

B.A./B.S. - Secondary Education

B.A./B.S. Secondary Education

The BA/BS Secondary Education degree prepares preservice teachers to teach in middle and high school. The program will allow our students to focus on a specific teaching certification area, while learning best instructional practices and pedagogy. Throughout the program students will engage in field based experiences and content specific pedagogy. In the final year of the program students will experience a full-year of clinical teaching.

Required Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required Courses in the Major

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Enrollment in certain courses requires admission to the Educator Preparation Program (EPP).

EDCI 1301	Introduction to the Teaching Profession	3
EDCI 214	Learner Development	3
EDCI 380	Content Area Literacy	3
EDCI 412	Supporting Students K-12 with Emphasis on Emergent Bilinguals	3
SED 210	Foundations of Secondary Education	3
SED 331	Instructional Design	3
SED 332	Creating an Engaging Environment	3
SPED 346	Survey of Exceptionalities	3
or HHPK 302	Adapted Physical Education	

Required Clinical Teaching Courses

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Enrollment in Clinical Teaching courses requires admission to the Educator Preparation Program (EPP).

Students must apply for Clinical Teaching in the Fall or Spring semester prior to their Clinical Teaching I semester.

Clinical Teaching I Courses

SED 400	Issues of Professionalism	3
SED 401	Clinical Teaching I	3

Clinical Teaching II Courses

SED 404	Clinical Teaching II	6
SED 405	Advanced Issues of Professionalism	6

Required Second Major or Emphasis 36-43

Total Hours 120-127

Within this degree you may choose from the following specializations or double majors:

English, Language Arts, and Reading (4-8) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Support Courses

MATH 1314	College Algebra *	
PSY 310	Psychology of Various Populations	3

Required English, Language Arts, and Reading Courses

Any-Level ENG Course Elective		3
Advanced ENG Course Elective		3
Advanced ENG Course Elective		3
ENG 300	Teaching English	3
ENG 301	Modern Grammar	3
ENG 305	Children's and Young Adult Literature	3
ENG 331	Introduction to Linguistics	3
or ENG 317	Word Building	
ENG 333	Advanced Writing: Nonfiction	3

ENG 404	Literature and Identities	3
or ENG 409	Literary Genres	
RDG 350	The Foundations of Literacy Instruction	3
RDG 360	Pedagogy of Literacy Acquisition	3
Total Hours		36

Mathematics (4-8) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Support Courses

MATH 1314	College Algebra *	
MATH 2312	Pre-Calculus *	
PSY 310	Psychology of Various Populations	3
RDG 350	The Foundations of Literacy Instruction	3
RDG 360	Pedagogy of Literacy Acquisition	3

Required Mathematics Courses

MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
MATH 301	Introductory Geometry	3
MATH 361	Mathematical Modeling of Science for Middle School I	3
MATH 362	Mathematical Modeling of Science for Middle School II	3
MATH 372	Mathematics Structures and Applications	3
MATH 380	Mathematics History	3
MATH 453	Essentials of Statistics	3
MATH 460	Math for Secondary Teachers	3

Total Hours		36
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Science (4-8) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Support Courses

MATH 1314	College Algebra *	
MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
MATH 2312	Pre-Calculus *	
EDCI 330	Foundations of Science Inquiry	3
PSY 310	Psychology of Various Populations	3
RDG 350	The Foundations of Literacy Instruction	3
RDG 360	Pedagogy of Literacy Acquisition	3

Required Science Courses

BSC 1411	Botany	4
BSC 1413	Zoology *	
CHEM 1305	Introductory Chemistry I *	
CHEM 1105	Introductory Chemistry Laboratory I	1
GEOL 1303	Physical Geology	3
PHYS 1401	College Physics I	4
Advanced Science Elective (ASTR, BSC, CHEM, ENVS, IS, or PHYS)		6

Total Hours		36
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Family and Consumer Sciences (6-12) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Family and Consumer Sciences Courses

Advanced Elective (ALC, COUN, ECE, FCS, FDSC, HHPH, NUTR, PSY, or SOC)	6
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AEC 2317	Agricultural Economics *	
AEC 301	Trends in the Food Industry	3
COUN 414	Home & Family Living	3
FCS 375	Foundations in Family and Consumer Sciences	3
FCS 425	Housing & Home Improvement	3
FCS 475	Instructional Techniques	3
FDSC 1329	Principles of Food Science	3
FDSC 421	Food Systems: Farm to Fork	3
NUTR 201	Food Preparation	3
or NUTR 210	Nutrition Through the Life Cycle	
PSY 319	Child and Adolescent Development	3
SOC 316	Marriage and Family	3

Total Hours**36**

Mathematics, Physical Science, and Engineering (6-12) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in Mathematics, Physical Science, and Engineering		
CHEM 1311	General and Quantitative Chemistry I *	
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
CHEM 101	General Chemistry Tutorial I	1
CHEM 1312	General and Quantitative Chemistry II *	
CHEM 1112	General and Quantitative Chemistry Laboratory II	1
CHEM 102	General Chemistry Tutorial II	1
ENGR 110	Introduction to Engineering and Technology	3
ENGR 1304	Computer-Aided Design (CAD)	3
ENGR 213	Engineering Probability and Statistics	3
ENGR 2303	Engineering Mechanics- Statics and Dynamics	3
MATH 2318	Linear Algebra	3
MATH 2413	Calculus I *	
MATH 2414	Calculus II *	
MATH 301	Introductory Geometry	3
MATH 460	Math for Secondary Teachers	3
PHYS 2425	University Physics I	4
PHYS 2426	University Physics II	4
PHYS 345	Teaching and Learning Physics	3

Total Hours**36**

Social Studies (7-12) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in Social Studies		
ECO 2301	Prin Macro Economics *	
ECO 2302	Principles of Micro Economics	3
HIST 303	Historical Geography	3
HIST 305	World History to 17th Century	3
HIST 306	The Modern World	3
HIST 309	Presenting the Past	3
HIST 355	Debates in Texas History & Memory	3
HIST 400	Teaching and Learning in History and Social Studies	3
LALS 101	Introduction to Latin American & US Latino Studies *	
or GDRS 200	Introduction to Gender Studies	
or AFAM 200	Introduction to African American Studies	

Non-US History Course Elective

Choose one from the following:

3

HIST 311	Modern East Asia
HIST 316	Modern India
HIST 317	Modern Middle East
HIST 325	Colonial Latin America
HIST 327	Latin America in the Modern Period
HIST 332	Ancient Europe and the Mediterranean World
HIST 335	The Medieval European World
HIST 337	Europe in the Age of Enlightenment and Revolution, 1648-1848
HIST 338	Modern Europe, 1848-1991

US History Course Electives

Choose one from the following:

3

HIST 342	Colonial North America to 1763
HIST 343	Revolutionary America, 1763-1789
HIST 344	Early National United States, 1789-1850
HIST 345	Civil War and Reconstruction
HIST 346	Modern United States 1850-1920
HIST 347	The Twentieth-Century United States

Choose one from the following:

3

HIST 440	Modern American Social Movements
HIST 443	History of the American West
HIST 445	Advanced Studies in Texas History
HIST 450	African American History
HIST 453	Mexican American History
HIST 457	Themes in United States History
HIST 479	Women, Gender, and Sexuality in United States History

History Course Elective

Choose one from the following:

3

HIST 408	Themes in World History
HIST 412	Mapping Our World: An Introduction to Cartography
HIST 413	Food in World History
HIST 414	Global Enviro History
HIST 417	History of the Ottoman Empire
HIST 418	Themes in Asian or Middle East History
HIST 428	History of Modern Mexico
HIST 432	The Late Antique Mediterranean World
HIST 433	The Middle Ages
HIST 434	The European Reformations
HIST 436	Russia and the Soviet Union from Peter to Putin
HIST 473	Women and Gender in European History
HIST 462	Introduction to Public History
HIST 466	Oral History Theory and Methods
HIST 463	Material Culture Analysis for Historians
HIST 469	Introduction to Digital History
HIST 497	Special Topics in History

Government and Politics Course Elective

Choose one from the following:

3

PSCI 335	Political Economy
PSCI 336	American State and Local Government
PSCI 341	American Presidency
PSCI 344	Amer Pol Par/Electoral Po
PSCI 345	Public Opinion

PSCI 346	Intro to Public Policy	
PSCI 410	Order, Justice, and Community	
PSCI 411	Liberty, the State, and the Person	
PSCI 412	The Age of Ideology	
PSCI 414	Amer Political Thought	
PSCI 441	Congressional Politics	
PSCI 443	Civil Liberties and Civil Rights	
PSCI 444	Law, Politics, and the Judicial Process	
PSCI 465	American Political Behavior	
Total Hours		36

Special Education (EC-12) Emphasis

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Support Courses		
MATH 1314	College Algebra *	
EDCI 1354	Child Growth and Development	3
EDCI 330	Foundations of Science Inquiry	3
MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
RDG 350	The Foundations of Literacy Instruction	3
RDG 360	Pedagogy of Literacy Acquisition	3
Required Courses in Special Education		
SPED 420	Current Topics in Special Education	3
SPED 449	Assessment of Students with Special Needs	3
SPED 463	Effective Classroom Management and Positive Behavioral Interventions	3
SPED 464	Fostering Transition and Collaboration	3
SPED 468	Low Incidence Disabilities	3
SPED 472	Special Education Clinical Teaching II	3
SPED 475	Instructional Strategies for the Content Areas	3
Total Hours		39

Double Major Secondary Education and Biological Sciences (7-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Biological Science Courses		
BSC 1406	Introductory Biology I *	
BSC 1407	Introductory Biology II	4
BSC 303	Cell Biology	4
BSC 304	Genetics	4
BSC 305	General Physiology	4
BSC 306	Applied Microbiology	4
BSC 307	Ecology	3
BSC 401	Research Literature and Seminar	3
BSC 412	Fundamentals of Biostatistics	3
Required Support Courses		
Advanced BSC Courses		6
CHEM 1311	General and Quantitative Chemistry I *	
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
CHEM 1312	General and Quantitative Chemistry II *	
CHEM 1112	General and Quantitative Chemistry Laboratory II	1
MATH 1314	College Algebra *	
Total Hours		37

Double Major Secondary Education and Chemistry (7-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in Chemistry		
CHEM 101	General Chemistry Tutorial I	1
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
CHEM 1311	General and Quantitative Chemistry I	
CHEM 102	General Chemistry Tutorial II	1
CHEM 1112	General and Quantitative Chemistry Laboratory II	1
CHEM 1312	General and Quantitative Chemistry II	
CHEM 201	Organic Chemistry Tutorial I	1
CHEM 2123	Organic Chemistry Laboratory I	1
CHEM 2323	Organic Chemistry I	3
CHEM 202	Organic Chemistry Tutorial II	1
CHEM 2125	Organic Chemistry Laboratory II	1
CHEM 2325	Organic Chemistry II	3
CHEM 340	Quantitative & Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
CHEM 401	Chemical Sci & Profession	1
CHEM 401	Chemical Sci & Profession	1
CHEM 418	Undergraduate Research	2
CHEM 418	Undergraduate Research	2
Required Support Courses		
MATH 2413	Calculus I *	
MATH 2414	Calculus II *	
PHYS 2425	University Physics I	4
PHYS 2426	University Physics II	4
Total Hours		36

Double Major Secondary Education and English (7-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in English		
ENG 300	Teaching English	3
ENG 303	Introduction to English Studies	3
ENG 399	Research Methods in English Studies	3
Literature		
Choose three from the following:		9
ENG 441	Advanced Survey of American Literature I	
ENG 442	Advanced Survey of American Literature II	
ENG 471	Advanced Survey of British Literature I	
ENG 472	Advanced Survey of British Literature II	
ENG 474	Topics in World Literature	
Rhetoric and Writing		
Choose two from the following:		6
ENG 333	Advanced Writing: Nonfiction	
ENG 341	Professional & Technical Communication I	
ENG 412	Writing with Digital Media	
Linguistics		
Choose two from the following:		6
ENG 301	Modern Grammar	
ENG 331	Introduction to Linguistics	
ENG 358	Language & Society	

Required Support Courses

ENG 2326	Intro to Literature *
or ENG 2331	Literature of the Western World
or ENG 200	Popular Literature and Culture
or ENG 202	Multiethnic Literatures
or ENG 205	Humor in the Humanities
or ENG 323	Mythology

Foreign Language Requirement 12

Total Hours 42

Double Major Secondary Education and History (7-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in History

HIST 303	Historical Geography	3
HIST 305	World History to 17th Century	3
or HIST 306	The Modern World	
HIST 309	Presenting the Past	3
HIST 492	Senior Research Seminar	3

Choose two US History courses from the following: 6

HIST 342	Colonial North America to 1763
HIST 343	Revolutionary America, 1763-1789
HIST 344	Early National United States, 1789-1850
HIST 345	Civil War and Reconstruction
HIST 346	Modern United States 1850-1920
HIST 347	The Twentieth-Century United States

Choose two Non-US History courses from the following: 6

HIST 311	Modern East Asia
HIST 316	Modern India
HIST 317	Modern Middle East
HIST 325	Colonial Latin America
HIST 327	Latin America in the Modern Period
HIST 332	Ancient Europe and the Mediterranean World
HIST 335	The Medieval European World
HIST 337	Europe in the Age of Enlightenment and Revolution, 1648-1848
HIST 338	Modern Europe, 1848-1991

Required Support Courses

HIST 400	Teaching and Learning in History and Social Studies	3
HIST 355	Debates in Texas History & Memory	3
or HIST 445	Advanced Studies in Texas History	
Any 300/400 Level HIST Course		3
Any 400 Level HIST Course		3

Total Hours 36

Double Major Secondary Education and Mathematics (7-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses for Mathematics

COSC 1436	Introduction to Computer Science and Programming	4
MATH 2305	Discrete Mathematics	3
MATH 2318	Linear Algebra	3
MATH 2320	Differential Equations	3
MATH 2413	Calculus I *	
MATH 2414	Calculus II	4

MATH 2415	Calculus III	4
MATH 402	Mathematical Statistics I	3
MATH 403	Mathematical Statistics II	3
Required Support Courses		
MATH 321	College Geometry	3
MATH 372 or MATH 437	Mathematics Structures and Applications Number Theory	3
MATH 460	Math for Secondary Teachers	3
PHYS 2425 or PHYS 2426	University Physics I University Physics II	4
Total Hours		40

Double Major Secondary Education and Physics (6-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in Physics		
PHYS 2425	University Physics I *	
PHYS 2426	University Physics II	4
PHYS 317	Mathematical Methods for Physics and Engineering	3
PHYS 321	Modern Physics	3
PHYS 333	Wave Motion, Acoustics, and Optics	4
PHYS 335	Advanced Physics Laboratory	3
Choose two from the following:		6
PHYS 411	Classical Mechanics	
PHYS 412	Electricity and Magnetism	
PHYS 414	Thermodynamics and Kinetic Theory	
PHYS 420	Quantum Mechanics	
Required Support Courses		
CHEM 1311	General and Quantitative Chemistry I *	
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
MATH 2413	Calculus I *	
MATH 2414	Calculus II *	
MATH 2415	Calculus III	4
PHYS 151	Physics From Absolute Zero I (Calculus-ready transfer students may substitute an advanced PHYS or ASTR or MATH elective for PHYS 151)	3
PHYS 119	Introduction to Python Computer Programming for the Physical Sciences	1
PHYS 319	Computational Physics with Python	3
PHYS 345	Teaching and Learning Physics	3
Choose two from the following (may be taken twice):		2
PHYS 371	Science and Math Education Theory and Practice	
PHYS 401	Current Topics in Physics and Astronomy	
400-Level Physics Course		3
Total Hours		43

Double Major Secondary Education and Art (EC-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Art Foundations Courses		
ART 1304	History of Art II *	
ART 1311	Two-Dimensional Design and Color Theory	3
ART 1312	Three-Dimensional Design & Color Theory	3
ART 1316	Drawing I	3
Required Sophomore Courses		
ART 2316	Painting I	3

ART 2326	Sculpture I	3
ART 2346	Ceramics I	3
PHO 2357	Basic Photography	3
Required Support Courses		
ART 354	Teaching Art in the Elementary Classroom	3
ART 355	Teaching Art in the Secondary Classroom	3
ART 426	History of Art and Activism	3
Foreign Language Requirement		12
Total Hours		42

Double Major Secondary Education and Hispanic Studies (EC-12)

This double major will allow you to take the Texas Spanish LOTE certification exam.

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Spanish Courses		
SPA 2311	Intermediate Spanish I	3
SPA 2312	Intermediate Spanish II	3
SPA 331	Film for Spanish Conversation and Composition	3
or SPA 333	Spa for Heritage Speakers	
SPA 332	Latin American Cultural Studies	3
or SPA 334	Spanish for Heritage Speakers II	
SPA 341	Intro to Spanish Literature	3
SPA 342	Introduction to Hispanic Linguistics	3
Choose six from the following:		18
SPA 335	Advanced Spanish for Teaching Certification	
SPA 428	Social Issues in Hispanic Film	
SPA 471	Seminar in Latin American Comparative Cultural Studies	
SPA 472	Critical Approaches to Hispanic Culture	
SPA 475	Methods for Teaching Spa	
SPA 476	Introduction to ENG-SPA Translation	
SPA 477	Spanish in the United States	
SPA 483	Professional Writing in Spanish	
SPA 497	Special Topics	
Total Hours		36

Double Major Secondary Education and Kinesiology & Sport Studies (EC-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in Physical Education		
HHPK 1301	Foundations of Kinesiology	3
HHPK 1306	First Aid and Safety	3
HHPK 1338	Concepts of Physical Activity	3
HHPK 2356	Prevention & Care of Athletic Injuries	3
HHPK 290	Structural Kinesiology	3
HHPK 335	Kinesiology	4
HHPK 350	Motor Learning and Motor Control	3
HHPK 450	Exercise Physiology	4
MATH 1314	College Algebra *	
NUTR 331	Nutrition *	
Required Support Courses		
HHPK 304	Motor Development	3

HHPK 309	Fundamental Rhythms and Dance	3
HHPK 314	Teaching Methods in Physical Education I	3
HHPK 315	Teaching Methods in Physical Education II	3
HHPK 424	Technology and Assessment in Physical Education	3
Total Hours		41

Double Major Secondary Education and Theatre (EC-12)

Students must maintain a GPA of 2.75, with grades of 'C' or better in all courses.

Required Courses in Theatre		
6 sh of practicum courses THE 109, THE 209, THE 309, THE 409		6
THE 1310	Intro to Theatre *	
THE 1351	Fundamentals of Acting	3
THE 215	Stage Technology I	3
THE 2355	Play Analysis	3
THE 340	History Of Theatre I	3
THE 415	Stage Directing I	3
THE 440	History of Theatre II	3
Required Support Courses		
THE 129	Costume Technology I	3
THE 212	Theatrical Design	3
THE 308	Playwriting I	3
THE 320	Intermediate Acting	3
or THE 345	Acting Period Styles	
or THE 445	Projects in Acting	
THE 370	Theatre Education I	3
Total Hours		39

* This course should be used to satisfy the Core Curriculum Requirements.

Course	Title	Hours
First Year		
Fall		
Delete		
Hours		0
Total Hours		0