

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 2.75 GPA with no grade below a "C" in all courses.

Admission to the Educator Preparation Program (EPP) required before enrollment

PSY 300	Learning Processes and Development	3
RDG 380	Comprehension and Vocabulary in Middle and High Schools	3
SED 1301	Edu in a Global Society	3
SED 300	Foundations of Secondary Education	3
SED 330	Differentiation for All Learners	3
SED 331	Instructional Design	3
SED 332	Creating an Engaging Learning Environment	3
SPED 346	Survey of Exceptionalities	3

Required Clinical Teaching Courses

Students must maintain a 2.75 GPA with no grade below a "C" in all Clinical Teaching courses.

Admission to the Educator Preparation Program (EPP) required before enrollment.

Clinical Teaching I Courses

SED 400	Issues of Professionalism	3
SED 401	Technology Infused Curriculum and Assessment in Field-based Environments	3

Clinical Teaching II Courses

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

Required Second Major or Emphasis 39-48

Total Hours 123-132

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 2.75 GPA with no grade below a "C" in all required courses.

Required Support Courses

IS 351	Science Inquiry I for Pre-service Educators	3
IS 352	Science Inquiry II for Pre-service Educators	3
MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
EDCI 412	Emergent Bilinguals: Theory and Practice	3
RDG 360	Word Analysis Skills	3
MLED 314	Adolescent Development & Learning Theories	3
PSY 310	Psychology of Various Populations	3

Required English, Language Arts, and Reading Courses

ENG 300	Teaching English	3
ENG 301	Modern Grammar	3
ENG 305	Children's and Young Adult Literature	3
ENG 434		
ENG 406		

ENG 331	Introduction to Linguistics	3
or ENG 317	Word Building	
ENG 333	Advanced Writing: Nonfiction	3
Total Hours		39

Mathematics (4-8) Emphasis

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Support Courses		
IS 351	Science Inquiry I for Pre-service Educators	3
IS 352	Science Inquiry II for Pre-service Educators	3
MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
EDCI 412	Emergent Bilinguals: Theory and Practice	3
MLED 314	Adolescent Development & Learning Theories	3
PSY 310	Psychology of Various Populations	3
Required Mathematics Courses		
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
Total Hours		39

Science (4-8) Emphasis

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Support Courses		
IS 351	Science Inquiry I for Pre-service Educators	3
IS 352	Science Inquiry II for Pre-service Educators	3
MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
EDCI 412	Emergent Bilinguals: Theory and Practice	3
MLED 314	Adolescent Development & Learning Theories	3
PSY 310	Psychology of Various Populations	3
Required Science Courses		
IS 451	Historical Development of Great Ideas in Science for Pre-service Educators	3
ESCI 461	Earth Science for Teachers	3
BSC 461	Biology for Mid School Teacher	3
PHYS 1401	College Physics I	4
CHEM 1305	Introductory Chemistry I	3
CHEM 1105	Introductory Chemistry Laboratory I	1
Science Elective		3
Total Hours		41

Family and Consumer Sciences (6-12) Emphasis

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Family and Consumer Sciences Courses		
AEC 301	Trends in the Food Industry	3
COUN 414	Home & Family Living	3
ECO 1307	Economics of Personal Finance	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
HHPH 331	Nutrition *	
PSY 319	Child and Adolescent Development	3
SOC 316	Marriage and Family	3
Advanced Elective in ALC, COU, ECE, FCS, FDSC, HHPH, PSY, or SOC		9
Total Hours		39

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

Students must maintain a 2.75 GPA with no grade below a "C" in all required 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
MATH 2413	Calculus I *	
MATH 2414	Calculus II	4
MATH 301	Introductory Geometry	3
MATH 2318	Linear Algebra	3
MATH 460	Math for Secondary Teachers	3
PHYS 2425	University Physics I	4
PHYS 2426	University Physics II	4
ENGR 110	Introduction to Engineering and Technology	3
ENGR 2303	Engineering Mechanics- Statics and Dynamics	3
ENGR 1304	Computer-Aided Design (CAD)	3
ENGR 213	Engineering Probability and Statistics	3
PHYS 345	Teaching and Learning Physics	3
Total Hours		40

Physical Education (K-12) Emphasis

Students must maintain a 2.75 GPA with no grade below a "C" in all required 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 302	Adapted Physical Education	3
HHPK 304	Motor Development	3
HHPK 315	Teaching Methods in Physical Education II	3
HHPK 335	Kinesiology	4
HHPK 314	Teaching Methods in Physical Education I	3
or HHPK 324	Health and Kinesiology for Children	
HHPK 350	Motor Learning and Motor Control	3
HHPK 450	Exercise Physiology	4
HHPH 331	Nutrition *	
HHPK 309	Fundamental Rhythms and Dance	3

or HHPK 280	Dance Intensive I: Techniques of Ballet, Jazz & Contemporary Dance	
Total Hours		41

Social Studies (7-12) Emphasis

Students must maintain a 2.75 GPA with no grade below a "C" in all required 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	

European History

Choose one from the following: 3

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	

Asia/Latin America

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	

United States History

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	

World History

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	

International and Comparative Politics

Choose one from the following: 3

PSCI 331	European Political System	
PSCI 332	Democ & Democratization	
PSCI 333	Non-European Polit System	
PSCI 342	Intro to Global Pub Pol	
PSCI 430	Rev & Revolutionary Movmt	
PSCI 437	Foreign Policy	
PSCI 438	International Relations	

Government and Politics

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	

Choose one from the following: 3

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 45

Special Education (EC-12) Emphasis

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Courses in Special Education

MATH 1350	Mathematics for Teachers I	3
MATH 1351	Mathematics for Teachers II	3
IS 351	Science Inquiry I for Pre-service Educators	3
ECE 313	Child Growth and Development	3
RDG 350	Reading and Literacy I	3
RDG 360	Word Analysis Skills	3
SPED 449	Assessment of Students with Special Needs	3
SPED 475	Instructional Strategies for the Content Areas	3

SPED 464	Fostering Transition and Collaboration	3
SPED 420	Current Topics in Special Education	3
SPED 468	Low Incidence Disabilities	3
SPED 472	SPED Residency	3
SPED 463	Effective Classroom Management and Positive Behavioral Interventions	3
Total Hours		39

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

Required Biological Science Courses

BSC 1406	Introductory Biology I	4
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 **41**

Double Major Secondary Education and Chemistry (7-12)

Students must maintain a 2.75 GPA with no grade below a "C" in all required 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 201	Organic Chemistry Tutorial I	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	4
PHYS 2425	University Physics I	4

PHYS 2426	University Physics II	4
Total Hours		40

Double Major Secondary Education and English (7-12)

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Courses in English		
ENG 303	Introduction to English Studies	3
ENG 399	Research Methods in English Studies	3
ENG 300	Teaching English	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 Writing	
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 432	Evolution of Film Art *	
ENG 2326	Intro to Literature *	
or ENG 2331	Literature of the Western World	
or ENG 202	Multiethnic Literatures	
Foreign Language Requirement		12
Total Hours		42

Double Major Secondary Education and History (7-12)

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Courses in History		
HIST 305	World History to 17th Century	3
HIST 306	The Modern World	3
HIST 309	Presenting the Past	3
HIST 492	Senior Research Seminar	3
Choose one European History course from the following:		3
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	
Choose one early United States course 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	
Choose one advanced United States course 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	
Choose one advanced World course 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 497	Special Topics in History (Course may be repeated as topic changes and may be applied to other categories as appropriate to the topic)	
Required Support Courses		
HIST 303	Historical Geography	3
HIST 400	Teaching and Learning in History and Social Studies	3
Choose one European History course from the following:		3
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	
Choose one Asian, Middle East, or Latin American course 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	
Choose one late United States course from the following:		3
HIST 346	Modern United States 1850-1920	
HIST 347	The Twentieth-Century United States	
HIST 355	Debates in Texas History & Memory	

Total Hours	39
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Double Major Secondary Education and Mathematics (7-12)

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Courses for Mathematics		
MATH 2413	Calculus I *	
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
PHYS 2425	University Physics I	4
MATH 2305	Discrete Mathematics	3
MATH 2318	Linear Algebra	3
MATH 2320	Differential Equations	3
MATH 402	Mathematical Statistics I	3
MATH 403	Mathematical Statistics II	3
COSC 1436	Introduction to Computer Science and Programming	4

Required Support Courses

MATH 321	College Geometry	3
MATH 372	Mathematics Structures and Applications	3
or MATH 437	Number Theory	
MATH 460	Math for Secondary Teachers	3
Total Hours		40

Double Major Secondary Education and Physics (6-12)

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Courses in Physics

PHYS 2425	University Physics I *	
PHYS 2426	University Physics II *	
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	3
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
MATH 2413	Calculus I *	
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
PHYS 101	Physics and Astronomy Seminar	1
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		44

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

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

Students must maintain a 2.75 GPA with no grade below a "C" in all required 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 five 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	

Required Support Courses

SPA 1311	Elementary Spanish I	3
SPA 1312	Elementary Spanish II	3

Total Hours**42****Double Major Secondary Education and Art (K-12)**

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Art Foundations Courses

ART 1304	History of Art II *	
ART 1316	Drawing I	3
ART 1311	Two-Dimensional Design and Color Theory	3
ART 1312	Three-Dimensional Design & Color Theory	3

Required Sophomore Courses

PHO 2357	Basic Photography	3
ART 2316	Painting I	3
ART 2326	Sculpture I	3
ART 2346	Ceramics I	3

Required Support Courses

ART 354	Teaching Art in the Elementary Classroom	3
ART 355	Teaching Art in the Secondary Classroom	3
ART 404	History of Contemporary Art	3
ART 405	History Of Modern Art	3
PHO 2356	Introduction to Digital Media	3

Foreign Language Requirement**12****Total Hours****48****Double Major Secondary Education and Theatre (K-12)**

Students must maintain a 2.75 GPA with no grade below a "C" in all required courses.

Required Courses in Theatre

THE 1310	Intro to Theatre *	
6 sh of practicum courses		6
THE 109	Practicum	
THE 209	Practicum	
THE 309	Practicum	
THE 409	Practicum	
THE 1351	Fundamentals of Acting	3
THE 129	Costume Technology I	3
THE 212	Theatrical Design	3
THE 215	Stage Technology I	3
THE 2355	Play Analysis	3
THE 236	Voice and Diction	3
THE 308	Playwriting I	3
THE 340	History Of Theatre I	3

THE 415	Stage Directing I	3
THE 440	History of Theatre II	3
THE 320	Intermediate Acting	3
or THE 345	Acting Period Styles	
or THE 445	Projects in Acting	

Total Hours	39
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* This course should be used to satisfy the Core Curriculum Requirements.

First Year

Fall	Hours
Delete	
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0	

Total Hours: 0