AFS 380-J Race and Ethnicity in Latin America and the Caribbean

Concepts and theories of race and ethnicity in Latin American and Caribbean settings. The historical evolution when the coursework social and cultural significance of racial and ethnic identities within the region are explored. Specific examples of social relations characterized by ethnic or racial conflict are presented. This course is offered as both AFS 380 and ANT 380.

Prerequisite: U3 or U4 standing
Advisory Prerequisite: AFS 240 or LAC 200
3 credits

AFS 381-H AIDS, Race, and Gender in the Black Community

Review of current biological and epidemiological knowledge about the HIV virus, and examination of the virus’ social impact on the Black community. This course is offered as both AFS 381 and WST 381.

Prerequisites: U3 or U4 standing; one D.E.C. category E course
3 credits

AFS 388-J Slavery in Latin America and the Caribbean

The institution of slavery and its impact on plantation societies in the Americas, with particular attention to Brazil and the Caribbean. Topics include conquest and enslavement, the formation of slave communities, African culture in Latin America, resistance and oppression, the process of emancipation, and race relations. This course is offered as both AFS 388 and HIS 388.

Prerequisite: One of the following: AFS 239, AFS 240, AFS 277, HIS 213, HIS 214, or LAC 200
3 credits

AFS 395-J Religions of the Caribbean

An ethnographic approach to the relationship among religion, social organization, and identity politics through studying cultural and historical bases of Christianity, Islam, Hinduism, and their related religious manifestations in the Caribbean. Class stratification, ethnic conflict, and fundamentalist movements are explored. This course is offered as both AFS 395 and ANT 395.

Prerequisite: U3 or U4 standing
Advisory Prerequisite: ANT 351
3 credits

AFS 396-K Topics in African American History

Semester supplements to this Bulletin contain description and prerequisite for this course. Topics may include Urban African-American history Since 1865, Slavery, Abolition and Emancipation 1600-Present. May be repeated for credit as the topic changes.

Prerequisites: AFS 101 or 102 or HIS 103 or HIS 104
3 credits

AFS 400 Ancient Egypt (KMT): Historical and Contemporary Views

An exploration of the rise and development of ancient Egypt (KMT) through study of Egyptian peoples, religions, cultural transformations, and monument building. Examines the periods of the Old Kingdom, Middle Kingdom, and New Kingdom and introduces students to the museum culture that has fueled ongoing interest over time. Particular attention to scholarly debates about the nature and composition of Egyptian society, including interpretations of ethnicity and identity.

Prerequisite: U3 or U4 standing
3 credits

AFS 421, 422 Topics in Africana Studies

Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: AFS 101 or 102 or two other courses in the social sciences
3 credits per course

AFS 447 Readings in Africana Studies

Individually supervised readings in selected topics in the Black Experience. May be repeated once.

Prerequisite: Permission of instructor
1-3 credits

AFS 475, 476 Undergraduate Teaching Practica I, II

Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. Not for major or minor credit. In AFS 476, students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. The course in which the student is permitted to work as a teaching assistant must be different from the course in which he or she previously served. Not for major or minor credit.

Prerequisites to AFS 475: African studies major or minor; U4 standing; permission of instructor
Prerequisites to AFS 476: AFS 475; permission of instructor
3 credits per course, S/U grading

AFS 487 Research in Africana Studies

Individual research projects in the Black Experience carried out under the direct supervision of a faculty member. May be repeated to a limit of 6 credits.

Prerequisite: Permission of instructor
0-6 credits

AFS 488 Internship

Participation in public and private agencies and organizations under the supervision of a faculty sponsor. Students are required to submit progress reports and a final written report on their experiences to the faculty sponsor. May be repeated up to a limit of 12 credits.

Prerequisites: African studies major or minor; 15 credits in AFS courses; permission of instructor and program director
0-6 credits, S/U grading

AIM

Advancement on Individual Merit

AIM 102 Expository Writing

The fundamentals of grammar through investigating methods of interpreting various forms of literature with emphasis on the process of writing and re-writing. Does not count toward graduation. A through C/satisfactory grading only. The Pass/No credit option may not be used. Open to EOP/AIM students only.

Prerequisite: Placement by writing placement examination
Corequisite: WRT 101 or ESL course
3 credits

AIM 104 Literary Analysis and Critical Reasoning

Introduction to literary analysis and critical reasoning through close examination of selected works. Open to EOP/AIM students only. A through C/satisfactory grading only. The Pass/No credit option may not be used.

Prerequisite: Placement by writing placement examination
3 credits, ABC/U grading

AMR

American Studies

AMR 101-F Local and Global: National Boundaries and World-Systems

Introduction to the contemporary capitalist world-system as a complex network of unequal power relationships and its inextricable role in our daily lives. Consideration of the ways the Americas have been incorporated into the world-system through colonialism and early capitalist ventures, with emphasis on the 20th century in terms of transnationalism, globalization, and the mobility of capital and labor, especially as this creates racial formations.

3 credits

AMR 102-G Making American Identities

A chronological representation of some of the ways that the peoples living in the current U.S. have identified themselves collectively as Americans and individually as belonging to distinct groups marked by racial, ethnic, gender, and class differences. Readings include texts of various kinds: historical, fictional, and theoretical. A computer (virtual) classroom is part of the coursework.

3 credits

AMR 301-K Ethnicity and Race in American History

Overview of the role and place of ethnicity and race in the history of North America through investigation of the ways that ethnic belonging and identity have evolved through the 19th and 20th centuries. Readings and discussion consider how ethnicity is forged through engagement with other “outside” as well as “inside” groups toward an understanding of how and why notions of “ethnicity” and “race” have changed over time. Groups that may be considered include African, Arab, Asian, German, Hispanic, Irish, Italian, Jewish, Native, and South Asian Americans.

Prerequisites: U3 or U4 standing; AMR 101 or 102
3 credits

AMR 390-G Humanities Topics in American Studies

Selected topics in American studies in the humanities. Topics may include philosophy and drama in the United States, North and South American films, literary trends in the Americas. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisite: To be announced with the topic
3 credits

AMR 392-F Social and Behavioral Sciences Topics in American Studies

Selected topics in American studies in the social and behavioral sciences. Topics may include political history of the United States and Latin America, North and South American economies. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisite: To be announced with the topic
3 credits

AMR 395-J Topics in American Studies

Selected topics in non-Western cultures, societies, traditions, literatures, etc. Topics may include contemporary Indian societies in Central and South America, sociology of Latin and South America. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisite: To be announced with the topic
3 credits

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AMR 397-K Topics in American Studies
Topics in U.S. literature, culture, history, etc., placed within a broad historical context, including social, political, economic, and cultural history and institutions. Topics may include, for instance, women and men in the contemporary United States and contemporary U.S. culture. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: To be announced with the topic
3 credits

AMR 401 Senior Seminar in American Studies
Students synthesize the theories, methods, and knowledge gained in previous coursework through in-depth study of a particular issue or question. Discussion is structured around topics that engage the central themes of the histories, cultures, and societies of the Americas from an interdisciplinary perspective.
Prerequisites: U4 standing; AMR major or minor
Advisory Prerequisite: AMR 301
3 credits

AMR 447 Directed Readings in American Studies
Independently supervised readings in selected topics in American Studies. May be repeated.
Prerequisites: Permission of instructor and department
1-6 credits

AMR 475, 476 Undergraduate Teaching Practica I, II
Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. In AMR 476, students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.
Prerequisites to AMR 475: Permission of instructor and department
Prerequisites to AMR 476: AMR 475, permission of instructor and department
3 credits per course, SU grading

AMR 487 Independent Research
Intensive readings and research on a special topic undertaken with close faculty supervision. May be repeated.
Prerequisites: Permission of instructor and department
0-6 credits

AMR 488 Internship
Intensive readings and research on a special topic undertaken with close faculty supervision. May be repeated.
Prerequisites: Permission of instructor and department
0-6 credits, SU grading

AMR 495 Senior Honors Project in American Studies
A one-semester project for seniors. Arranged in consultation with the department, the project involves writing a paper under the close supervision of an appropriate instructor, on a suitable topic. Students who are candidates for honors take this course.
Prerequisite: Permission of department
3 credits

AMS 101-C Applied Precalculus
Prerequisites: SAT math score of at least 500, or equivalent. This course satisfy the prerequisites for AMS 201 or AMS 210.
3 credits

AMS 102-C Elements of Statistics
The use and misuse of statistics in real-life situations; basic statistical measures of central tendency and of dispersion, frequency distributions, elements of probability, binomial and normal distributions, small and large sample hypothesis testing, confidence intervals, chi square test, and regression. May not be taken by students with credit for AMS 110, 310, 311, 312; ECO 320; POL 201; PSS 201; or SOC 202.
Prerequisite: Satisfaction of entry skill in mathematics placement examination
3 credits

AMS 110 Probability and Statistics in the Life Sciences
A survey of probability theory and statistical techniques with applications to biological and biomedical situations. Topics covered include Markov chain models; binomial, Poisson, normal, exponential, and chi square random variables; tests of hypotheses; confidence intervals; t tests; and analysis of variance, regression, and contingency tables. May not be taken for credit in addition to AMS 310.
Prerequisite: AMS 151 or MAT 125 or 131 or 141
3 credits

AMS 151-C Applied Calculus I
A review of functions and their applications; analytic methods of differentiation; interpretations and applications of differentiation; introduction to integration. Intended for CEAS majors. Not for credit in addition to MAT 125 or 126 or 131 or 141.
Prerequisite: B or higher in MAT 125, or level 5 on the mathematics placement examination, or B or higher in MAT 122 and coregistration in MAT 120
3 credits

AMS 161-C Applied Calculus II
Analytic and numerical methods of integration; interpretations and applications of integration; differential equations models and elementary solution techniques; phase planes; Taylor series and Fourier series. Intended for CEAS majors. Not for credit in addition to MAT 127 or 132 or 142.
Prerequisite: C or higher in AMS 151 or MAT 131 or 141, or level 7 on the mathematics placement examination
3 credits

AMS 201 Matrix Methods and Models
Basic properties of matrix algebra, matrix norms, eigenvalues, solving systems of equations; applications to economics, growth models, Markov chains, regression, linear programming. Computer software packages used. May not be taken by students with credit for MAT 203 or AMS 210.
Prerequisite: AMS 151 or MAT 122, 123, 125, 131 or 141
3 credits

AMS 210 Applied Linear Algebra
Prerequisite: AMS 151 or MAT 131 or 141 or corequisite MAT 126
3 credits

AMS 261 Applied Calculus III
Vector algebra and analytic geometry in two and three dimensions; multivariable differential calculus and tangent planes; multivariable integral calculus; optimization and Lagrange multipliers; vector calculus including Green’s and Stokes’s theorems. May not be taken for credit in addition to MAT 203 or 205.
Prerequisite: AMS 161 or MAT 127 or 132 or 142
4 credits

AMS 300 Writing in Applied Mathematics
See Requirements for the Major in Applied Mathematics and Statistics, Upper Division Writing Requirement.
Prerequisite: WRT 102; AMS major; U3 or U4 standing
1 credit, SU grading

AMS 301 Finite Mathematical Structures
An introduction to graph theory and combinatorial analysis. The emphasis is on solving applied problems rather than on theorems and proofs. Techniques used in problem solving include generating functions, recurrence relations, and network flows. This course develops the type of mathematical thinking that is fundamental to computer science and operations research.
Prerequisite: AMS 210 or MAT 211 or AMS 361 or MAT 303
3 credits

AMS 303 Graph Theory
Paths and circuits, trees and tree-based algorithms, graph coloring, digraphs, network flows, matching theory, matroids, and games with graphs.
Prerequisite: AMS 301
3 credits

AMS 310 Survey of Probability and Statistics
A survey of data analysis, probability theory, and statistics. Stem and leaf displays, box plots, schematic plots, fitting straight line relationships, discrete and continuous probability distributions, conditional distributions, binomial distribution, normal and t distributions, confidence intervals, and significance tests. May not be taken for credit in addition to ECO 320.
Prerequisite: AMS 201 or 210 or MAT 211
3 credits

AMS 311 Probability Theory
Probability spaces, random variables, moment generating functions, algebra of expectations, conditional and marginal distributions, multivariate distributions, order statistics, law of large numbers.
Corequisite: MAT 203 or 205 or AMS 261
3 credits

AMS 312 Mathematical Statistics
Estimation, confidence intervals, Neyman Pearson lemma, likelihood ratio test, hypothesis testing, chi square test, regression, analysis of variance, nonparametric methods.
Prerequisite: AMS 311
3 credits

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