History of Sexuality since the 18th Century
Fall, Spring. 3(3-0) Interdepartmental with History. Administered by Department of History. R: Not open to freshmen.
Changing gender roles, sex in the Victorian era, prostitution, pornography, birth control, emergence of homo- and heterosexuality, sex under fascism, the sexual revolution, contemporary conflicts.

Women and Criminal Justice
Spring of even years. 3(3-0) Interdepartmental with Criminal Justice. Administered by School of Criminal Justice. RB: (CJ 220 or WS 201) R: Open only to juniors or seniors.
Theories on women’s victimization and criminality. Women’s experiences as victims, offenders, and criminal justice employees. Laws and their effects on the rights of women in the criminal justice system.

Women and Work: Issues and Policy Analysis
Spring. 3(3-0) Interdepartmental with Environmental Economics and Policy; Economics. Administered by Department of Agricultural Economics. RB: (EC 201 or EC 202 or EEP 201 or concurrently) R: Not open to freshmen or sophomores.

Women's Experience as Victims, Offenders, and Criminal Justice Employees
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P: (WS 201 or WS 202 or WS 203) R: Not open to freshmen or sophomores.
Integration of feminist knowledge through work experience related to women’s concerns. Experience in legislative, community, or educational settings.

Individual Reading
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of program. Faculty supervised graduate level reading in special topics.

WRITING, RHETORIC AND AMERICAN CULTURES WRA

Department of Writing, Rhetoric, and American Cultures
College of Arts and Letters

Preparation for College Writing
Fall, Spring. 3(3-0) P: Designated score on English placement test. C: ATL 1012 concurrently.
Composing, revising, and editing. Active reading and pre-writing strategies. Style, mechanics, and usage. Organization and proofreading.

Writing: Science and Technology (I)
Fall, Spring. 4(4-0) P: (ATL 1004) Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on American science and technology to develop skills in narration, persuasion, analysis, and documentation.

Writing: Law and Justice in the United States
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on American law and justice to develop skills in narration, persuasion, analysis and documentation.

Writing: American Philosophy, Literature, and the Arts
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on American philosophy, literature, and the arts to develop skills in narration, persuasion, analysis, and documentation.

Writing: The American Ethnic and Racial Experience
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on the experience of American ethnic and racial groups to develop skills in narration, persuasion, analysis, and documentation.

Writing: American Radial Thought
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on American radical thought to develop skills in narration, persuasion, analysis, and documentation.

Writing: Public Life in America
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on American civic tradition and community service-learning experiences to develop skills in narration, persuasion, analysis, and documentation.

Writing: Men in America
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on America to develop skills in narration, persuasion, analysis, and documentation.

Writing: The American Ethnic and Racial Experience
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on the experience of American ethnic and racial groups to develop skills in narration, persuasion, analysis, and documentation.

Writing: Public Life in America
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on American civic tradition and community service-learning experiences to develop skills in narration, persuasion, analysis, and documentation.

Writing: Men in America
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on America to develop skills in narration, persuasion, analysis, and documentation.

Writing: The American Ethnic and Racial Experience
Fall, Spring. 4(4-0) P: (ATL 1004) or designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150 or ATL 195H.
Drafting, revising, and editing compositions derived from readings on the experience of American ethnic and racial groups to develop skills in narration, persuasion, analysis, and documentation.
Writing, Rhetoric and American Cultures—WRA

195H Writing: Major Topics in American Thought
Fall, Spring. 4(4-0) RB: Designated score on English placement test. Not open to students with credit in MC 111 or MC 112 or LBS 133 or AL 192 or AL 192H or ATL 110 or ATL 115 or ATL 120 or ATL 125 or ATL 130 or ATL 135 or ATL 140 or ATL 145 or ATL 150.

202 Introduction to Professional Writing
Fall. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 202
Basic principles of rhetoric and composition applied to professional writing. Page design, field definition, research tools and practices, genres and conventions, and professional style.

210 Introduction to Web Authoring
Fall, Spring. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 210

260 Rhetorical Analysis of American Cultures for Professional Writing
Fall, Spring. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 260
Rhetorical analysis of consumer, corporate, organizational, and popular cultures appropriate to professional settings.

290 Independent Study
Fall, Spring. 1 to 4 credits. R: Open only to freshmen or sophomores. Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

308 Invention in Writing
Spring. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 308
Theory and practice of invention in writing. Strategies and theories of generating and exploring thought in civic and professional writing contexts.

320 Technical Writing
Fall, Spring. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 320
Principles and practices of effective writing in the workplace. Technical, scientific, and electronic-mediated writing. Includes audience and organizational needs, visual rhetoric, information design, electronic publication, ethics, technical style, usability testing, and team writing.

331 Writing in the Public Interest
Spring of odd years. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 331
Various forms of public writing and rhetoric and their roles in democracy and public culture. Practice in modes of public and civic discourse, including deliberative strategies and a range of public literacies.

341 Writing Nature and the Nature of Writing
Fall. 3(3-0) Interdepartmental with Fisheries and Wildlife. P: Completion of Tier I writing requirement. SA: AL 341
Writing- and reading-intensive course focusing on the language of scientists, poets, essayists, naturalists, environmentalists, and biologists, and on their various responses to and representations of the natural environment.

355 Writing for Publication Workshop
Fall. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 355
Workshop for students developing writing for a variety of print and online publications.

360 Visual Rhetoric
Spring. 4(4-0) P: Completion of Tier I writing requirement. SA: AL 360
Visual literacy, design, and rhetoric. Effects of visual elements in print and online documents. Intensive writing and design.

361 Rhetoric, Persuasion, and Argument
Fall of odd years. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 361
Traditional and contemporary approaches to rhetoric, persuasion, and argument both in written and visual texts. Includes feminist, digital, political, and postmodern approaches.

370 Editing and Style in Professional Writing
Spring. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 370
Theories, practice, and processes of editing in professional writing contexts. Rhetoric and style.

410 Advanced Web Authoring
Spring. 3(3-0) P: WRA 210) and completion of Tier I writing requirement. SA: AL 410
Developing and maintaining large-scale, interactive Web sites. Visual design, usability, audio and video integration, ongoing site management, and web accessibility.

415 Digital Rhetoric
Fall. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 415
Rhetorical, social, political, economic, and ethical dimensions of electronic writing and publishing. Rhetorical dynamics of computer-mediated writing spaces such as the Internet, World Wide Web, e-mail, and synchronous chat.

417 Multimedia Writing
Fall. 4(4-0) P: WRA 210 and completion of Tier I writing requirement. RB: Prior experience with graphical computer applications. SA: AL 417
Visual rhetoric and design theories applied to digital short subjects. Write, direct, critique, and produce motion-based digital compositions that include multiple media.

420 Advanced Technical Writing
Spring. 3(3-0) P: WRA 320) and completion of Tier I writing requirement. SA: AL 420
Applied theory and specialized practices. User-centered design, project and document management, information and interface design. Issues in digital writing, technical editing, and writing for scientific and technical journals.

444 Writing in American Cultures
Fall, Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: WRA 260 and completion of Tier I writing requirement. SA: AL 444
Analysis of rhetorical practices in selected academic and professional disciplines, communities, and public cultures.

445 Writing in American Cultures: Rhetoric and Music
Spring of even years. 3(3-0) P: IAH 201 or IAH 202 or IAH 203 or IAH 204 or IAH 206 or IAH 207 or IAH 208) and completion of Tier I writing requirement. RB: (AL 260) R: Open only to juniors and seniors. SA: AL 445
Exploration of forms of writing about music. Links between music and oral cultures. Practice in modes of writing about and evaluating critiques of music.

451 Managing Large-Scale Publication Projects
Spring of even years. 3(3-0) P: WRA 202 or WRA 320) and completion of Tier I writing requirement. SA: AL 451
Design theory, task management research, collaborative problem-solving approaches, and team processes involved in designing and creating large-scale publications.

453 Grant and Proposal Writing
Fall. 3(3-0) P: WRA 202) and completion of Tier I writing requirement. SA: AL 453
Researching and writing grants and proposals for corporations, nonprofit organizations, businesses, and government agencies.

455 Portfolio Seminar
Fall, Spring. 3(3-0) P: Completion of Tier I writing requirement. SA: AL 455
Workshop for students preparing professional document portfolios in print and digital formats, including application materials for career, graduate study, and professional positions.

493D Internship in Professional Editing and Publishing
Spring of odd years. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: Completion of Tier I writing requirement. RB: WRA 370) and WRA 355) R: Approval of college. SA: AL 493D
Supervised work in editing and publishing.

493E Internship in Professional Writing
Spring. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: WRA 202) and completion of Tier I writing requirement. RB: Web-authoring course or experience. R: Approval of college. SA: AL 493E
Supervised work as writers and editors in a corporate or organizational setting. Required workshop component.
316L General Parasitology Laboratory
Spring. 1(0-2) P: (ZOL 316 or concurrently) R: Not Open to freshman
Laboratory diagnosis of protozoans, helminths, acanthocephalans, copepods, and arthropods that infect humans and animals. Animal necropsy.

319 Introduction to Earth System Science
Fall. 3(3-0) Interdepartmental with Entomology, Plant Biology, Geological Sciences, and Sociology. Administered by Department of Entomology. RB: Completion of one course in biological or physical science.
Systems approach to Earth as an integration of geochemical, geophysical, biological and social components. Global dynamics at a variety of spatio-temporal scales. Sustainability of the Earth system.

320 Developmental Biology
Fall. 4(3-3) P: (BS 110 or LBS 144 or LBS 148H) and (BS 111 or LBS 145 or LBS 149H) SA: ZOL 220
Principles of development, emphasizing vertebrates. Illustrations from morphological and experimental investigations.

328 Comparative Anatomy and Biology of Vertebrates
Spring. 4(3-3) P: (BS 110 or LBS 144 or LBS 148H) and completion of Tier I writing requirement. SA: ZOL 228
Comparative morphology and natural history of vertebrates. Dissection of representatives of most vertebrate classes.

341 Fundamental Genetics
Fall, Spring. 4(3-0) R: Not Open to freshmen

353 Marine Biology
Fall. 4(4-0) P: (BS 110 or LBS 144 or LBS 148H) and completion of Tier I writing requirement. SA: ZOL 250
Plant and animal ecology. Interrelationships of plants and animals with the environment. Principles of population, community, and ecosystem ecology. Application of ecological principles to global sustainability.

355L Ecology Laboratory
Fall, Spring. 1(0-3) Interdepartmental with Plant Biology. P: (BS 110 or LBS 144 or LBS 148H) SA: ZOL 344
Identification, life history, host-parasite relationships, and epidemiology of protozoan, helminth, acanthocephalan, copepod, and arthropod parasites of animals and humans.