration and differentiation to logarithmic, exponential and trigonometric functions; and introduces some integration techniques. Prerequisite: A minimum grade of "C" in MAT 240. Offered: F/S (A)

MAT 242: Linear Algebra 3 Credits

An introduction to basic operations with matrices, vectors, and linear equations including vector spaces, scalar and vector products, spaces of dimensions, linear transformations, bilinear and quadratic forms and infinite series of matrices. Prerequisite: Minimum grade of "C" in MAT 140. Offered: Spring (O)

MAT 331: Methods of Teaching Secondary Math (7-12) 3 Credits

Designed for students who plan to certify in secondary education. Focus on methods, materials, the use of technology in those methods and materials, and concerns related to the subject area. Prerequisites: EDU 230, PSY 131, and 12 hours of mathematics. Offered: S (A)

MAT 335: Abstract Algebra 3 Credits

Consideration of fundamental mathematical systems and concepts of modern algebra, including the well ordering principle, integral domains, groups, rings, fields, and methods of congruence. Prerequisite: Minimum grade of "C" in MAT 241. Offered: F (O)

MAT 340: Calculus III 4 Credits

Indefinite series and approximate computation, partial derivatives and differentiation with applications, multiple integration, and differential equations. Prerequisite: A minimum grade "C" in MAT 241. Offered: F (O)

MAT 341: Differential Equations 4 Credits

Classification and solution of common types of elementary differential equations including methods and solutions of ordinary differential equations of first order, and of higher orders with emphasis upon geometrical and physical applications. Prerequisite: A minimum grade of "C" in MAT 241. Offered: S (E)

**Bachelor of Science in Interdisciplinary Study
Physics Education
Four Year Degree Plan – Total Credits: 124**

General Education Core

(41 hours in addition to 6 hours of History)

ORN	110	Orientation	1
CSC	132	Foundations of Computing	3
FIN	150	Personal Finance	2
SPC	230	Foundations of Speech	3
REL	130	World Religions	3
ENG	131	Composition I	3
ENG	132	Composition II	3
ENG	221	Intro to Literature	3
HIS	131	US History I	3
HIS	132	US History II	3
MAT	125	Algebra I	3
MAT	126	Algebra II	3
MAT	140	College Trigonometry	3
ART	120	Art Appreciation	2
MUS	120	Music Appreciation	2
FRE/SPN	131	French/Spanish I	3
FRE/SPN	132	French/Spanish II	3
PER		Activity	1

TOTAL GENERAL EDUCATION CORE 47

PROFESSIONAL CORE (37 hours)

PSY	131	Educational Psychology	3
PSY	330	Exceptional Learner	3
EDU	230	Foundation of Education	3
EDU	231	Technology for Education	3
EDU	232	Curriculum Instruction	3
EDU	330	Classroom Management	2
EDU	340	Multicultural Settings	3
EDU	420	Student Teaching Seminar	3
EDU	430	Enhanced Student Teaching	9
EDU	435	Education Certification	3

TOTAL PROFESSIONAL CORE 35

PHYSICS MAJOR CORE (39 hours)

MAT	240	Calculus I	4
MAT	241	Calculus II	4
MAT	242	Linear Algebra	3
MAT	301	Math Methods of Physics	3
MAT	341	Differential Equations	4
PHY	241/L	Physics I/Lab	4
PHY	242/L	Physics II/Lab	4
PHY	241	Modern Physics	4
PHY	331	Classical Mechanics	3
PHY	345	Electromagnetism	3
PHY		Physics Electives	6

TOTAL PHYSICS MAJOR CORE 42

**Bachelor of Science Degree in Interdisciplinary Studies
Physics Education
Four Year Degree Plan – Total Credits: 124**

First Year Freshman	First Semester				Second Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	ORN	110	Orientation	1	MAT	126	Algebra II	3
	MAT	125	Algebra I	3	ENG	132	Composition II	3
	ENG	131	Composition I	3	REL	130	World Religions	3
	CSC	132	Foundations of Computing	3	FRE/SPN	132	French/Spanish II	3
	FRE/SPN	131	French/Spanish I	3				
			Total	13			Total	12
Benchmark 0: Entry into the College: Identifying Freshman Students as Education Majors								

Summer	Session I				Session II			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	MAT	140	Trigonometry	3	MAT	240	Calculus I	4
			Total	3			Total	4
Benchmark 0: Entry into the College: Identifying Freshman Students as Education Majors								

Second Year Sophomore	Third Semester				Fourth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	MUS	120	Music Appreciation	2	PSY	131	Educ. Psychology	3
	PHY	301	Math Methods of Physics	3	PHY	242	Physics II	4
	EDU	230	Foundations of Education	3	FIN	150	Personal Finance Mgt.	2
	PHY	241	Physics I	4	MAT	341	Differential Equations	4
	MAT	241	Calculus II	4	MAT	242	Linear Algebra	3
			Total	16			Total	16
Benchmark 1: Before the end of Fourth Semester, candidate should: • Be admitted to the Educator Preparation Program.								

Third Year Junior	Fifth Semester				Sixth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	SPC	131	Foundations of Speech	3	BIO	331	Methods of Teaching Natural Science	3
	HIS	131	US History I	3	EDU	231	Technology for Education	3
	PHY	251	Modern Physics	4	PHY	345	Electromagnetism	3
	ENG	221	Intro to Literature	3			Major electives	6
	PHY	331	Classical Mechanics	3	PER		Activity	1
			Total	16			Total	16
Benchmark 2: Admission into EPP Benchmark 3: Content/Field-Based Course								

Fourth Year Senior	Seventh Semester				Eighth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	PSY	330	Exceptional Learner	3	EDU	420	Student Teaching Sem	3
	EDU	330	Classroom Mgt.	2	EDU	430	Enhanced St. Teaching	9
	EDU	232	Curriculum & Instruct	3				
	EDU	435	Education Certification	3				
	ART	120	Art Appreciation	2				
	HIS	132	US History II	3				
		Total	16			Total	12	
Benchmark 4: Candidates will complete the edTPA during the first placement of Student Teaching Satisfy all requirements for Tennessee Teacher Certification Graduate from the Teacher Educator Preparation Program								

Name: _____ Phone: _____

Advisor: _____

Approved: _____
Department Chair _____ Date: _____

Physics Education Concentration

BIO 331: Methods of Teaching Natural Science 3 Credits

Designed for students who plan to certify in secondary education. Focus on methods, materials, use of technology in creating and using those materials, and concerns related to one of the sciences. **Prerequisites: EDU 230, PSY 131 and 16 hours of science. Offered: S(A)**

CSC 132: Foundations of Computing 3 Credits

This course provides an overview of the many disciplines within computer science, including data representation of text, numbers, audio, and images; computer hardware and software, including operating systems and programming languages; and data organization within databases. This course reviews critical concepts to better prepare CSC, MAT, and PHY majors as they continue their studies in programming and other areas of computer science. **Offered: F/S (A)**

EDU 230: Foundations of Education 3 Credits

A survey of the development of education through the various stages of civilization. A study of organizational structure, issues, practices, and trends and their relation to basic philosophical concepts and historical development; also the principles underlying modern education, including ethical and legal considerations, and the relationship of the school to the community. This course is a prerequisite for all education course work and admittance to the Teacher Education program. **Prerequisite: ENG 131. Offered: F/S (A)**

EDU231 Technology for Educators 3 Credits

Focuses on media and specific technologies appropriate to teachers in the educational setting, both for instructional purposes and administrative tasks. It includes exposure to and use of various equipment, materials, and software, including Internet and Microsoft Office. Computer-assisted instruction and management techniques are presented.

EDU232 Elementary Curriculum & Instruction 3 Credits

Focuses on effective instructional methods and curriculum models for K-5 teachers. Common Core Standards and best practices in creating enthusiastic learning environments and writing learning plans are explored. Using data to inform instruction is addressed as part of the planning component. A 20-hour field experience is required.

EDU 330: Classroom Management 3 Credits

An integrated learning experience dealing with the major problems, issues, and innovations in the classroom. Emphasis placed on effective communication, and management and control of student activities in self-contained classrooms as well as in secondary classes. Strategies for developing pupils study habits, self-control, and self-discipline. **Prerequisite: EDU 230. Offered: F/S (A)**

EDU 420: Education Seminar 2 Credits

This course will be taught in conjunction with EDU 430 Enhanced Student Teaching. Focus on application and analysis of teaching knowledge in the classroom. No other courses may be taken

during the semester of student teaching. **Prerequisite: Completion of all requirements except student teaching.**

EDU 430: Enhanced Student Teaching* 10 Credits

A comprehensive course under close supervision in which the student teacher learns to foster student/teacher relationships and to demonstrate mastery of instructional techniques and materials. **Co-requisite: EDU 420.**

EDU 435 Education Certification 3 Credits

Education certification course is designed to prepare students for success on the Tennessee Licensure exam and the development of the edTPA portfolio. This course will offer content lecture, test-taking strategies, and timed practice tests.

MAT 140: College Trigonometry 3 Credits

A basic course in trigonometry ranging from measurement of angles to the study of complex numbers on the plane. This course will provide the necessary trigonometric background for success in the Calculus sequence. Other major topics include right triangle relationships, trigonometry on the unit circle, solving trigonometric equations, trigonometric identities, and inverse trigonometric functions. **Prerequisite: Grade of “C” or better in MAT 126, or consent of instructor. Offered: F/S (A)**

MAT 240: Calculus I 4 Credits

This first course in calculus reviews the Cartesian plane and functions, and introduces limits, continuity, differentiation and integration. **Prerequisite: A minimum grade of “C” or better in MAT 140. Offered: F/S (A)**

MAT 241: Calculus II 4 Credits

This second course in calculus provides application of differentiation and integration to min-max problems, volumes and areas; extends integration and differentiation to logarithmic, exponential and trigonometric functions; and introduces some integration techniques. **Prerequisite: A minimum grade of “C” in MAT 240. Offered: S (A)**

MAT 242: Linear Algebra 3 Credits

An introduction to basic operations with matrices, vectors, and linear equations; including: vector spaces, scalar and vector products, spaces of dimensions, linear transformations, bilinear and quadratic forms and infinite series of matrices. **Prerequisite: Minimum grade of “C” in MAT 140. Offered: Spring (O)**

MAT 341: Differential Equations 4 Credits

Classification and solution of common types of elementary differential equations including methods and solutions of ordinary differential equations of first order, and of higher orders with emphasis upon geometrical and physical applications. **Prerequisite: A minimum grade of “C” in MAT 241. Offered: S (E)**

PHY 241: Physics I 4 Credits

The classical physics topics of motion, forces, momentum, energy, waves, and thermal physics

will be studied through the use of basic problem-solving skills, algebra, and laboratory experiences. Three lectures and one laboratory experience per week. **Prerequisite: MAT 140. Offered: F (A)**

PHY 242: Physics II 4 Credits

In classical physics, topics of electromagnetism, circuits, and optics will be studied, and the modern physics topics of relativity, quantum mechanics and the atom will be introduced. Problem solving and laboratory skills will continue to be stressed. Three lectures and one laboratory experience per week. **Prerequisite: Grade of “C” or better in PHY 241. Offered: S (A)**

PHY 251: Modern Physics 4 Credits

Major topics covered in this course are relativity, quantum theory of light, particle nature of matter, and an introduction to quantum mechanics, solid state physics, and nuclear physics. Three lectures and one laboratory experience per week. **Prerequisite: PHY 242. Offered: F (A)**

PHY 301: Math Methods of Physics 3 Credits

An introduction to advanced techniques of applied mathematics used in Physics and Chemistry, including applied linear algebra, ordinary differential equations, and Laplace’s Transforms. **Prerequisite: MAT 240. Offered: F (A)**

PHY 331: Classical Mechanics 3 Credits

This course will cover statics and dynamics of particles and rigid bodies, Lagrange’s and Hamilton’s equations, fluid statics, and vibrations. **Prerequisites: PHY 242 and PHY 301, or consent of the instructor. Offered: F (A)**

**PHY 345: Electromagnetism
3 Credits**

The major topics covered in this course are vector analysis, electrostatic and magneto static fields, Maxwell’s equations, and uniform plane wave propagation. **Prerequisite: PHY 242 and PHY 301. Offered: S (A)**

PSY 131: Educational Psychology 3 Credits

The study of psychological principles of learning and evaluation of learning from pre-school through high school age. Emphasis is upon developing a model for teaching and the application of theory to the classroom. Attention is given to educational research materials and techniques. **Prerequisite: EDU 230. Offered: S (A)**

PSY 330: The Exceptional Learner 3 Credits

A survey course with an overview of the field of special education, including the historical perspective of the field. Emphasis is placed on the characteristics and education of children and growth in each area of exceptionality. **Prerequisite: PSY 131. Offered: F (A)**

**Bachelor of Science in Interdisciplinary Study
Biology Education
Four Year Degree Plan – Total Credits: 124**

General Education Core

ORN	110	Orientation	1
EDU	231	Technology for Educators	3
FIN	150	Personal Finance	2
SPC	230	Foundations of Speech	3
REL	130	World Religions	3
REL	231	History of the Black Church	3
ENG	131	Composition I	3
ENG	132	Composition II	3
ENG	221	Intro to Literature	3
HIS	131	U.S. History I	3
HIS	132	U.S. History II	3
MAT	125/126	Algebra I/ II	6
MAT	140	Trigonometry	3
BIO	141/142	General Biology I and II	8
CHE	141/142	General Chemistry I and II	8
FRE/SPN	131	French/Spanish I	3
FRE/SPN	132	French/Spanish II	3
ART	120	Art Appreciation	2
MUS	120	Music Appreciation	2
PER		Activity	1
PER		Activity	1
TOTAL GENERAL EDUCATION CORE			67

PROFESSIONAL CORE (29 hours)

PSY	131	Educational Psychology	3
PSY	330	Exceptional Learner	3
EDU	230	Foundation of Education	3
EDU	232	Curriculum Instruction	3
EDU	330	Classroom Management	2
EDU	420	Student Teaching Seminar	3
BIO	331	Teaching Natural Science	3
EDU	430	Enhanced Student Teaching	9
EDU	435	Education Certification	3
TOTAL PROFESSIONAL CORE			32

BIOLOGY MAJOR CORE (hours)

BIO	331	Teaching Natural Science	3
BIO	341	Ecology and Environmental Biology	4
BIO	343	Genetics	4
BIO	xxx	upper division BIO elective	4
CHE	110	Scientific Literacy and Problem Solving	1
PHY	241	College Physics I and II	8
XXX	XXX	General Elective	4
TOTAL Biology MAJOR CORE			25

**Bachelor of Science Degree in Interdisciplinary Studies
Biology
Four Year Degree Plan – Total Credits: 124**

First Year Freshman	First Semester				Second Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	ORN	110	Orientation	1	MAT	126	Algebra II	3
	MAT	125	Algebra I	3	ENG	132	Composition II	3
	ENG	131	Composition I	3	BIO	142	General Biology II	4
	BIO	141	General Biology I	4	HIS	132	U.S. History II	3
	HIS	131	U.S. History I	3	ART	120	Art Appreciation	2
	MUS	120	Music Appreciation	2	PER		Activity	1
			Total	16			Total	16
	Benchmark 0: <i>Entry into the College: Identifying Freshman Students as Education Majors</i>							

Second Year Sophomore	Third Semester				Fourth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	MAT	230	Trigonometry	3	REL	231	History of Black Church	3
	FRE/SP N	131	French/Spanish I	3	Spn/ Fre	132	Spanish/ French IIn	3
	ENG	221	Intro to Literature	3	PSY	131	Educ. Psychology	3
	EDU	230	Foundations of Edu	3	EDU	231	Technology for Educ	3
	CHE	141	General Chemistry I	4	CHE	142	General Chemistry II	4
	CHE	110	Scientific Literacy and Problem Solving	1	PER	XXX	Activity	1
			Total	17			Total	17
	Benchmark 1: <i>Before the end of Fourth Semester, candidate should:</i> <ul style="list-style-type: none"> • Be admitted to the Educator Preparation Program. 							

Third Year Junior	Fifth Semester				Sixth Semester			
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs
	BIO	341	Ecology and Environmental Bio	4	BIO	343	Genetics	4
	BIO	XXX	Elective	4	BIO	331	Methods of Teaching Natural Science	3
	SPC	230	Foundations of Speech	3	PHY	242	College Physics II	4
	PHY	241	College Physics I	4	FIN	150	Personal Financial Management	2
					REL	130	World Religions	3
			Total	15			Total	16
	Benchmark 2: <i>Admission into EPP</i>				Benchmark 3: <i>Content/Field-Based Course</i>			

Fourth Year Senior	Seventh Semester				Eighth Semester				
	Dept	Num	Course	Hrs	Dept	Num	Course	Hrs	
	PSY	330	Exceptional Learner	3	EDU	420	Student Teaching Sem	3	
	EDU	330	Classroom Mgt.	2	EDU	430	Enhanced St. Teaching	9	
	EDU	232	Curriculum & Instruct	3					
	EDU	435	Education Certification	3					
			Elective	4					
			Total	15			Total	12	
	Benchmark 4: <i>Candidates will complete the edTPA during the first placement of Student Teaching</i> Satisfy all requirements for Tennessee Teacher Certification Graduate from the Teacher Educator Preparation Program								

Name: _____ Phone: _____

Advisor: _____

Approved: _____
 Department Chair _____ Date: _____

MAJOR COURSE DESCRIPTION

BIO 141/142: General Biology I, II

4 Credits

A study of the fundamental principles of biology, followed by a survey of the animal and plant kingdoms. Emphasis is on the chemical basis of life, morphology, physiology and reproduction. The two semesters must be taken in sequence. Three lectures and one laboratory experience per week. **Offered: F/S**

BIO 331: Methods of Teaching Natural Science 3 Credits

Designed for students who plan to certify in secondary education. Focus on methods, materials, use of technology in creating and using those materials, and concerns related to one of the sciences.

Prerequisites: EDU 230, PSY 131 and 16 hours of science. Offered: S

BIO 341: Ecology and Environmental Biology

4 Credits

A study of the environment from the ecological point of view, showing the inter-relations of organisms to their environment, both physical and biological. Four lectures per week.

Prerequisite: BIO 131 or BIO 142. Offered: F

BIO 343: Genetics

4 Credits

A study of the fundamental principles of heredity, with emphasis on Mendelian genetics, Genetics of sex and recent developments in the field. Three lectures and one laboratory experience per week. **Prerequisites: BIO 141 and BIO 142. Offered: S**

CHE110: Scientific Literacy and Critical Problem Solving

1 Credit

The course will provide a student with understanding of how to navigate scientific problems. The course will especially focus on assisting the student in learning how to sort, organize and group information so that it can be easily interpreted into a focused approach which will include steps to solve problems as well as attaining justifiable answers to such problems. The course will also encourage critical thinking skills, emboldening the student to think independently under both broad and restricted conditions. Students who successfully complete this course should have a renewed confidence in their approach to scientific problems as well as future science courses.

Co-requisite CHE 141. Offered F/S (A)

CHE 141: General Chemistry I

4 Credits

A systematic treatment of the fundamental chemical principles and theories, and their application, with particular reference to atomic and molecular theories, laws of chemical combination, periodic classification of the elements, properties of gases, liquids, solids, and solutions. Three lectures and one laboratory experience per week. **Co-requisites: MAT 125/126. Offered: Fall (A)**

CHE 142: General Chemistry II 4 Credits

A continuation of CHE 141, which includes thermo-chemistry, changes of state, chemical kinetics, chemical equilibrium, electrochemistry, and a brief introduction to organic chemistry. Three lectures and one laboratory experience per week. **Prerequisite: CHE 141. Offered: S (A)**

EDU 230: Foundations of Education 3 Credits

A survey of the development of education through the various stages of civilization. A study of organizational structure, issues, practices, and trends and their relation to basic philosophical concepts and historical development; also the principles underlying modern education, including, ethical and legal considerations, and the relationship of the school to the community. This course is a prerequisite for all education course work and admittance to the Teacher Education program. Prerequisite: ENG 131. Offered: F/S (A)

EDU 330: Classroom Management 3 Credits

An integrated learning experience dealing with the major problems, issues, and innovations in the classroom. Emphasis placed on effective communication, and management and control of student activities in self-contained classrooms as well as in secondary classes. Strategies for developing pupils study habits, self-control, and self-discipline. Prerequisite: EDU 230. Offered: F/S (A)

EDU 420: Education Seminar 2 Credits

This course will be taught in conjunction with EDU- 430 Enhanced Student Teaching. Focus on application and analysis of teaching knowledge in the classroom. No other courses may be taken during the semester of student teaching. Prerequisite: Completion of all requirements except student teaching.

EDU 430: Enhanced Student Teaching* 10 Credits

A comprehensive course under close supervision in which the student teacher learns to foster student/teacher relationships and to demonstrate mastery of instructional techniques and materials. Prerequisites: EDU 420

MAT 140: College Trigonometry 3 Credits

A basic course in trigonometry ranging from measurement of angles to the study of complex numbers on the plane. This course will provide the necessary trigonometric background for success in the Calculus sequence. Other major topics include right triangle relationships, trigonometry on the unit circle, solving trigonometric equations, trigonometric identities, and inverse trigonometric functions. Prerequisite: Grade of "C" or better in MAT 126, or consent of instructor. Offered: F/S (A)

PHY 241: Physics I 4 Credits

The classical physics topics of motion, energy and thermodynamics will be studied through the use of basic problem solving skills, algebra, and laboratory experiences. Three lectures and one laboratory experience per week. **Prerequisite: MAT 140. Offered: F (A)**

PHY 242: Physics II 4 Credits

In classical physics, topics of electromagnetism and optics will be studied, and the modern physics topics of relativity, quantum mechanics and the atom will be introduced. Problem solving and laboratory skills will continue to be stressed. Three lectures and one laboratory experience per week. **Prerequisite: Grade of “C” or better in PHY 241. Offered: S (A)**

PSY 131: Educational Psychology 3 Credits

The study of psychological principles of learning and evaluation of learning from pre-school through high school age. Emphasis is upon developing a model for teaching and the application of theory to the classroom. Attention is given to educational research materials and techniques.

Prerequisite: EDU 230. Offered: S (A)

PSY 330: The Exceptional Learner 3 Credits

A survey course with an overview of the field of special education, including the historical perspective of the field. Emphasis is placed on the characteristics and education of children and growth in each area of exceptionality.

Prerequisite: PS Y 131. Offered: F

Program Alignment to the InTASC Standards (See Chart Below)

The included InTASC Standards spreadsheet provides a standardized tool for EPPs to show how SAPs that require the 10 InTASC Standards align to the standards. For each SAP that requires the InTASC Standards, complete the worksheet for each standard. The spreadsheet should identify key assessments used in verifying candidate acquisition of each of the InTASC standards.

The text of each standard is provided across the top of each worksheet. Below each standard there are column headings (A, B, C, etc.). Under these headings, items should be inserted that address or respond to the respective standard. The columns are:

- A. **Program Course/Content (number and/or title of course/content, as appropriate)**
 - This column should include content of the program of study for candidates. The program of study may include traditional courses, seminars, modules, training sessions, etc.
- B. **Clinical Experiences**
 - Field Experiences - practice opportunities beyond the job-embedded assignment to apply content and pedagogical knowledge in school settings to progressively develop and demonstrate knowledge, skills, and dispositions (see below Section 5, item 3).
 - Clinical Practice - opportunities that provide candidates with an intensive and extensive culminating field-based set of responsibilities, assignments, tasks, activities, and assessments that demonstrate candidates' progressive development of the professional knowledge, skills, and dispositions to be effective educators.
- C. **Other Method(s)**

Any EPP-developed or recognized mechanism(s) or event(s) that supports candidate opportunities to become aware of, learn, and/or demonstrate content that aligns with standards (e.g., attendance/participation in meetings, presentations at professional conferences, research projects, etc.).
- D. **Key Assessment(s)**

As part of its candidate assessment system, the primary formative and/or summative assessments that the EPP uses to verify candidate progress in acquiring and mastering the respective standards. Each standard should include at least one key assessment. A key assessment may be listed for more than one standard.

Note: Multiple standards may be addressed by the same item (e.g., course, clinical experience, other method) in the spreadsheet. For example, one course may be listed to address more than one standard in the spreadsheet. Key assessments may also be applicable to multiple standards. With the exception of column D, it may not be necessary to include an item in each column. For example, a standard may have a course number and title listed in column A with no information listed in columns B or C.

Specialty Area Standards Alignment

For each SAP that requires a program alignment to specialty area standards, the required specialty area standards alignment must be submitted on an alignment spreadsheet compiled by the EPP (see Policy 5.550 for required specialty area standards). A similar spreadsheet as provided for the InTASC Standards must be provided where the program content is aligned to the specialty area standards. If additional guidance is needed for the documenting the alignment of the SAPs to the respective specialty area standards, contact the OELP as indicated.

EPP Response: Table 1 indicates courses in the secondary program, credit hours, field experience hours and assessments. Table 2 indicates the program of study alignment to program outcomes based on conceptual framework, state standards, InTASC, State Literacy Standards and CAEP standards. Table 3 indicates K-5 Elementary and Secondary Program Associations. Table 4 indicates EPP Major Required Courses Aligned to National Standards. Table 5 indicates relationship between CF Outcomes to CAEP Standards and table 6 indicates the EPP CF Learning Outcomes and Professional Standards Alignment Chart

