MEMORANDUM

From: Commanding Officer, NROTC Unit, The University of Arizona
To: Company and Staff, NROTC Unit, The University of Arizona

Subj: APPROVED ACADEMIC COURSES FOR NROTC UNIT, THE UNIVERSITY OF ARIZONA

Ref: (a) CNSTCINST 1533.2A
(b) University of Arizona Course Catalog

Encl: (1) Approved Calculus and Physics Course List
(2) Approved World Cultural and Regional Studies Course List
(3) Approved English Course List
(4) Approved American History and National Security Policy Course List
(5) Approved Algebra and Trigonometry Course List

1. Reference (a) specifies that a minimum of six credits of Calculus courses and six credits of Physics courses be taken by all Naval ROTC Navy Option Scholarship and designated STA-21 students. Approved class lists are noted in enclosure (1).

2. Reference (a) specifies that a minimum of three credits of World Cultural and Regional Studies courses be taken by all Naval ROTC Navy Option Scholarship, College Program, Nurse option, and designated STA-21 students.

3. Reference (a) specifies that a minimum of six credits of English courses must be taken by all students. Approved class lists are noted in enclosure (3).

4. Reference (a) specifies that a minimum of three credits of American History or National Security Policy courses be taken by all students except Nurse Option students and designated STA-21 students. Approved class lists are noted in enclosure (4).

5. Reference (a) specifies that a minimum of six credits of College Algebra or Advanced Trigonometry courses be taken by...
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College Program and designated STA-21 students. Approved class lists are noted in enclosure (5). Calculus courses listed in enclosure (1) also satisfy these requirements.

6. The Physical Science requirement in reference (a) for College Program and designated STA-21 students will be approved on a case by case basis.

7. Further information regarding each class can be found in reference (b).

8. Waivers to this list will be considered on a case by case basis. Students desiring waiver considerations shall submit a special request chit to the Professor of Naval Science via the chain of command.

M.L. KUHN
Approved Calculus and Physics Course List

**Calculus**

MATH 122A/B - Functions for Calculus/First Semester Calculus (5 units)

**Description:** Taken in conjunction with each other. Math 122A covers elementary functions, their properties, and uses in modeling. A graphing calculator is required for this course. Math 122B is an introduction to first-semester calculus for engineering, science, and math students, from rates of change to integration with an emphasis on understanding, problem solving, and modeling. Topics covered include key concepts of derivative and definite integral, techniques of differentiation, and applications, using algebraic and transcendental functions. Examinations are proctored.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Prerequisite(s):** Appropriate Math Placement Level or Proctored/Prep for Calculus 70+, or MATH 120R, (MATH 110 TC OK and 111), (MATH 112 TC OK and 111), or (MATH 111 TC OK and MATH 112).

**Equivalent To:** MATH 113, MATH 113-CC, MATH 124, MATH 125, MATH 125-CC

**Usually Offered:** Fall, Spring, Summer 1 and 2.

MATH 124 - Calculus I with Applications (5 units)

**Description:** Introduction to calculus with an emphasis on understanding and problem solving. Concepts are presented graphically and numerically as well as algebraically. Elementary functions, their properties and uses in modeling; the key concepts of derivative and definite integral; techniques of differentiation, using the derivative to understand the behavior of functions; applications to optimization problems in physics, biology, and economics. A graphing calculator is required in this course. Students must have credit for Math 120R, or, both Math 112 and Math 111 with a grade of C or higher in order to be eligible to register for this course. Except as per University policy on repeating a course, credit will not be given for this course if the student has credit in a higher level math course. Such students may be dropped from the course. Examinations are proctored.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Prerequisite(s):** Appropriate Math Placement Level or Proctored/Prep for Calculus 75+, or MATH 120R, (MATH 110 TC OK and 111), (MATH 112 TC OK and 111), or (MATH 111 TC OK and MATH 112) or MATH 125.

**Equivalent To:** MATH 113, MATH 113-CC, MATH 122B, MATH 125, MATH 125-CC

**Usually Offered:** Fall, Spring, Summer 1 and 2.

MATH 125 - Calculus I (3 units)

**Description:** An accelerated version of MATH 124. Introduction to calculus with an emphasis on understanding and problem solving. Concepts are presented graphically and numerically as well as algebraically. Elementary functions, their properties and uses in modeling; the key concepts of derivative and definite integral; techniques of differentiation, using the derivative to understand the behavior of functions; applications to optimization problems in physics, biology, and economics. A graphing calculator is required for this course. Registration in math courses numbered 125 or below, 160, and 263, requires all students, including transfer students with or without college level math credit, to take the UA Math Readiness Test. Credit will not be given for this course if the student has credit in a higher level math course; these students will be dropped from the course. Students with unusual circumstances can petition the Mathematics Department for exemption from this
rule. This policy does not infringe on the student's rights granted by the university policy on repeating a course.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Prerequisite(s):** Appropriate Math Placement Level or Proctored/Prep for Calculus 90+ or MATH 125.

**Equivalent to:** MATH 113, MATH 113-CC, MATH 122B, MATH 124, MATH 125-CC

**Usually Offered:** Fall, Spring.

**MATH 129 - Calculus II (3 units)**

**Description:** Continuation of MATH 124 or MATH 125. Techniques of symbolic and numerical integration, applications of the definite integral to geometry, physics, economics, and probability; differential equations from a numerical, graphical, and algebraic point of view; modeling using differential equations, approximations by Taylor series. A graphing calculator is required for this course. We recommend the TI-83 or TI-84 models. Calculators that perform symbolic manipulations, such as the TI-89, NSpire CAS, or HP50g, cannot be used. Examinations are proctored.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Prerequisite(s):** MATH 124 or MATH 125 WITH A GRADE OF C OR HIGHER. Credit allowed for only one of the following: MATH 129 or Math 250A.

**Equivalent to:** MATH 125B, MATH 129-CC

**Usually Offered:** Fall, Spring, Summer 1 and 2.

**MATH 223 - Vector Calculus (4 units)**

**Description:** Vectors, differential and integral calculus of several variables. Examinations are proctored.

**Grading:** Regular grades are awarded for this course: A B C D E or the option for Pass/Fail.

**Prerequisite(s):** MATH 129 or MATH 250A with a grade of C or higher.

**Usually Offered:** Fall, Spring, Summer 1 and 2.

**MATH 250A - Calculus and Differential Equations I (3 units)**

**Description:** Integral calculus with applications, techniques of integration, solving first order differential equations using separation of variables, introduction to autonomous first order differential equations. The sequence MATH 250A-250B substitutes for the pair of courses MATH 129-254 or the pair MATH 129-355; however, MATH 250A alone does not substitute for MATH 129.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Prerequisite(s):** A score of 4 or 5 on the *AB* Advanced Placement Calculus Exam, consent of instructor. Credit allowed for only one of the following: MATH 250A or MATH 129.

**Usually Offered:** Fall.

**MATH 250B - Calculus and Differential Equations II (3 units)**

**Description:** First order differential equations and modeling, approximations and series, second order differential equations, linear and nonlinear autonomous systems. The sequence MATH 250A-250B substitutes for the pair of courses MATH 129-254 or the pair MATH 129-355; however, MATH 250B alone does not substitute for MATH 254 or MATH 355.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Prerequisite(s):** MATH 250A. Credit allowed for only one of the following: MATH 250B, MATH 254, or MATH 355.

**Equivalent To:** MATH 254, MATH 254-CC, MATH 355, MATV 355

**Usually Offered:** Fall, Spring.
Physics

PHYS 141 - Introductory Mechanics (4 units)
**Description:** A first course in Newtonian mechanics; introduces freshman-level students to the statics and dynamics of point particles, rigid bodies, and fluids. Topics include vector algebra, projectile and circular motion, Newton's Laws, conservation of energy, collisions and conservation of momentum, rotational dynamics and conservation of angular momentum, statics, harmonic oscillators and pendulums, gravitation and Kepler's Laws, fluid statics and dynamics.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Course Fee:** $50.00.

**Prerequisite(s):** MATH 124 or MATH 125; Concurrent registration, MATH 129.

Credit will be allowed for only one of the following sequences of courses:

**Typical Structure:** Lecture and Laboratory

**Usually Offered:** Fall, Spring, Summer 1 and 2.

PHYS 142 - Introductory Optics and Thermodynamics (3 units)

**Description:** A freshman-level course in the fundamental properties of light and heat and related applications such as optical instruments and heat engines; introduces students to the propagation of light and heat. Topics include temperature scales and heat, laws of thermodynamics, basic kinetic theory of gases, heat engines, elementary wave theory and sound, light as an electromagnetic wave, geometrical optics, lenses and mirrors, physical optics, diffraction and interference, optical instruments.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Course Fee:** $50.00.

**Prerequisite(s):** PHYS 141 and MATH 129. Credit will be allowed for only one of the following sequences of courses:

**Equivalent To:** PHYS 103, PHYS 103-CC, PHYS 132, PHYS 132-CC, PHYS 143, PHYS 152, PHYS 162H

**Typical Structure:** Lecture and Laboratory

**Usually Offered:** Fall, Spring.

PHYS 161H - Honors Introductory Mechanics (4 units)

**Description:** A freshman-level course in Newtonian mechanics, taught at an accelerated level; introduces freshman-level students to the statics and dynamics of point particles, rigid bodies, and fluids. Topics include vector algebra, projectile and circular motion, Newton's Laws, conservation of energy, collisions and conservation of momentum, rotational dynamics and conservation of angular momentum, statics, harmonic oscillators and pendulums, gravitation and Kepler's Laws, fluid statics and dynamics.

**Grading:** Regular grades are awarded for this course: A B C D E.

**Course Fee:** $50.00.

**Prerequisite(s):** MATH 124 or MATH 125; Concurrent registration, MATH 129.

Credit will be allowed for only one of the following sequences of courses:

**Typical Structure:** Lecture and Laboratory

**Usually Offered:** Fall, Spring.
PHYS 162H - Honors Introductory Optics and Thermodynamics (4 units)
Description: A freshman-level course in the fundamental properties of light and heat, taught at an accelerated level; introduces students to the propagation of light and heat and related applications such as optical instruments and heat engines. Topics include temperature scales and heat, laws of thermodynamics, kinetic theory of gases and elementary statistical mechanics, heat engines, elementary wave theory and sound, light as an electromagnetic wave, geometrical optics, lenses and mirrors, physical optics, diffraction and interference, optical instruments.
Grading: Regular grades are awarded for this course: A B C D E.
Course Fee: $50.00.
Prerequisite(s): (PHYS 141 or PHYS 140 or PHYS 161H, including transfer and AP credit) and (MATH 129 or MATH 250A or appropriate Math Placement Level, including transfer and AP credit). Honors active.
Typical Structure: Lecture and Laboratory
Usually Offered: Fall, Spring.

PHYS 241 - Introductory Electricity and Magnetism (4 units)
Description: A first course in electromagnetic fields and their applications. Coulomb's and Gauss' Law, electric fields and potentials, electrical and magnetic properties of matter, Ampere's and Faraday's laws, elementary DC and AC circuits, Maxwell's equations. Grading: Regular grades are awarded for this course: A B C D E.
Course Fee: $50.00.
Prerequisite(s): PHYS 141; Concurrent registration: MATH 223 is recommended but not required. Some elementary vector calculus will be taught in class.
Credit will be allowed for only one of the following sequences of courses; PHYS 141-142-241-242, 151-152-251-252.
Equivalent To: PHYS 240, PHYS 241H, PHYS 251, PHYS 261H
Typical Structure: Lecture and Laboratory
Usually Offered: Fall, Spring, Summer 1 and 2.

PHYS 242 - Introductory Relativity and Quantum Physics (3 units)
Description: A first course in relativistic and quantum concepts developed in the 20th century. Lorentz transformation, relativistic kinematics, basic relativistic dynamics, quantization of energy and angular momentum, atomic and molecular structure, nuclear and elementary particle physics, quantum statistics.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): PHYS 141, PHYS 142, PHYS 241, MATH 223. Credit will be allowed for only one of the following sequences of courses; PHYS 102-103-181-182, 131-132-181-182, 141-142-241-242, 151-152-251-252.
Special Exam: Course may be taken by special exam for credit (not for grade).
Usually Offered: Fall, Spring.
Approved World Cultural and Regional Studies Course List

AFAS 160A1 - The Africana Experience (3 units)
Description: This course will introduce students to fundamental issues and concepts in the Africana experience in the United States, Africa, and the Caribbean, from an interdisciplinary perspective. Principle topics of discussion will be drawn from areas of history, philosophy, political-economy, literature and the arts, religion-culture and society.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Prerequisite(s): Enrollment not allowed if you have previously taken TRAD 101 "The Africana Experience" (Topic 2).
Usually Offered: Fall, Spring.

AFAS 223 - African Philosophical Worlds (3 units)
Description: Course acquaints students with the theoretical and philosophical ideas expressed by thinkers of the African world. Issues in epistemological relativism, ethics, political philosophy and the history of ideas is examined.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 2 Individuals and Societies
Equivalent To: PHIL 223
Usually Offered: Fall, Spring.

AFAS 249 - Images of Africa (3 units)
Description: Introduction to African life and culture through explorations in the following areas: history, geography, institutions, the arts, and language and literature. Taught in English. Does not count toward fulfillment of language requirement, or the major or minor in French.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 2 Humanities
Equivalent To: AAS 349, AAS 449, AFAS 349, 449, FREN 249, FREN 349, FREN 449
Usually Offered: Fall.

AFAS 381 - African/Indigenous Religions (3 units)
Description: This course examines religious beliefs in Africa in order to illuminate connections between religion and culture on that continent, and to examine the relationship between religio-culture and the socio-economic and political forces that shape contemporary African societies.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 2 Humanities
Equivalent To: AIS 381, RELI 381
Usually Offered: Spring.

Enclosure (2)
AFAS 468 - Government and Politics of Africa (3 units)
Description: Government and politics of African nations south of the Sahara; emphasis on processes of political and economic development. This is a writing emphasis course.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Prerequisite(s): POL 204.
Equivalent To: AAS 468, BLS 468, POL 468
Usually Offered: Fall, Spring.

CHN 245 - Chinese Popular Culture (3 units)
Description: This course is an introduction to contemporary Chinese popular culture. It explores popular culture's relations to social change, public spaces, the state, individual freedom, collective justice, national identity and globalization.
Grading: Regular grades are awarded for this course: A B C D E.
Course Fee: $51.00.
Approved As: General Education: Diversity Emphasis.
Approves As: General Education: Tier 2 Humanities
Usually Offered: Fall, Spring.

CHN 275 - History of China (3 units)
Description: Historical development of China to 750 A.D.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Equivalent To: CHN 375, HIST 275, HIST 375
Usually Offered: Fall.

CHN 276 - History of China (3 units)
Description: Historical development of China from 750 A.D. to 1900 A.D.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Equivalent To: CHN 276-CC, CHN 376, HIST 276
Usually Offered: Fall.

CHN 410A - Ethnic Diversity in China (3 units)
Description: This course explores the wide diversity among the minority peoples in China. It examines ethnic minority peoples' histories, cultures, and relationship to the Han majority and other minority populations. It also discusses theories of ethnicity, nationalism and globalization.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: ANTH 410A
Usually Offered: Fall, Spring.

CHN 444 - Chinese Media & Culture (3 units)
Description: This course investigates social, cultural, economic, and political aspects of mass media and visual culture in China. It examines various types of media, including print, mechanical, electronic, and digital media. It focuses on major theoretical perspectives and models.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall, Spring.

CHN 468 - Women in China (3 units)
Description: Analysis of the role of women in Chinese society with equal emphasis on traditional and modern periods.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
CHN 476 - Modern China (3 units)
Description: Survey of political, social, economic and cultural transformations undergone by China from ca. 1800 to the present. Provides students with a sense of both the major themes and the substance of the last two centuries of history of one of the world's major civilizations, as well as a better understanding of China's prominent position in the world today.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: CHN 476-CC, HIST 476, HIST 476-CC, ORS 476
Usually Offered: Fall, Spring.

CHN 482 - Social History of China (3 units)
Description: Formation of ancient Chinese society; organization of families and clans; social stratification, mobility, conflict, and control in traditional China; and transformation from traditional to modern society.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Equivalent To: HIST 482, ORS 482
Usually Offered: Fall, Spring.

EAS 160A3 - Chinese Civilization (3 units)
Description: Introduces you to traditional Chinese civilization for the purposes of this course defined as: "the totality of a culture's perception of itself and the world it occupies and the ways in which that self-perception is expressed in society, politics, religion, philosophy, and the arts." The content of the course is arranged in thematic units, each unit being placed in the context of a specific historical period. We will examine the religious symbolism of ancient Chinese bronze vessels, Chinese theories of nature based on concepts like Yin and Yang, the great medieval religions of Taoism and Buddhism, and other topics. Over the semester you will learn to think more like the Chinese of centuries past to exercise your imagination, and to explore a world that is different from your own.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 1 Traditions and Cultures
Prerequisite(s): Enrollment not allowed if you have previously taken TRAD 101 "Chinese Civilization" (Topic 12).
Usually Offered: Fall, Spring.
EAS 160A5 - Languages and Cultures of East Asia (3 units)
Description: This course will explore the social, historical, and linguistic aspects of the languages and cultures of East Asia and how they have changed over time, drawing from anthropology, linguistics, sociology, and history.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Prerequisite(s): Enrollment not allowed if you have previously taken TRAD 101 "Languages and Cultures of East Asia" (Topic 18).
Usually Offered: Fall, Spring.

EAS 270 - Modern East Asia (3 units)
Description: Introductory survey of recent histories of China, Japan and Korea, focusing on the major watersheds in these countries' modern experiences. The roles of indigenous culture and forces of change as well as foreign influences will be considered.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: EAS 270-CC, HIST 270, HIST 270-CC, ORS 270
Usually Offered: Fall, Spring.

EAS 466 - Japanese and Chinese Nationalism (3 units)
Description: Though China and Japan share many civilizational traits, they have produced radically different political systems. Using the intellectual prism of "nationalism", this course explores how Japan and China have reacted to the "every people a polity" principle (nationalism).
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: POL 466
Usually Offered: Fall, Spring.

EAS 484A - History of East Asian Buddhism (3 units)
Description: Buddhism in China, Korea and Japan with emphasis on the relationship between East Asian Buddhist thought and practice and the various historical contexts in which they emerged.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Equivalent To: EAS 487A, HIST 487A, ORS 487A, RELI 484A, RELI 487A
Usually Offered: Fall.

EAS 484B - History of East Asian Buddhism (3 units)
Description: Buddhism in China, Korea and Japan with emphasis on the relationship between East Asian Buddhist thought and practice and the various historical contexts in which they emerged.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Equivalent To: EAS 487B, HIST 487B, ORS 487B, RELI 484B, RELI 487B
Usually Offered: Spring.

HIST 272 - Japanese Civilization (3 units)
Description: The study of the evolution of Japanese social values, aesthetic expression, religion and political institutions in order to understand Japan's cultural heritage and contemporary society.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Equivalent To: JPN 272, ORS 272
Usually Offered: Fall.
HIST 277A - History of the Middle East (3 units)
Description: Middle East history from the rise of Islam to the Turkish conquest of Constantinople, 600-1453.
Grading: Regular grades are awarded for this course: A B C D E.
Approves As: General Education: Tier 2 Humanities
Equivalent To: MENA 277A, NES 277A, NES 477A, RELI 277A
Usually Offered: Fall.

HIST 277B - History of the Middle East: Modern Middle East (3 units)
Description: Modern Middle East: the Ottoman Empire, Iran, and the Arab lands, 1453-present.
Grading: Regular grades are awarded for this course: A B C D E.
Approves As: General Education: Tier 2 Humanities
Prerequisite(s): NES 277A is not prerequisite to NES 277B.
Equivalent To: MENA 277B, NES 277B
Usually Offered: Spring.

HIST 372A - History and Religion of Israel in Ancient Times -- The Biblical Period (3 units)
Description: Survey of the history and religion of ancient Israel. Biblical period through the Babylonian Exile; introduction to the Hebrew Bible.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 2 Humanities
Prerequisite(s): Two courses from Tier One, Traditions and Cultures (TRAD 101, 102, 103, 104).
Equivalent To: JUS 372A, MENA 372A, NES 372A, ORS 372A, RELI 372A
Usually Offered: Fall.

HIST 376 - Communist China: History and Narrative (3 units)
Description: This course looks at history of post-1949 China from two different perspectives. Students will read "proper" historical texts: political and intellectual essays, government documents, social reports, and scholarly historical monographs. These will be juxtaposed to different forms of narrative construction: movies, novels, and autobiographical accounts. With this integrated approach, the course examines the history of the People's Republic of China but also the continuous interplay between historiography and politics, history and memory, popular culture and learning.
Grading: Regular grades are awarded for this course: A B C D E or the option for Pass/Fail.
Equivalent To: EAS 376, EAS 376-CC, HIST 376-CC
Usually Offered: Fall, Spring.
HIST 380 - Introduction to the Arab Spring (3 units)
Description: The revolutions and uprisings of the 2011 "Arab Spring" are undoubtedly the most significant democratic transformations since the fall of the Soviet Union. The extent of such revolutions has yet to be realized, yet it is essential to understand their origins and developments. This course will use "Arab Spring" as a lens for introducing students to the political systems, social issues, youth culture, new social media, international alliances, and cultural values of the Arab world.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall, Spring.

JPN 220 - Religion in Japanese Society (3 units)
Description: Introduction to texts, images and activities, both historical and contemporary, that comprise Japanese religion.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Prerequisite(s): Two courses from Tier One, Traditions and Cultures (Catalog numbers 160A, 160B, 160C, 160D).
Equivalent To: HUM 220, RELI 220
Usually Offered: Fall, Spring.

JPN 310 - Japanese Literature and War (3 units)
Description: Experiences of Japanese men and women in the second world war as portrayed in short stories, novels, and poetry written in Japan since the end of the war. All readings done in English translation. This is a writing emphasis course.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Usually Offered: Fall.

NES 150CI - Islamic Civilization: Traditional & Modern Middle East (3 units)
Description: Societal & Institutional Systems - This course will introduce students to the basic principles of the religion of Islam and its historical development from the seventh century to the present day. We will focus on Islam as a culture by asking how it spread and changed, how it produced traditions and institutions, and how it has both shaped and adapted to the realities of the modern world. The course will ask students to consider the religion and civilizations of the Islamic world as dynamic processes by looking for patterns of structure formation, institutionalization, change and decline in the political, economic, military and cultural realms. While the main focus will be on the Middle East heartland of classical Islam, the spread of Islam to Africa, South and Southeast Asia and the west will also be examined. Students will be expected to illustrate mastery of basic geographical, historical and doctrinal information, as well as to show increasing ability to critically evaluate certain central questions with regard to a variety of historical and geographical contexts and to mobilize evidence in defense of their views.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Tier 1 Individuals and Societies
Usually Offered: Fall, Spring.
NES 160A1 - The Religion of Islam (3 units)
Description: Non-Western Cultures and Civilizations - This course provides an overview of the Qur'an, life and teachings of Muhammad, and the differences between Sunni and Shi'i Islam. Students also receive an introduction to Islamic intellectual traditions and cultures.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis
Approved As: General Education: Tier 1 Traditions and Cultures
Usually Offered: Fall, Spring.

NES 160A2 - Middle Eastern Humanities (3 units)
Description: Non-Western Cultures and Civilizations - Introduces students to the values, traditions, and development of Middle Eastern (Islamic) culture and civilization. This course is designed to familiarize students with the principal achievements in art, architecture and literature of Islamic civilization, to help students understand these achievements in their social and cultural contexts, and to consider the historical evolution of our knowledge and understanding of these achievements.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 1 Traditions and Cultures
Usually Offered: Fall, Spring.

NES 277A - History of the Middle East (3 units)
Description: Middle East history from the rise of Islam to the Turkish conquest of Constantinople, 600-1453.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Tier 2 Humanities
Equivalent To: HIST 277A, MENA 277A, NES 477A, RELI 277A
Usually Offered: Fall.

NES 334 - Islamic Thought (3 units)
Description: A consideration of Islam, one of the world's major religions, and the view of the universe and the modes of behavior and values it advocates. Most of the course will be dedicated to an examination of the majority (Sunni) opinion, but some attention will be directed also to the more significant minority (Shi'i, et al.) positions as well. The course has no prerequisite but does build on the information presented in TRAD 101 Middle Eastern Humanities.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 2 Individuals and Societies
Equivalent To: MENA 334, NESV 334, RELI 334, RELV 334
Usually Offered: Spring.

NES 377 - Modern Israel (3 units)
Description: Evolution of the State of Israel from the rise of Zionism in 19th Century Europe to the present. Survey of the origins of the State of Israel from the rise of Zionism in 19th Century Europe to the Declaration of the State of Israel in 1948. Evolution of the State of Israel from 1949 to the present. Emphasis on interactive generative processes and understanding of the interplay between past processes and present socio-political realities.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: HIST 377, JUS 377, JUS 377-CC, MENA 377, POL 377
Usually Offered: Fall.
NES 441 - Arab-Israeli Conflict (3 units)
Description: Traces the birth and growth of the Arab-Israeli conflict since 1948 with particular attention to the internal impediments to conflict resolution on both the Arab and Israeli sides. Also surveys the role of the Great Powers in Middle East politics generally.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Prerequisite(s): POL 202.
Equivalent To: MENA 441, ORS 441, POL 441
Usually Offered: Fall, Spring, Summer 1 and 2.

NES 444 - Islamic Mysticism (3 units)
Description: Origin and development of Sufism and its impact on Muslim and non-Muslim worlds.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: HIST 444, HIST 487, MENA 444, NES 467, ORS 432, RELI 432, RELI 444
Usually Offered: Spring.

RELI 381 - African/Indigenous Religions (3 units)
Description: This course examines religious beliefs in Africa in order to illuminate connections between religion and culture on that continent, and to examine the relationship between religio-culture and the socio-economic and political forces that shape contemporary African societies.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Diversity Emphasis.
Approved As: General Education: Tier 2 Humanities
Equivalent To: AFAS 381, AIS 381
Usually Offered: Spring.
Approved English Course List

ENGL 101 - First-Year Composition (3 units)
Description: Exposition, emphasis on essays.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): ENGL 100 completed/passed with grade C or higher. (English placement 101).
Usually Offered: Fall, Spring.

ENGL 102 - First-Year Composition (3 units)
Description: Critical papers on selected subjects.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): ENGL 101.
Usually Offered: Fall, Spring.

ENGL 103H - First-Year Composition (3 units)
Description: Exposition for advanced students.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Student must be active in the Honors College.
Usually Offered: Fall, Spring.

ENGL 104H - Critical Papers and Projects for Advanced Students (3 units)
Description: Critical papers for advanced students.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Student must be active in the Honors College.
Usually Offered: Fall, Spring.

ENGL 109H - Advanced First-Year Composition (3 units)
Description: Critical papers.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): English Placement based on Composite Score/Writing Placement Exam or required AP/IB scores.
Usually Offered: Fall, Spring.
Note: Completion of 109H with a grade of C or better satisfies the six unit requirement.

ENGL 201 - Introduction to the Writing of Creative Nonfiction (3 units)
Description: This course is intended to give students a practical understanding of beginning techniques of nonfiction writing, taught through exercises, the writing of original nonfiction, and readings in contemporary nonfiction. The course complements existing courses in poetry (ENGL209) and fiction (ENGL210). All three courses are intended to improve undergraduate education by providing contact hours with Creative Writing faculty members early in the undergraduate's course of study.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Tier 2 Arts.
Prerequisite(s): ENGL 101, ENGL 102.
Usually Offered: Fall, Spring.
ENGL 210 - Introduction to the Writing of Fiction (3 units)
Description: Beginning techniques of fiction writing, taught through exercises, the writing of original fiction, and readings in contemporary fiction.
Grading: Regular grades are awarded for this course: A B C D E.
Approved As: General Education: Tier 2 Arts.
Prerequisite(s): Completion of freshman composition sequences.
Usually Offered: Fall, Spring.
Approved American History and National Security Policy Course List

HIST 315 - United States Military History (3 units)
Description: Survey of American wars from colonial times to the present; military institutions, doctrine, application of the principles of war, campaign strategies and tactics, technology, and leadership.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall.

HIST 332 - Vietnam and the Cold War (3 units)
Description: Causes and effects of America’s longest war in light of global U.S.-Soviet rivalry and Asian nationalism.
Grading: Regular grades are awarded for this course: A B C D E or the option for Pass/Fail.
Usually Offered: Summer 1 and 2.

HIST 432 - The Era of the American Revolution (3 units)
Description: Origins, progress, and character of the American Revolution; social, cultural, political, and economic developments; and the making of the Constitution.
Grading: Regular grades are awarded for this course: A B C D E.
May be Convened With: HIST 532
Usually Offered: Spring.

HIST 435 - The Coming of the Civil War, U.S. 1845-1861 (3 units)
Description: Political, constitutional, social and economic developments in the U.S. from the Mexican War through the Civil War.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: AAS 435, AFAS 435, AFAS 435-CC, BLS 435, HIST 435-CC
Usually Offered: Fall.

HIST 436 - Civil War and Reconstruction, U.S. 1861-1878 (3 units)
Description: Political, constitutional, economic, and military developments in the U.S. and the Confederacy during and after the Civil War.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: AAS 436, AFAS 436, AFAS 436-CC, BLS 436, HIST 436-CC, HSTV 436
Usually Offered: Spring.

HIST 438 - U.S. 1918-1945: From World War I through World War II (3 units)
Description: Prosperity, Depression and the New Deal in peace and war.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: HSTV 438
Usually Offered: Fall, Spring.

HIST 440 - United States: 1945 to Present (3 units)
Description: American society and the role of the United States in world affairs from the Yalta Conference to the present.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: HIST 440-CC, HSTV 440
Usually Offered: Fall, Spring.
HIST 449 - History of American Foreign Relations to 1914 (3 units)
Description: Examines the rise of America from a struggling colony to a world class power, including its relations with Europe, Latin America and Asia.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): 3 units of any U.S. history course.
Usually Offered: Fall.

HIST 450 - History of American Foreign Relations Since 1914 (3 units)
Description: Examines the pivotal role played by the United States in world affairs since 1898, focusing on America's struggle with revolutionary movements in Europe, Asia and Latin America.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): 3 units of any U.S. history course.
Usually Offered: Spring.

HIST 451 - The United States and East Asia: 1840 to the Present (3 units)
Description: An examination of American interaction with Japan and China since the Opium Wars, with special attention given to economic, cultural, and military relations and conflicts.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): 3 units of any U.S. history course.
Equivalent To: EAS 451, ORS 451
Usually Offered: Spring.

POL 202 - International Relations (3 units)
Description: Study of the international system, its actors and their capabilities; ends and means of foreign policy; international tension, conflict, and cooperation.
Grading: Regular grades are awarded for this course: A B C D E.
Approves As: General Education: Tier 2 Individuals and Societies
Prerequisite(s): Two courses from Tier One, Individuals and Societies (Catalog numbers 150A, 150B, 150C).
Usually Offered: Fall, Spring.

POL 236 - Globalization and Security (3 units)
Description: This course will cover the relationship between the globalization of key world systems and changes in systems of security maintained in and across the nations.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: PA 236
Usually Offered: Spring.

POL 365 - Contemporary International Politics (3 units)
Description: Analysis of conflicts of national interests; decision making in the present international system; role-playing and simulation experience.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): POL 202.
Equivalent To: GPSV 312, POL 365-SA, POLV 365
Usually Offered: Fall, Spring.
POL 419 - Governance, Security, State Formation and Terrorism (3 units)
Description: This course addresses how the formation of the state has been affected by war and will be increasingly affected by more modern security concerns such as terrorism.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: PA 419

POL 455 - American Foreign Policy (3 units)
Description: Analysis of the Cold War; Congressional-Executive clashes over foreign policy control; approaches to policy analysis. This is a writing emphasis course.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): POL 202.
Equivalent To: GPSV 441, POLV 455
Usually Offered: Fall, Spring.

POL 462 - Armed Conflict and Conflict Management (3 units)
Description: This course will survey the many issues surrounding the management and resolution of international and domestic conflicts.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): POL 202.
Equivalent To: GPSV 443, POL 462-SA, POLV 462
Usually Offered: Spring.

POL 477 - Comparative History of World Revolutions (3 units)
Description: This course examines the historical context against the theoretical, cultural, political, social, and economic elements of sudden revolutionary upheaval. Revolutions from the French Revolution of 1789 to the Cuban Revolution of 1959 will be studied.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: HIST 477, LAS 477
May be Convened With: POL 577
Usually Offered: Fall.

POL 479 - Intelligence and US National Security (3 units)
Description: Overview of the role of intelligence in the formulation and execution of US national security policy. Will include a detailed look at challenges facing both the analysis of intelligence information and the introduction of that analysis into the national security policy process. Will also entail close reading and discussion of selected declassified intelligence documents.
Grading: Regular grades are awarded for this course: A B C D E.
Equivalent To: PA 479
Usually Offered: Fall.

POL 485 - National Security Policy (3 units)
Description: Decision-making structures, processes, and outcomes relevant to American security policy; comparison with major foreign powers.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): POL 201.
Equivalent To: GPSV 314, POLV 485
Usually Offered: Fall.
NS 310 - Evolution of Warfare (3 units)
Description: The development of warfare to present, focusing on theorists, strategists, tacticians, and technological developments. Student acquires sense of strategy and impact of precedent on military actions.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall, Spring.

NS 410 - Amphibious Warfare (3 units)
Description: Historical survey of the development of amphibious doctrine and amphibious operations, with emphasis on the evolution of amphibious warfare in the 20th century; present day potential and limitations on amphibious operations, including the rapid deployment force concept.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall, Spring.

MLS 320A - History of the U.S. Army 1607 to 1939 (3 units)
Description: Survey the use of military power from 1607 to 1939 in both war and peace. Examine the development of Army institutions, traditions, doctrine, the role of technology and the influence of key leaders on the use of the military as an instrument of foreign policy.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall.

MLS 320B - History of the U.S. Army: 1940 to Present (3 units)
Description: Survey the use of military power from 1940 to the present in both war and peace. Examine the development of Army institutions, traditions, doctrine, the role of technology and the influence of key leaders on the use of the military as an instrument of foreign policy.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Spring.

MLA 400A - National Security Affairs (3 units)
Description: Critical analysis of various aspects of the military in American society and its application and effects on the world political and economic environment.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Consult department before enrolling
Usually Offered: Fall.

MLA 400B - National Security Affairs (3 units)
Description: Critical analysis of various aspects of the military in American society and its application and effects on the world political and economic environment.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Consult department before enrolling
Usually Offered: Spring.

SGFP 300B - Politics, Policy, and Governance: The U.S. and the World (Part B) (3 units)
Description: Covering the areas of comparative politics and international relations, addresses important substantive areas such as international and domestic conflict and conflict management; political economy (international and national); political institutional design (both within states and international); interest articulation, aggregation, and elite-mass relations; politics of nationality and religion; and decision-making.
Grading: Regular grades are awarded for this course: A B C D E.
Usually Offered: Fall, Spring.
Approved Algebra and Trigonometry Course List

MATH 109C - Applied College Algebra with Data Analysis (3 units)
Description: College algebra course that emphasizes data analysis. Topics include functions, rates of change, linear functions, systems of equations, exponential & logarithmic functions, and quadratic functions. Graphing calculators and spreadsheets will be used. It is not intended for students planning to take MATH 124, and it will not serve as a prerequisite for that course. Except as per University policy on repeating a course, credit will not be given for this course if the student has credit in a higher level math course. Such students may be dropped from the course. Examinations are proctored. Credit will be allowed for only one of the following courses: MATH 109, MATH 109C, MATH 110, or MATH 112.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Appropriate Math Placement Level or Proctored/Prep for Calculus 45+ or Proctored/Prep for College Algebra 55+.
Usually Offered: Fall, Spring, Summer 1 and 2.

MATH 111 - Plane Trigonometry (2 units)
Description: Topics include right triangle trigonometry, trigonometric functions and graphs, trig identities, inverse trig functions, law of sines, and law of cosines. A graphing calculator is required for this course. We recommend the TI-83 or TI-84 models. Calculators that perform symbolic manipulations, such as the TI-89, NSpire CAS, or HP50g, cannot be used. Not applicable to the mathematics major or minor. Except as per University policy on repeating a course, credit will not be given for this course if the student has credit in a higher level math course. Such students may be dropped from the course. Examinations are proctored.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Appropriate Math Placement Level or Proctored/Prep for Calculus 45+ or Proctored/Prep for College Algebra 55+ or MATH 112.
Equivalent To: MATH 111-CC
Usually Offered: Fall, Spring.

MATH 112 - College Algebra Concepts and Applications (3 units)
Description: Topics include properties of functions and graphs, linear and quadratic equations, polynomial functions, exponential and logarithmic functions with applications. Students are expected to have a graphing calculator. MATH 112 may be substituted for MATH 110 in any university requirement or prerequisite. Registration in math courses numbered 125 or below, 160, and 263, requires all students, including transfer students with or without college level math credit, to take the UA Math Readiness Test. Credit will not be given for this course if the student has credit in a higher level math course; these students will be dropped from the course. Students with unusual circumstances can petition the Mathematics Department for exemption from this rule. This policy does not infringe on the student's rights granted by the university policy on repeating a course.
Grading: Regular grades are awarded for this course: A B C D E.
Prerequisite(s): Appropriate Math Placement Level or Proctored/Prep for Calculus 45+ or Proctored/Prep for College Algebra 55+.
Equivalent To: MATH 109, MATH 109C, MATH 110, MATH 110-CC, MATH 112-CC, MATH 120, MATH 120R, MATH 120R-CC
Usually Offered: Spring.