HNRS Courses

HNRS 100. Introduction to the Honors Community. 2 units
CR/NC
Topics on sustainability, diversity, ethics, and transition to life at Cal Poly. Introduction to Honors Program opportunities. Mentoring and building community. Collaboration with local service organizations. For University Honors Program students only. Credit/No Credit grading only. 1 lecture, 1 activity.

HNRS 101. Public Speaking. 4 units
2020-21 or later catalog: GE Area A1
2019-20 or earlier catalog: GE Area A2
Introduction to the principles of public speaking. Practical experience in the development, presentation, and critical analysis of speeches to inform, to persuade, and to actuate. Not open to students with credit in COMS 102. 4 lectures. Crosslisted as COMS/HNRS 101. Fulfills GE Area A1 with a grade of C- or better (GE Area A2 for students on the 2019-20 or earlier catalogs).

HNRS 102. Principles of Oral Communication. 4 units
2020-21 or later catalog: GE Area A1
2019-20 or earlier catalog: GE Area A2
Introduction to the fundamentals and principles which underlie effective oral communication. Practical experience in various types of speaking situations: informative speaking, persuasive speaking, and panel discussion. Not open to students with credit in COMS 102. 4 lectures. Crosslisted as COMS/HNRS 102. Fulfills GE Area A1 with a grade of C- or better (GE Area A2 for students on the 2019-20 or earlier catalogs).

HNRS 103. Race, Culture and Politics in the United States. 4 units
2020-21 or later catalog: GE Area D1
2019-20 or earlier catalog: GE Area D1
USCP
Introductory and interdisciplinary study of the ways that race and ethnicity are created by both historical processes and American institutional formation - specifically social, political, economic, legal and cultural institutions. Special attention paid to the interlocking systems of race, class, gender and sexuality. 4 lectures. Crosslisted as ES/HNRS 112. Fulfills GE Area D1 and USCP.

HNRS 104. General Physics I. 4 units
2020-21 or later catalog: GE Area B1
2019-20 or earlier catalog: GE Area B3
2019-20 or earlier catalog: GE Area B4
Prerequisite: PHYS 131 or HNRS 131 or PHYS 141.
Oscillations, waves in elastic media, sound waves. Temperature, heat and the first law of thermodynamics. Kinetic theory of matter, second law of thermodynamics. Geometrical and physical optics. 3 lectures, 1 laboratory. Crosslisted as HNRS/PHYS 132. Fulfills GE Areas B1 and B3 (GE Areas B3 and B4 for students on the 2019-20 or earlier catalogs).

HNRS 105. General Physics IA. 4 units
2020-21 or later catalog: GE Area B1
2019-20 or earlier catalog: GE Area B3
Prerequisite: MATH 141 with grade C- or better and MATH 142 or MATH 182 (or concurrent enrollment). Recommended: High School Physics.

HNRS 106. Calculus I. 4 units
2020-21 or later catalog: GE Area B4
2019-20 or earlier catalog: GE Area B1
Prerequisite: Appropriate Math Placement Level; or MATH 117 and high school trigonometry; or MATH 118 and high school trigonometry; or MATH 119.
Limits, continuity, differentiation. Introduction to integration. 4 lectures. Crosslisted as HNRS/MATH 141. Fulfills GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs); a grade of C- or better is required in one course in this GE area.

HNRS 107. Calculus II. 4 units
2020-21 or later catalog: GE Area B4
2019-20 or earlier catalog: GE Area B1
Prerequisite: MATH 141 with a grade of C- or better or consent of instructor.
Techniques of integration, applications to physics, transcendental functions. 4 lectures. Crosslisted as HNRS/MATH 142. Fulfills GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs); a grade of C- or better is required in one course in this GE area.

HNRS 108. Calculus III. 4 units
2020-21 or later catalog: GE Area B4
2019-20 or earlier catalog: GE Area B1
Prerequisite: MATH 141 with grade C- or better or consent of instructor.
Infinite sequences and series, vector algebra, curves. 4 lectures. Crosslisted as HNRS/MATH 143. Fulfills GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs); a grade of C- or better is required in one course in this GE area.

HNRS 109. Reasoning, Argumentation, and Writing. 4 units
2020-21 or later catalog: GE Area A3
2019-20 or earlier catalog: GE Area A3
Prerequisite: Completion of GE Area A2 with a grade of C- or better (GE Area A1 for students on the 2019-20 or earlier catalogs).
The principles of reasoning in argumentation. Examination of rhetorical principles and responsible rhetorical behavior. Application of these principles to written and oral communications. Effective use of research methods and sources. 4 lectures. Crosslisted as COMS/ENGL/HNRS 145. Fulfills GE Area A3 with a grade of C- or better.
HNRS 148. Reasoning, Argumentation and Professional Writing. 4 units
2020-21 or later catalog: GE Area A3
2019-20 or earlier catalog: GE Area A3
Prerequisite: Completion of GE Area A2 with a grade of C- or better (GE Area A1 for students on the 2019-20 or earlier catalogs).

The principles of reasoning in professional writing. Discussion and application of rhetorical principles, both oral and written, in professional environments. Study of methods, resources and common formats used in corporate or research writing. 4 lectures. Crosslisted as ENGL/HNRS 148. Fulfills GE Area A3 with a grade of C- or better.

HNRS 149. Technical Writing for Engineers. 4 units
2020-21 or later catalog: GE Area A3
2019-20 or earlier catalog: GE Area A3
Prerequisite: Completion of GE Area A2 with a grade of C- or better (GE Area A1 for students on the 2019-20 or earlier catalogs). For Engineering students only.

The principles of technical writing. Discussion and application of rhetorical principles in technical environments. Study of methods, resources and common formats used in corporate or research writing. 4 lectures. Crosslisted as ENGL/HNRS 149. Fulfills GE Area A3 with a grade of C- or better.

HNRS 161. Creating Sustainable Communities I. 2 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D3
Environmental, historical, and social dimensions of sustainability. Elements of sustainable communities in a local and global context. Resilience and systems thinking. Introduction to research skills. Developing community within the Honors Program. Includes a service learning component. For University Honors Program students only. Upon completion of HNRS 161 and HNRS 162, a student will receive 4 units of GE credit for Area D2 (GE Area D3 for students on the 2019-20 or earlier catalogs). 1 lecture, 1 activity.

HNRS 162. Creating Sustainable Communities II. 2 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D3
Prerequisite: HNRS 161.

Continuation of HNRS 161. Environmental, historical, and social dimensions of sustainability. Institutional views of sustainability. Environmental justice. Appropriate technology. Developing community within the Honors Program. Includes a service learning component. For University Honors Program students only. Upon completion of HNRS 161 and HNRS 162, a student will receive 4 units of GE credit for Area D2 (GE Area D3 for students on the 2019-20 or earlier catalogs). 1 lecture, 1 activity.

HNRS 163. Creating Sustainable Communities III. 2 units
Prerequisite: HNRS 162.

Continuation of HNRS 161 and 162. Implementation and assessment of a year-long community service project, initiative, or campaign. Project management and interpersonal communication. Developing community within the Honors Program. For University Honors Program students only. 1 lecture, 1 activity.

HNRS 200. Special Problems for Undergraduates. 1-2 units
CR/NC
Prerequisite: Consent of instructor and Honors Program.
Individual investigation, research, projects, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. Credit/No Credit grading only.

HNRS 201. Survey of Economics. 4 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D2
Basic principles of microeconomics and macroeconomics. Emphasis on applications to current national and global economic issues. For majors requiring one quarter of economics. Not open to students having previous credit in ECON 222 or equivalent. 4 lectures. Crosslisted as ECON/HNRS 201. Fulfills GE Area D2.

HNRS 202. United States History Since 1865. 4 units
2020-21 or later catalog: GE Area D1
2019-20 or earlier catalog: GE Area D1
USCP
Survey of the second half of U.S. history, including Reconstruction, industrialization, the regulatory state, foreign affairs, and the remaking of citizenship rights and society. Particular attention to how race, class, and gender shaped changing definitions of freedom and equality. Not open to students with credit in HIST 206 or HIST 207. 4 lectures. Crosslisted as HIST/HNRS 202. Fulfills GE Area D1 and USCP.

HNRS 203. United States History to 1865. 4 units
2020-21 or later catalog: GE Area D1
2019-20 or earlier catalog: GE Area D1
USCP
Survey of the first half of U.S. history, including contact and settlement, American Revolution, slavery, westward expansion, early California, Civil War, and California and U.S. Constitutions. Particular attention to how race, class, and gender shaped changing definitions of freedom and equality. Not open to students with credit in HIST 206 or HIST 207. 4 lectures. Crosslisted as HIST/HNRS 203. Fulfills GE Area D1 and USCP.

HNRS 204. Introduction to Women's and Gender Studies in the United States. 4 units
2020-21 or later catalog: GE Area D1
2019-20 or earlier catalog: GE Area D1
USCP
Introduction to theories and research on how genders and sexualities in the US shape and are shaped by historical processes and US institutional formation - specifically social, political, economic, legal, cultural institutions. Emphasis on interlocking systems of gender, sexuality, race and class. Course may be offered in classroom-based or online format. 4 lectures. Crosslisted as HNRS 204/WGS 201. Fulfills GE Area D1 and USCP.

HNRS 207. Freedom and Equality in American History. 4 units
2020-21 or later catalog: GE Area D1
2019-20 or earlier catalog: GE Area D1
USCP
The multiple and conflicting ways in which various Americans (defined in terms of race, class and gender) have struggled to formulate and promote their own understandings of freedom and equality, from the pre-conquest era to the present. 4 lectures. Not open to students with credit in HIST 201 or HIST 202. Crosslisted as HIST/HNRS 207. Fulfills GE Area D1 and USCP.
HNRS 211. Engineering Statics. 3 units
Prerequisite: MATH 241 (or concurrently), PHYS 131 or PHYS 141.
Analysis of forces on engineering structures in equilibrium. Properties of forces, moments, couples, and resultants. Equilibrium conditions, friction, centroids, area moments of inertia. Introduction to mathematical modeling and problem solving. Vector mathematics where appropriate. 3 lectures. Crosslisted as HNRS/ME 211.

HNRS 212. Global Origins of United States Cultures. 4 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D3
USCP
How the global dispersal of Europeans, Asians, and Africans, the hemispheric dispersal of Latin Americans, and the forced internal migration of Native Americans have contributed to American cultural heritage and the struggles for ethnicity, class and gender equality, and justice. 4 lectures. Crosslisted as ES/HNRS 212. Fulfills GE Area D2 (GE Area D3 for students on the 2019-20 or earlier catalogs); and USCP.

HNRS 213. Modern Political Economy. 4 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D3
The relationship between states and economies in the modern period. Themes of modernization, industrialization, and colonial expansion. The major theories of political economy, especially liberalism and socialism. 4 lectures. Crosslisted as HNRS/ME 211.

HNRS 214. Engineering Dynamics. 3 units
Prerequisite: MATH 241; ME 211 or ARCE 211.
Analysis of motions of particles and rigid bodies encountered in engineering. Velocity, acceleration, relative motion, work, energy, impulse, and momentum. Further development of mathematical modeling and problem solving. Vector mathematics where appropriate. 3 lectures. Crosslisted as HNRS/ME 212.

HNRS 216. Comparative Social Movements. 4 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D3
History of global social movements from the late nineteenth century to the present. May include, but not limited to: socialism, nationalism, feminism, fascism and communism, pacifism, life reform, gay liberation, indigenous peoples’ movements, and environmentalism. Includes a service learning component. 4 lectures. Crosslisted as HIST/HNRS 216. Fulfills GE Area D2 (GE Area D3 for students on the 2019-20 or earlier catalogs).

HNRS 223. World History, 1800 - Present. 4 units
2020-21 or later catalog: GE Area D2
2019-20 or earlier catalog: GE Area D3
Comparative history of Western and non-Western societies in global perspective. Cross-cultural exchange, interaction, and conflict in the making of the modern world, with focus on the economic, political, and cultural transformations that facilitated and emerged from imperialism. 4 lectures. Crosslisted as HIST/HNRS 223. Fulfills GE Area D2 (GE Area D3 for students on the 2019-20 or earlier catalogs).

HNRS 230. Philosophical Classics: Knowledge and Reality. 4 units
Prerequisite: Completion of GE Area A with grades of C- or better; or for PHIL majors GE Area A3 with a grade of C- or better. Recommended: PHIL 126.
Critical examination of primary philosophical texts, from the ancient and modern periods, with focus on the nature of reality and the sources and limits of human knowledge. Course may be offered in classroom-based or online format. 4 lectures. Crosslisted as HNRS/PHIL 230. Fulfills GE Area C2.

HNRS 231. Philosophical Classics: Ethics and Political Philosophy. 4 units
Prerequisite: Completion of GE Area A with grades of C- or better; or for PHIL majors GE Area A3 with a grade of C- or better. Recommended: PHIL 126.
Readings from primary philosophical texts, from the ancient and modern periods, with focus on the identification, evaluation and contemporary relevance of the central ethical and political themes and arguments presented in them. Course may be offered in classroom-based or online format. 4 lectures. Crosslisted as HNRS/PHIL 231. Fulfills GE Area C2.

HNRS 232. British Literature: 1789 to the Present. 4 units
2020-21 or later catalog: GE Area C2
2019-20 or earlier catalog: GE Area C1
Prerequisite: Completion of GE Area A with grades of C- or better.
Broadly surveys Romantic, Victorian, Modern, and Contemporary British literature in an historical-cultural context. Investigates works from several genres and a variety of national and cultural voices. May include such writers as Wordsworth, Wollstonecraft, Dickens, G. Eliot, Wilde, Woolf, Yeats, and Gordimer. 4 lectures. Crosslisted as ENGL 231/HNRS 232. Fulfills GE Area C2 (GE Area C1 for students on the 2019-20 or earlier catalogs).

HNRS 241. Calculus IV. 4 units
Prerequisite: MATH 143.
Partial derivatives, multiple integrals, introduction to vector analysis. 4 lectures. Crosslisted as HNRS/MATH 241.

HNRS 242. American Literature: 1830 to the Present. 4 units
Prerequisite: Completion of GE Area A with grades of C- or better.
A broad survey of later American literature from the rise of literary nationalism to the present. A wide range of writers and genres, including novels, short stories, poems, plays, essays, and autobiographies. Not open to students with credit in ENGL 240. 4 lectures. Crosslisted as ENGL/HNRS 242. Fulfills GE Area C2 (GE Area C1 for students on the 2019-20 or earlier catalogs).
HNRS 244. Linear Analysis I. 4 units
Prerequisite: MATH 143.

Separable and linear ordinary differential equations with selected applications; numerical and analytical solutions. Linear algebra: vectors in n-space, matrices, linear transformations, eigenvalues, eigenvectors, diagonalization; applications to the study of systems of linear differential equations. 4 lectures. Crosslisted as HNRS/MATH 244.

HNRS 251. Introduction to Classical Literature. 4 units
2020-21 or later catalog: GE Area C2
2019-20 or earlier catalog: GE Area C1
Prerequisite: Completion of GE Area A with grades of C- or better.

Examination of the ancient epics and classical literature of Mesopotamia, Greece, and Rome. May include such readings as The Epic of Gilgamesh, the Iliad, the Odyssey, Genesis, Exodus, Antigone, the Symposium, the Aeneid, and Marcus Aurelius’s Meditations. 4 lectures. Crosslisted as ENGL/HNRS 251. Fulfills GE Area C2 (GE Area C1 for students on the 2019-20 or earlier catalogs).

HNRS 261. Leadership: Self Evaluation. 1 unit
Recommended: Sophomore standing.

Interpersonal leadership and communication skills with a focus on self evaluation. Personality assessment, preparation of a personal leadership development plan, and goal setting. Values and moral development. For University Honors Program students only. 1 activity.

HNRS 262. Leadership: Group Dynamics. 1 unit
Prerequisite: HNRS 261.

Teamwork and team building skills with a focus on group dynamics. Understanding the effects of diversity on team dynamics and performance. Cross-cultural communication and leadership. Development of trust, feedback, and conflict resolution. For University Honors Program students only. 1 lecture.

HNRS 263. Leadership: Coaching and Mentoring. 1 unit
Prerequisite: HNRS 262.

Strategies for effective coaching and mentoring. Servant leadership, recognition of motivational sources in others, and positive psychology in leadership. Development of a leadership philosophy. For University Honors Program students only. 1 lecture.

HNRS 265. Research and Information Skills for Honors Students. 2 units
Prerequisite: HNRS 162.

Identifying information resources and research support services available through Kennedy Library. Methods, best-practices, and ethical standards related to planning, carrying out, summarizing, and publishing scholarly research. Written, oral, and visual presentation of research findings. For University Honors Program students only. 1 lecture, 1 activity.

HNRS 270. Selected Topics. 1-4 units
Prerequisite: Open to undergraduate students and consent of instructor.

Directed group study of selected topics. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 lectures.

HNRS 299. Honors Group Seminar. 1 unit
CR/NC

Students in the Honors Program are required to take at least eight courses for honors credit before graduation. Taking an Honors course may not be possible due to scheduling conflicts or unavailability of courses. This course allows students to engage in honors-level work in a standard, non-honors course on a group basis. Credit/No Credit grading only. Total credit limited to 4 units; repeatable in same term. Must achieve a B or better in the related standard course. 1 seminar.

HNRS 302. The Learn By Doing Lab Teaching Practicum. 2 units
CR/NC

Prerequisite: Completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Early teaching experience in an informal science, technology, engineering, and mathematics (STEM) teaching and learning environment. Principles of inquiry-driven STEM education, lesson design, implementation and assessment. Intended for undergraduates exploring STEM teaching as a career. Total credit limited to 4 units. Credit/No Credit grading only. 1 seminar, 1 laboratory. Crosslisted as ENGR 322/SCM 302/HNRS 302.

HNRS 303. Economics of Poverty, Discrimination and Immigration. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
USCP

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and ECON 201 or ECON 222.

Economic analysis of the cause, extent and impact of poverty, discrimination and immigration and of the policies designed to address these socioeconomic issues. Emphasis on the experience of African-Americans, Latinos, and women in the United States. 4 lectures. Crosslisted as ECON/HNRS 303. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs); and USCP.

HNRS 304. Values and Technology. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one course in GE Area C.

Humanistic investigation into the theoretical and practical applications of technology with specific reference to the social effects of technological change. For all majors. Non-technical. 4 lectures. Crosslisted as HNRS 304/ISLA 303. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs).
HNRS 310. Air and Space. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Technological innovations that have led to modern aircraft and spacecraft as viewed from an historical perspective. Development of aerodynamics, propulsion systems, light-weight structures, and control systems. How aviation has affected, and been affected by, history. Impact of aviation on society, including civil and military aircraft/spacecraft. Federal regulation of aviation, including air traffic control and airlines. Future developments in air and space technology. 4 lectures. Crosslisted as AERO/HNRS 310. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

HNRS 311. Computers for Poets. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

How computers and computer devices work. Introduction to software systems and applications. How computers connect with various media including images, speech and data. How information is encoded and transmitted across networks. Relationship between the computer and human information processing. 4 lectures. Crosslisted as CSC 310/HNRS 311. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

HNRS 312. East Asian Culture and Civilization. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing or History major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one course in GE Area D2 (or in GE Area D3 for students on the 2019-20 or earlier catalogs).

The pre-modern and modern histories of China and Japan. Focus on the traditional era, the transition to modernity, cultural uniqueness within East Asian civilization, and western images of Asia. 4 lectures. Crosslisted as HIST 310/HNRS 312. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

HNRS 317. The Lure of the Sea. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing or History major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area D.

The history of the sea, people who travel across it, live alongside or in the midst of it, or simply seek it out. Topics include imperialism, maritime commerce, port cities, littoral societies, piracy, tourism, popular culture. 4 lectures. Crosslisted as HIST/HNRS 317. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

HNRS 320. Topics and Issues in Values, Media and Culture. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

The interplay of values, media, and culture from an interdisciplinary perspective. Descriptive subtitles assigned to each course. The Class Schedule will list topic selected. 4 lectures. Total credit limited to 8 units with different subtopic; repeatable in same term. Crosslisted as HNRS/ISLA 320. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs).

HNRS 321. Undergraduate Research Methods and Practice. 4 units
Prerequisite: Completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and consent of instructor.

Research methods and tools for sciences and humanities, including formulating a research question, designing a study, using the scientific method to conduct and analyze surveys, and analyzing data. Emphasis on working in interdisciplinary research teams. Total credit limited to 8 units. 2 lectures, 2 activities. Crosslisted as HNRS/UNIV 321.

HNRS 322. Leadership and Project Management. 2 units
Prerequisite: Junior standing in an engineering program.

Theory and practice in leadership and project management skills for engineering design teams. Basic issues related to, and tools used for, managing projects and concepts comprising project management. Emphasis on situations requiring resolutions and management decisions by groups representing various elements of an enterprise. 2 lectures. Crosslisted as HNRS/IME 322.

HNRS 323. Modern America. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing or History major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and completion of GE Area D1.

American history since 1900. Focus on domestic and foreign policy interactions, struggle of disenfranchised groups for social and political equality, and changes in culture and identity. 4 lectures. Crosslisted as HIST 322/HNRS 323. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).
HNRS 332. British Literature: 1660-1798. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

In-depth exploration of the literature of the British Romantic period. Cultural, historical, and philosophic contexts will also be examined in both canonical and non-canonical works. May include such writers as Blake, Wordsworth, Keats, and Wollstonecraft. 4 lectures. Crosslisted as ENGL/HNRS 332. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 333. British Literature: 1798-1832. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

In-depth exploration of the literature of the British Romantic period. Cultural, historical, and philosophic contexts will also be examined in both canonical and non-canonical works. May include such writers as Blake, Wordsworth, Keats, and Wollstonecraft. 4 lectures. Crosslisted as ENGL/HNRS 333. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 334. Modern Europe, 1789-1914. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing or History major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and two lower-division courses in GE Area D. Recommended: HIST 111.

Europe's 'long nineteenth century' reveals continuity and dramatic changes in politics, social structures and identities, forms of cultural expression, and scientific and technological knowledge. Topics include the French and Industrial revolutions; liberalism; nationalism; socialism; modernism; imperialism; and World War I. 4 lectures. Crosslisted as HIST/HNRS 334. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

HNRS 335. Modern Europe, 1914-Present. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing or History major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and two lower-division courses in GE Area D. Recommended: HIST 111.

Examination of twentieth-century European history. Topics include: First World War; World Economic Crisis, communism, fascism, mass culture, shifting gender roles, Second World War, Cold War, Velvet Revolution, and the European Union. 4 lectures. Crosslisted as HIST/HNRS 335. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

HNRS 336. Social Ethics. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
USCP
Prerequisite: Junior standing or Philosophy major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and completion of GE Area C2.

Examination of contemporary moral problems, solutions to these problems, and the arguments for these solutions, with emphasis on two or more of the following sample problem areas: abortion, suicide and euthanasia, capital punishment, family ethics, race relations, social justice, war, women's issues. 4 lectures. Crosslisted as PHIL 335/HNRS 336. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and USCP.

HNRS 338. Critical Issues in American Politics. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and completion of GE Area D1. Recommended: POLS 112 (GE Area D1).

Examination of significant social, legal, economic and political issues that face the country and how the basic institutions of government-national, state, local-are responding to them; assessment of policies to correct these problems. 4 lectures. Crosslisted as HNRS/POLS 338. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

HNRS 340. Sexuality Studies. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area D.

Sexuality in a cultural and historical context. Changing definitions of human subjectivity. The cultural and social regimes that control and create sexuality (including the 'invention' of homo/heterosexuality and the social, legal and political systems that define sexual ab/normality). Contemporary issues of sexual orientation and topics of sexuality in relation to gender and race. 4 seminars. Crosslisted as WGS/HNRS 340. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).
HNRS 341. American Literature: 1865-1914. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

Analysis of literary Realism and Naturalism in their cultural and historical contexts. May include such writers as Whitman, Dickinson, Twain, Chopin, James, Wharton, Dreiser, Norris, and Crane who are seen to accommodate the sense of danger, doubt, and disorder of the time. 4 lectures. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 342. American Literature: 1914-1956. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

The writers of the modern period and those of the early post-modern age, including writers marked by stylistic innovation and a willingness to challenge traditionally accepted standards. May include such writers as Hemingway, Fitzgerald, Stein, Hughes. 4 lectures. Crosslisted as ENGL/HNRS 342. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 343. American Literature: 1956-Present. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

In-depth study of American fiction, poetry, and drama written since 1956. How contemporary literature examines enduring American themes and breaks new ground with the inclusion of diverse voices. 4 lectures. Crosslisted as ENGL/HNRS 343. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 345. Women Writers of the Twentieth and Twenty-First Centuries. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
USCP
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

In-depth exploration of works of 20th and 21st century women authors within their historical and cultural contexts. Analysis of canonical and non-canonical writing by women of differing classes, races, ethnicities, and sexual preferences. Literary techniques through which texts reflect or challenge such cultural constructs as gender, identity, sexuality, motherhood, etc. The emergence of a female literary tradition. May include such writers as Adichie, Aoki, Lorde, Mukherkee, Olds, Rich. 4 lectures. Crosslisted as ENGL/HNRS 345. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); USCP; and GWR.

HNRS 347. African American Literature. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
USCP
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

The writings of African Americans from the end of the eighteenth century to the present. Individual works and literary trends among African Americans of various periods and contexts: intellectual, political, and cultural. Course may be offered in classroom-based or online format. 4 lectures. Crosslisted as ENGL/HNRS 347. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); USCP; and GWR.

HNRS 350. The Scientific Revolution, c. 1500-1800. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
GWR
USCP
Prerequisite: Junior standing or History major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area D. Recommended: One or more courses in GE Area B.

History of the intellectual, social, and cultural changes in the early modern period known as the ‘Scientific Revolution.’ Main topics include the Copernican Revolution, mechanical philosophy, natural history, and the social and material practices of early modern science. 4 lectures. Crosslisted as HIST/HNRS 350. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).
HNRS 352. Modern Drama. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

Reading and analysis of world drama of the last 150 years, thereby enhancing student awareness of modern culture, history, ethics, politics, and the human condition. Design work, multimedia forms, art, music, and cinema as components informing elements of the works under consideration. 4 lectures. Crosslisted as ENGL/HNRS 352. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 353. Gender, Race, Culture, Science and Technology. 4 units
2020-21 catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
USCP
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Interdisciplinary examination of the complex relationships between gender, race, culture, science, technology in educational, work, knowledge production, policy, and ethical contexts. Topics may include reproductive, medical, genetic, and emerging technologies and exploration of efforts to create more socially responsible science/technology. 3 lectures, 1 activity. Crosslisted as ES 350/HNRS 353/WGS 350. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs); and USCP.

HNRS 351. Honors Track - Research, International, and Community Service Experience. 1 unit
Recommended: HNRS 265.

Completion of an approved Honors experience track in research, international study, or community service. Personal reflection on the experience. Peer evaluation. Presentation of the experience to the Honors and greater Cal Poly communities. For University Honors Program students only. 1 lecture.

HNRS 380. Literary Themes. 4 units
2020-21 or later: Upper-Div GE Area C
2019-20 or earlier catalog: GE Area C4
GWR
Prerequisite: Junior standing or English major; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one lower-division course in GE Area C.

Literature selected according to a particular theme. Emphasis on critical interpretation, aesthetic appreciation, and historical and cultural contexts. The Class Schedule will list topic selected. Total credit limited to 12 units. 4 lectures. Crosslisted as ENGL/HNRS 380. Fulfills GE Upper-Division C (GE Area C4 for students on the 2019-20 or earlier catalogs); and GWR.

HNRS 391. Appropriate Technology for the World's People: Development. 4 units
2020-21 or later: Upper-Div GE Area D
2019-20 or earlier catalog: GE Area D5
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and two lower-division courses in GE Area D.

A broad overview of international development and appropriate design for sustainability. Besides traditional classroom work, students work in teams to address problems with technical solutions. Collaboration with mentors from the university, private sector, and nonprofits serves to provide diverse background and project mentorship. 4 lectures. Crosslisted as HNRS/PSC/UNIV 392. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

HNRS 392. Appropriate Technology for the World's People: Design. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs). Recommended: UNIV 391 and completion of GE Area D2.

Addresses the needs of international impoverished communities with technological solutions, which are inexpensive, ecologically sustainable, and socially appropriate. Group study of target communities, and design and construction of an appropriate technology prototype. Not open to students with credit in PSC/UNIV/HNRS 492. 3 lectures, 1 laboratory. Crosslisted as HNRS/PSC/UNIV 392. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

HNRS 400. Special Problems for Advanced Undergraduates. 1-4 units
Prerequisite: Consent of Honors Program Director.

Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

HNRS 411. New Media Arts I. 4 units
Prerequisite: Junior standing; and completion of GE Area A with grades of C- or better.

Advanced-level presentation of new media theory, design and practice. Topics covered include, but are not limited to, interactivity theory, user-centered system design, cognitive psychology, media analysis, and basic web design theory. Total credit limited to 8 units. 4 lectures. Crosslisted as ENGL/HNRS 411.

HNRS 412. New Media Arts II. 4 units
Prerequisite: ENGL 411.

Advanced level of work with the primary technologies and design/critique theories currently at use in the professional creation of new media works. Lectures and readings expand upon material presented in ENGL 411. 4 lectures. Crosslisted as ENGL/HNRS 412.
HNRS 424. Design of Museum Displays of Science, Engineering and Technology. 4 units
Prerequisite: GE Area B.

The design and creation of educational museum displays that highlight science, engineering, and technology. Projects done by multidisciplinary teams and for clients in the community. Emphasis on design, teamwork, service learning and project management. 3 lectures, 1 laboratory. Crosslisted as HNRS/UNIV 424.

HNRS 450. Solar Photovoltaic System Engineering. 4 units
Prerequisite: one of the following: PHYS 104; PHYS 118; PHYS 121; or PHYS 141; and junior standing.

Engineering principles, design, and installation of solar photovoltaic power systems including grid-tie and off-grid systems. Photonic energy conversion, solar module engineering, solar power electronics, photovoltaic site planning, mechanical and structural considerations, permit processes, government incentives, and analysis of financial and investment issues. Field trips required. 3 lectures, 1 laboratory. Crosslisted as BRAE/EE/HNRS 450.

HNRS 461. Honors Capstone Seminar. 1 unit
CR/NC
Corequisite: Major-specific senior project.

Forum for graduating seniors to share their Honors experiences. Presentation and defense of a capstone project or experience before a diverse group of subject experts and laypersons. Seminars on communication and career guidance. For University Honors Program students only. Credit/No Credit grading only. 1 seminar.

HNRS 470. Selected Advanced Topics. 1-4 units
Prerequisite: Consent of instructor.

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 lectures.

HNRS 471. Selected Advanced Laboratory. 1-4 units
Prerequisite: Consent of instructor.

Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 laboratories.

HNRS 492. Appropriate Technology for the World's People: Design. 4 units
Prerequisite: Junior standing and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs); or graduate standing. Recommended: UNIV 391 and two lower-division courses in GE Area D2 (or in GE Area D3 for students on the 2019-20 or earlier catalogs).

Addresses the needs of international impoverished communities with technological solutions, which are inexpensive, ecologically sustainable, and socially appropriate. Group study of target communities, and design and construction of an appropriate technology prototype. Seminar paper required. Not open to students with credit in PSC/UNIV/HNRS 392. 3 lectures, 1 laboratory. Crosslisted as PSC/UNIV 492.

HNRS 499. Honors Group Seminar. 1 unit
CR/NC
Students in the Honors Program are required to take at least eight courses for honors credit before graduation. Taking an Honors course may not be possible due to scheduling conflicts or unavailability of courses. This course allows students to engage in honors-level work in a standard, non-honors course on a group basis. Credit/No Credit grading only. Total credit limited to 4 units, repeatable in same term. Must achieve a B or better in the related standard course. 1 seminar.