

# UNIVERSITY CORE CURRICULUM

The Texas A&M Core Curriculum, in compliance with the Texas Core Curriculum, provides students with a foundation of knowledge of human cultures and the physical and natural world, develops principles of personal and social responsibility for living in a diverse world, and advances intellectual and practical skills that are essential for all learning. The Core Curriculum enhances the individual degree program and university graduation requirements, and all three areas must be met by every student.

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum ensures that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. The core curriculum acts to enrich and broaden the University's tradition of providing thorough preparation in each student's academic major and preparing students for a lifetime of learning.

The University Core Curriculum requirements are described in the section that follows. These requirements must be met by every student entering Texas A&M University on or after the 2014 fall semester. Students entering earlier will be guided by the core curriculum in the catalog upon which they entered the university. Individual degree programs may require that specific courses from the core curriculum be used to satisfy core curriculum requirements. Please check with individual program advisors for details. Students transferring course credit to satisfy the Core Curriculum requirements should refer to the Texas Common Course Numbering System (<http://catalog.tamu.edu/undergraduate/appendices/texas-common-course-numbering-system/>).

Texas A&M University branch campuses in Galveston and Qatar do not offer all of the courses included in the Texas A&M core curriculum. All campuses offer courses in each Foundational Component Area so that students can complete the core curriculum at their home campus.

However, the Galveston and Qatar campuses have a limited number of courses in each Foundational Component Area. Students should consult their academic advisors for information on core curriculum courses available at their specific campus.

The core curriculum focuses on the development of six skills that have been shown to be effective in preparing students for the job market and their role in a diverse world and democratic society.

- *Critical Thinking Skills* – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- *Communication Skills* – to include effective development, interpretation and expression of ideas through written, oral and visual communication.
- *Empirical and Quantitative Skills* – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
- *Teamwork* – to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
- *Personal Responsibility* – to include the ability to connect choices, actions and consequences to ethical decision-making.

- *Social Responsibility* – to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities.

Students develop and practice these skills in the context of 42 semester credit hours assigned to eight Foundational Component Areas, each made up of a selection of courses that meet the definition provided by the Texas Core Curriculum. For additional information, please reference <http://core.tamu.edu>.

## Communication - 6 SCH

Code	Title	Semester Credit Hours
COMM 203	Public Speaking	3
COMM 205	Communication for Technical Professions	3
COMM 243	Argumentation and Debate	3
ENGL 103	Introduction to Rhetoric and Composition	3
ENGL 104	Composition and Rhetoric	3
ENGL 203	Writing about Literature	3
ENGL 210	Technical and Business Writing	3
THAR 407	Performing Literature.	3

Courses in this category focus on developing ideas and expressing them clearly, considering the effective of the message, fostering understanding, and building the skills needed to communicate persuasively. Courses involve the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, team work, and personal responsibility.

## Mathematics – 6 SCH<sup>1</sup>

Code	Title	Semester Credit Hours
MATH 140	Mathematics for Business and Social Sciences	3
MATH 142	Business Calculus	3
MATH 147	Calculus I for Biological Sciences	4
MATH 148	Calculus II for Biological Sciences	4
MATH 150	Functions, Trigonometry and Linear Systems	4
MATH 151	Engineering Mathematics I	4
MATH 152	Engineering Mathematics II	4
MATH 167	Explorations in Mathematics	3
MATH 168	Finite Mathematics	3
MATH 171	Calculus I	4
MATH 172	Calculus II	4
PHIL 240	Introduction to Logic	3
STAT 201	Elementary Statistical Inference	3

Courses in this category focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experiences. The following skills will be addressed in

the courses that comprise this area: critical thinking, communication, and empirical and quantitative.

## Life and Physical Sciences – 9 SCH<sup>2</sup>

Code	Title	Semester Credit Hours
ANSC 107	General Animal Science	3
ANTH 225	Introduction to Biological Anthropology	3
ANTH 226	Introduction to Biological Anthropology Laboratory	1
ASTR 101	Basic Astronomy	3
ASTR 102	Observational Astronomy	1
ASTR 103	Introduction to Stars and Exoplanets	3
ASTR 104	Introduction to Galaxies and Cosmology	3
ASTR 109/ PHYS 109	Big Bang and Black Holes	3
ASTR 111	Overview of Modern Astronomy	4
ASTR 119/ PHYS 119	Big Bang and Black Holes: Laboratory Methods	1
ATMO 201	Weather and Climate	3
ATMO 202	Weather and Climate Laboratory	1
BESC 201	Introduction to Bioenvironmental Sciences	3
BESC 204	Molds and Mushrooms: The Impact of Fungi on Society and the Environment	3
BIOL 101	Botany	4
BIOL 107	Zoology	4
BIOL 111	Introductory Biology I	4
BIOL 112	Introductory Biology II	4
BIOL 113	Essentials in Biology	3
CHEM 106	Molecular Science for Citizens	3
CHEM 107	General Chemistry for Engineering Students	3
CHEM 116	Molecular Science for Citizens Laboratory	1
CHEM 117	General Chemistry for Engineering Students Laboratory	1
CHEM 119	Fundamentals of Chemistry I	4
CHEM 120	Fundamentals of Chemistry II	4
ENGR 101	Energy: Resources, Utilization and Importance to Society	4
ENTO 322	Insects and Human Society	3
ESSM 309	Forest Ecology	3
FIVS 123	Forensic Investigations	3
GEOG 203	Planet Earth	3
GEOG 205	Environmental Change	3
GEOG 213	Planet Earth Lab	1
GEOL 101	Principles of Geology	3
GEOL 102	Principles of Geology Laboratory	1
GEOL 106	Historical Geology	4

GEOL 207	Dinosaur World	3
GEOL 208	Life on a Dynamic Planet	3
GEOS 210	Climate Change	3
HORT 201	Horticultural Science and Practices	3
HORT 202	Horticultural Science and Practices Laboratory	1
KINE 120	The Science of Basic Health and Fitness	1
KINE 223	Introduction to the Science of Health and Fitness	3
NFSC 222	Nutrition for Health and Health Care	3
OCNG 251	Oceanography	3
OCNG 252	Oceanography Laboratory	1
PHYS 109/ ASTR 109	Big Bang and Black Holes	3
PHYS 119/ ASTR 119	Big Bang and Black Holes: Laboratory Methods	1
PHYS 123	Physics for Future Presidents	3
PHYS 125	Soft Matter Physics for Non-physicists	3
PHYS 201	College Physics	4
PHYS 202	College Physics	4
PHYS 206	Newtonian Mechanics for Engineering and Science	3
PHYS 207	Electricity and Magnetism for Engineering and Science	3
PHYS 226	Physics of Motion Laboratory for the Sciences	1
PHYS 227	Electricity and Magnetism Laboratory for the Sciences	1
POSC 201	General Avian Science	3
RENR 205	Fundamentals of Ecology	3
RENR 215	Fundamentals of Ecology–Laboratory	1
SCEN 101	Contemporary Issues in Science - Cosmos, Earth and Humanity	3
SCEN 102	Contemporary Issues in Science - The Environment	3
SCSC 105	World Food and Fiber Crops	3
SCSC 301	Soil Science	4

Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, empirical and quantitative, and team work.

## Language, Philosophy and Culture – 3 SCH

Code	Title	Semester Credit Hours
AFST 201	Introduction to Africana Studies	3
AFST 204/ ENGL 204	Introduction to African-American Literature	3
AFST 345/ HIST 345	Modern Africa	3
ANTH 204	The Prehistoric World	3
ANTH 205	Peoples and Cultures of the World	3
ANTH 210	Social and Cultural Anthropology	3
ANTH 316	Nautical Archaeology	3
ANTH 317/ RELS 317	Introduction to Biblical Archaeology	3
ARAB 201	Intermediate Arabic I	3
ARAB 202	Intermediate Arabic II	3
ARCH 213	Sustainable Architecture	3
ARCH 346	Architecture, Heritage and Culture	3
CARC 331	Field Studies in Design Philosophy	3
CHIN 201	Intermediate Chinese I	3
CHIN 202	Intermediate Chinese II	3
CLAS 220	History of Christianity: Origins to the Reformation	3
CLAS 221	Intermediate Latin I	3
CLAS 222	Intermediate Latin II	3
CLAS 250	Greek and Roman Civilization	3
CLAS 251/ RELS 251	Classical Mythology	3
CLAS 261	Great Books of the Classical Tradition	3
CLAS 262	Great Books of Christian Antiquity and the Latin Middle Ages	3
CLAS 429/ HIST 429	The Roman Empire: Transformations	3
COMM 301	Rhetoric in Western Thought	3
COMM 327	American Oratory	3
ENGL 202	Environmental Literature	3
ENGL 204/ AFST 204	Introduction to African-American Literature	3
ENGL 206	Twenty-first Century Literature and Culture	3
ENGL 207	Human Thinking and Digital Culture	3
ENGL 221/ MODL 221	World Literature	3
ENGL 222/ MODL 222	World Literature	3
ENGL 227	American Literature: The Beginnings to Civil War	3
ENGL 228	American Literature: Civil War to Present	3
ENGL 231	Survey of English Literature I	3
ENGL 232	Survey of English Literature II	3
ENGL 253	Introduction to Cultural Studies and Popular Culture	3
ENGL 292	Introduction To Literature And Medicine	3
ENGL 306	Transnational Literature and Culture	3
ENGL 330	Arthurian Literature	3
ENGL 333/ WGST 333	Lesbian, Gay, Bisexual, Transgender and Queer Literatures	3
ENGL 334	Science Fiction Present and Past	3
ENGL 335	Literature of the Sea	3
ENGL 338	American Ethnic Literature	3
ENGL 350	Twentieth-Century Literature to World War II	3
ENGL 352	Literature, World War II to Present.	3
ENGL 360	Literature for Children	3
ENGL 362/ HISP 362	Latino/a Literature	3
ENGL 365/ RELS 360	The Bible as Literature	3
ENGL 374/ WGST 374	Women Writers	3
ENGL 376	The American Novel Since 1900	3
ENGR 482/ PHIL 482	Ethics and Engineering	3
FREN 201	Intermediate French I	3
FREN 202	Intermediate French II	3
GEOG 202	Geography of the Global Village	3
GEOG 301	Geography of the United States	3
GEOG 305	Geography of Texas	3
GERM 201	Intermediate German I	3
GERM 202	Intermediate German II	3
HISP 206	Food in the Hispanic World	3
HISP 362/ ENGL 362	Latino/a Literature	3
HIST 101	Western Civilization to 1660	3
HIST 102	Western Civilization Since 1660	3
HIST 103	World History to 1500	3
HIST 104	World History Since 1500	3
HIST 210	Russian Civilization	3
HIST 213	History of England	3
HIST 214	History of England	3
HIST 220	History of Christianity: Origins to the Reformation	3
HIST 221/ RELS 221	History of Islam	3
HIST 222/ RELS 222	History of Christianity, Reformation to Present	3
HIST 234	European Military History	3
HIST 242	United States Maritime History	3
HIST 345/ AFST 345	Modern Africa	3
HIST 347/ RELS 347	Rise of Islam, 600-1258	3

HIST 429/ CLAS 429	The Roman Empire: Transformations	3
INTS 251	Contemporary Issues in the Middle East	3
ITAL 201	Intermediate Italian I	3
ITAL 202	Intermediate Italian II	3
JAPN 201	Intermediate Japanese I	4
JAPN 202	Intermediate Japanese II	4
LAND 240	History of Landscape Architecture	3
MAST 270	Historic Seafaring and Maritime Heritage	3
MODL 221/ ENGL 221	World Literature	3
MODL 222/ ENGL 222	World Literature	3
MUSC 227	Popular Music of India	3
NFSC 300	Religious and Ethnic Foods	3
PERF 325	Dance and World Cultures	3
PERF 326	Dance and Identity in the United States	3
PHIL 111	Contemporary Moral Issues	3
PHIL 251	Introduction to Philosophy	3
PHIL 482/ ENGR 482	Ethics and Engineering	3
RELS 200	Religions of the World	3
RELS 202	Religion in America	3
RELS 209	Religions of the Ancient World	3
RELS 220	History of Christianity: Origins to the Reformation	3
RELS 221/ HIST 221	History of Islam	3
RELS 222/ HIST 222	History of Christianity, Reformation to Present	3
RELS 251/ CLAS 251	Classical Mythology	3
RELS 312	Contemplation in the Modern World	3
RELS 317/ ANTH 317	Introduction to Biblical Archaeology	3
RELS 347/ HIST 347	Rise of Islam, 600-1258	3
RELS 360/ ENGL 365	The Bible as Literature	3
RUSS 201	Intermediate Russian I	3
RUSS 202	Intermediate Russian II	3
SPAN 201	Intermediate Spanish I	3
SPAN 202	Intermediate Spanish II	3
SPMT 220	Olympic Studies	3
THAR 155	History of Western Dress	3
THAR 156	Dress in World Cultures	3
WGST 200	Introduction to Women's and Gender Studies	3
WGST 333/ ENGL 333	Lesbian, Gay, Bisexual, Transgender and Queer Literatures	3

WGST 374/ ENGL 374	Women Writers	3
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Courses in this category focus on how ideas, values, beliefs, and other aspects of culture express and affect human experience. Courses involve the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, social responsibility, and personal responsibility.

## Creative Arts – 3 SCH

Code	Title	Semester Credit Hours
AFST 327/ PERF 327	Popular Musics in the African Diaspora	3
ANTH 324/ MUSC 324	Music in World Cultures	3
ARCH 249	Survey of World Architecture History I	3
ARCH 250	Survey of World Architecture History II	3
ARCH 350	History and Theory of Modern and Contemporary Architecture	3
ARTS 149	Art History Survey I	3
ARTS 150	Art History Survey II	3
CARC 311	Field Studies in Design Communication	3
COMM 257/ RELS 257	Communication, Religion and the Arts	3
COMM 340	Communication and Popular Culture	3
DCED 202	Dance Appreciation	3
ENDS 101	Design Process	3
ENDS 115	Design Communication Foundations	3
ENGL 212	Shakespeare	3
ENGL 219	Literature and the Other Arts	3
ENGL 251/ FILM 251	Introduction to Film Analysis	3
FILM 215/ INTS 215	Global Cinema	3
FILM 251/ ENGL 251	Introduction to Film Analysis	3
FILM 299	History of Film	3
FILM 425/ FREN 425	French Film	3
FREN 425/ FILM 425	French Film	3
HISP 204	Spanish and Spanish American Literature in Translation	3
HORT 203	Floral Design	3
INTS 215/ FILM 215	Global Cinema	3
KINE 210	The Art of Movement	3
MUSC 201	Music and the Human Experience	3
MUSC 221	Guitar Heroes	3

MUSC 222	Music of the Americas	3
MUSC 225	History of Jazz	3
MUSC 226	History of Rock	3
MUSC 228	History of Electronic Music	3
MUSC 324/ ANTH 324	Music in World Cultures	3
PERF 223	Aesthetics of Activism	3
PERF 301	Performance in World Cultures	3
PERF 327/ AFST 327	Popular Musics in the African Diaspora	3
PERF 328	Japanese Traditional Performing Arts	3
PERF 386	Evolution of the American Musical	3
PHIL 330	Philosophy of Art	3
PHIL 375	Philosophy of the Visual Media	3
RELS 257/ COMM 257	Communication, Religion and the Arts	3
THAR 201	Introduction to World Theatre	3
THAR 281	History of the Theatre II	3

Courses in this category focus on the appreciation and analysis of creative artifacts and works of the human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, team work, and social responsibility.

## American History – 6 SCH

Code	Title	Semester Credit Hours
AFST 300/ HIST 300	Blacks in the United States, 1607-1877	3
AFST 301/ HIST 301	Blacks in the United States Since 1877	3
HIST 105	History of the United States	3
HIST 106	History of the United States	3
HIST 226	History of Texas	3
HIST 230	American Military History, 1609 to Present	3
HIST 232	History of American Sea Power	3
HIST 258	American Indian History	3
HIST 300/ AFST 300	Blacks in the United States, 1607-1877	3
HIST 301/ AFST 301	Blacks in the United States Since 1877	3
HIST 304	Southwest Borderlands	3

Courses in this category focus on the consideration of past events and ideas relative to the United States, with the option of including Texas History for a portion of this component area. Courses involve the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, social responsibility, and personal responsibility.

## Government/Political Science – 6 SCH

Code	Title	Semester Credit Hours
POLS 206	American National Government	3
POLS 207	State and Local Government	3

Courses in this category focus on consideration of the Constitution of the United States and the constitutions of the states, with special emphasis on that of Texas. Courses involve the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, social responsibility, and personal responsibility.

## Social and Behavioral Sciences – 3 SCH

Code	Title	Semester Credit Hours
AGEC 105	Introduction to Agricultural Economics	3
AGEC 235	Foundations of Money Education	3
AGEC 350	Environmental and Natural Resource Economics	3
ALEC 450	Global Social Justice Issues in Agriculture	3
ANTH 201	Introduction to Anthropology	3
ANTH 202	Introduction to Archaeology	3
ARCH 212	Social and Behavioral Factors in Design	3
ARCH 458	Cultural and Ethical Considerations for Global Practice	3
COMM 315	Interpersonal Communication	3
COMM 320	Organizational Communication	3
COMM 325	Persuasion	3
COMM 335	Intercultural Communication	3
COMM 365/ JOUR 365	International Communication	3
ECON 202	Principles of Economics	3
ECON 203	Principles of Economics	3
EPSY 320	Child Development	3
EPSY 321	Adolescent Development	3
GEOG 201	Introduction to Human Geography	3
HLTH 236	Introduction to Health Disparities and Diversity	3
HORT 335	Sociohorticulture	3
INST 210	Understanding Special Populations	3
INST 222	Foundations of Education in a Multicultural Society	3
INST 301	Educational Psychology	3
JOUR 102	American Mass Media	3
JOUR 365/ COMM 365	International Communication	3
KINE 282	Culture of Wellness	3
MARS 210	Marine Geography	3
PSYC 107	Introduction to Psychology	3
SOCI 205	Introduction to Sociology	3

SOCI 206	Global Social Trends	3
SOCI 207/ WGST 207	Introduction to Gender and Society	3
SOCI 210	Sociology of Technology and Science	3
SOCI 211	Sociology of Deviance	3
SOCI 212	Sociology of Popular Culture	3
SOCI 217	Introduction to Race and Ethnicity	3
SOCI 304	Criminology	3
SOCI 312	Population and Society	3
SOCI 313	Military, War and Society	3
SOCI 314	Social Problems	3
SOCI 315/ WGST 315	The Marriage Institution	3
SOCI 319/ SPMT 319	Sociology of Sport	3
SPMT 304	Sport Psychology Management and Practice	3
SPMT 319/ SOCI 319	Sociology of Sport	3
SPMT 336	Diversity in Sport Organizations	3
SPMT 337	International Sport Business	3
URPN 201	The Evolving City	3
URPN 202	Building Better Cities	3
URPN 361	Urban Issues	3
URPN 370	Health Systems Planning	3
WGST 207/ SOCI 207	Introduction to Gender and Society	3
WGST 315/ SOCI 315	The Marriage Institution	3

Courses in this category focus on the application of empirical and scientific methods that contribute to the understanding of what makes us human. Courses involve the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture. The following skills will be addressed in the courses that comprise this area: critical thinking, communication, empirical and quantitative, and social responsibility.

<sup>1</sup> Applicable courses are listed in the Texas Higher Education Coordinating Board course inventory as meeting either the Mathematics or the Component Area Option Foundational Component Area.

<sup>2</sup> Applicable courses are listed in the Texas Higher Education Coordinating Board course inventory as meeting either the Life and Physical Sciences or the Component Area Option Foundational Component Area.

*Undergraduate Studies' units have modified services available to students enrolled via distance education, at branch campuses, or at other instructional locations.*