**HONORS (HNRS)**

**HNRS Courses**

**HNRS 100. Introduction to the Honors Community. 2 units**
CR/NC
Term Typically Offered: TBD
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**
GE Area A2
Term Typically Offered: F, W, SP, SU
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 A2; for students admitted Fall 2016 or later a grade of C- or better is required to fulfill GE Area A2.

**HNRS 102. Principles of Oral Communication. 4 units**
GE Area A2
Term Typically Offered: F, W, SP
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 101. 4 lectures. Crosslisted as COMS/HNRS 102. Fulfills GE A2; for students admitted Fall 2016 or later a grade of C- or better is required to fulfill GE Area A2.

**HNRS 112. Race, Culture and Politics in the United States. 4 units**
GE Area D1; USCP
Term Typically Offered: F, W, SP, SU
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 D1 and USCP.

**HNRS 131. General Physics I. 4 units**
GE Area B3; GE Area B4
Term Typically Offered: TBD
Prerequisite: MATH 141 with grade C- or better and MATH 142 or MATH 182 (or concurrent enrollment); for ME and AERO students only. Recommended: High School Physics.
Fundamental principles of mechanics. Vectors, particle kinematics. Equilibrium of a rigid body. Work and energy, linear momentum, rotational kinematics and dynamics. Primarily for engineering students, and for students majoring in the physical sciences. Not open to students with credit in PHYS 141. 3 lectures, 1 laboratory. Crosslisted as HNRS/PHYS 131. Fulfills GE B3 & B4.

**HNRS 132. General Physics II. 4 units**
GE Area B3; GE Area B4
Term Typically Offered: F, W, SP, SU
Prerequisite: PHYS 131 or HNRS 131 or PHYS 141.

**HNRS 134. General Physics IA. 4 units**
GE Area B3
Term Typically Offered: F, W, SP, SU
Prerequisite: MATH 141 with grade C- or better and MATH 142 or MATH 182 (or concurrent enrollment). Recommended: High School Physics.

**HNRS 141. Calculus I. 4 units**
GE Area B1
Term Typically Offered: F, W, SP, SU
Prerequisite: Completion of ELM requirement and passing score on appropriate Mathematics Placement Examination, 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 B1; for students admitted Fall 2016 or later, a grade of C- or better in one GE B1 course is required to fulfill GE Area B.

**HNRS 142. Calculus II. 4 units**
GE Area B1
Term Typically Offered: F, W, SP, SU
Prerequisite: MATH 141 with a grade of C- or better or consent of instructor.
Techniques of integration, applications to physics, transcendent functions. 4 lectures. Crosslisted as HNRS/MATH 142. Fulfills GE B1; for students admitted Fall 2016 or later, a grade of C- or better in one GE B1 course is required to fulfill GE Area B.

**HNRS 143. Calculus III. 4 units**
GE Area B1
Term Typically Offered: F, W, SP, SU
Prerequisite: MATH 142 with a grade of C- or better or consent of instructor.
Infinite sequences and series, vector algebra, curves. 4 lectures. Crosslisted as HNRS/MATH 143. Fulfills GE B1; for students admitted Fall 2016 or later, a grade of C- or better in one GE B1 course is required to fulfill GE Area B.
HNRS 145. Reasoning, Argumentation, and Writing. 4 units
GE Area A3
Term Typically Offered: F,W,SP,SU
Prerequisite: Completion of GE Area A1 with a C- or better, or consent of instructor. Recommended: Completion of GE Area A2.

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 A3; for students admitted Fall 2016 or later a grade of C- or better is required to fulfill GE Area A3.

HNRS 148. Reasoning, Argumentation and Professional Writing. 4 units
GE Area A3
Term Typically Offered: F, W, SP
Prerequisite: Completion of GE Area A1 with a C- or better, or consent of instructor. Recommended: Completion of GE Area A2.

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 A3; for students admitted Fall 2016 or later a grade of C- or better is required to fulfill GE Area A3.

HNRS 149. Technical Writing for Engineers. 4 units
GE Area A3
Term Typically Offered: F, W, SP, SU
Prerequisite: Completion of GE Area A1 with a C- or better, or consent of instructor; for Engineering students only. Recommended: Completion of GE Area A2.

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 A3; for students admitted Fall 2016 or later a grade of C- or better is required to fulfill GE Area A3.

HNRS 161. Creating Sustainable Communities I. 2 units
GE Area D3
Term Typically Offered: F
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. 1 lecture, 1 activity. Upon completion of HNRS 161 and HNRS 162, a student will receive 4 units of GE credit for Area D3.

HNRS 162. Creating Sustainable Communities II. 2 units
GE Area D3
Term Typically Offered: W
Prerequisite: HNRS 161. Upon completion of HNRS 161 and HNRS 162, a student will receive 4 units of GE credit for Area D3.

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. 1 lecture, 1 activity.

HNRS 163. Creating Sustainable Communities III. 2 units
Term Typically Offered: SP
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
Term Typically Offered: F, W
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
GE Area D1; USCP
Term Typically Offered: F, W, SP
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 D1 and USCP.

HNRS 207. Freedom and Equality in American History. 4 units
GE Area D1; USCP
Term Typically Offered: F, W, SP
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 D1 and USCP.

HNRS 211. Engineering Statics. 3 units
Term Typically Offered: F, W, SP
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
GE Area D3; USCP
Term Typically Offered: TBD
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 ethnic, class and gender equality, and justice. 4 lectures. Crosslisted as ES/HNRS 212. Fulfills GE D3 and USCP.
HNRS 213. Modern Political Economy. 4 units
GE Area D2
Term Typically Offered: TBD
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 HIST/HNRS 213. Fulfills GE D2.

HNRS 214. Engineering Dynamics. 3 units
Term Typically Offered: F, W, SP
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 214/ME 212.

HNRS 216. Comparative Social Movements. 4 units
GE Area D3
Term Typically Offered: TBD
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 D3.

HNRS 223. World History, 1800 - Present. 4 units
GE Area D3
Term Typically Offered: F, W, SP
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 D3.

HNRS 230. Philosophical Classics: Knowledge and Reality. 4 units
GE Area C2
Term Typically Offered: F, W, SP
Prerequisite: Completion of GE Area A, or for PHIL majors GE Area A3 (PHIL 126 recommended).
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. 4 lectures. Crosslisted as HNRS/PHIL 230. Fulfills GE C2.

HNRS 231. Philosophical Classics: Ethics and Political Philosophy. 4 units
GE Area C2
Term Typically Offered: F, W, SP
Prerequisite: Completion of GE Area A, or for PHIL majors GE Area A3 (PHIL 126 recommended).
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 C2.

HNRS 232. Masterworks of British Literature from the Late 18th Century to the Present. 4 units
GE Area C1
Term Typically Offered: F, W, SP
Prerequisite: Completion of GE Area A.
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 C1.

HNRS 241. Calculus IV. 4 units
Term Typically Offered: F, W, SP, SU
Prerequisite: MATH 143.
Partial derivatives, multiple integrals, introduction to vector analysis. 4 lectures. Crosslisted as HNRS/MATH 241.

HNRS 244. Linear Analysis I. 4 units
Term Typically Offered: F, W, SP, SU
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. Great Books I: Introduction to Classical Literature. 4 units
GE Area C1
Term Typically Offered: F, W, SP
Examines 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 Meditations. 4 lectures. Crosslisted as ENGL/HNRS 251. Fulfills GE C1.

HNRS 261. Leadership: Self Evaluation. 1 unit
Term Typically Offered: F, W, SP
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
Term Typically Offered: F
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
Term Typically Offered: SP
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
Term Typically Offered: F, SP
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
Term Typically Offered: TBD
Prerequisite: Open to undergraduate students and consent of instructor.

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

HNRS 299. Honors Group Seminar. 1 unit
CR/NC
Term Typically Offered: F, W, SP
Prerequisite: Completion of GE Area B.

HNRS 302. The Learn By Doing Lab Teaching Practicum. 2 units
CR/NC
Term Typically Offered: W, SP
Prerequisite: Junior standing; completion of GE Area A and one course from Area D1, D2 or D3.

HNRS 303. Economics of Poverty, Discrimination and Immigration. 4 units
GE Area D5; USCP
Term Typically Offered: F, W, SP
Prerequisite: Junior standing; completion of GE Area A and one course from Area D1, D2 or D3.

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 D5 except for Economics majors. Fulfills USCP.

HNRS 304. Values and Technology. 4 units
GE Area C4
Term Typically Offered: F, W, SP
Prerequisite: Junior standing; completion of GE Area A and one course from GE Area C.

HNRS 310. Air and Space. 4 units
GE Area F
Term Typically Offered: F, W, SP
Prerequisite: Completion of GE Area B.

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 Area F.

HNRS 311. Computers for Poets. 4 units
GE Area F
Term Typically Offered: TBD
Prerequisite: Junior standing and completion of GE Area B.

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 Area F.

HNRS 312. East Asian Culture and Civilization. 4 units
GE Area D5
Term Typically Offered: F
Prerequisite: Junior standing or History major; completion of GE Area A and one course from GE Area D2 or D3.

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 D5 except for History majors.

HNRS 317. The Lure of the Sea. 4 units
GE Area D5
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or History major; completion of GE Area A and one course from Area D1, D2 or D3.

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 D5 except for History majors.
HNRS 320. Topics and Issues in Values, Media and Culture. 4 units
GE Area C4
Term Typically Offered: F, W, SP
Prerequisite: Junior standing; completion of GE Area A; and completion of one of the following: GE Area C1, C2 or C3. Recommended: Completion of GE Area C1 or C3.

The interplay of values, media, and culture from an interdisciplinary perspective. Descriptive subtitles assigned to each course. The Schedule of Classes 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 C4.

HNRS 321. Undergraduate Research Methods and Practice. 4 units
Term Typically Offered: TBD
Prerequisite: Completion of GE Areas A and B1, 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
Term Typically Offered: TBD
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
GE Area D5
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or History major; and completion of GE Areas A and 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 D5 except for History majors.

HNRS 324. The Historical Novel in the United States, 1960s to the Present. 4 units
GE Area D5
Term Typically Offered: TBD
Prerequisite: Junior standing and completion of GE Areas A and D1.

An introduction to the historical novel as it has developed in the United States since the 1960s. Exploration of how historical novels typically represent the past and the ways in which they change our notion of what counts as 'history.' 4 lectures. Crosslisted as HIST/HNRS 324. Fulfills GE D5 except for History majors.

HNRS 325. Modern Europe, 1789-1914. 4 units
GE Area D5
Term Typically Offered: TBD
Prerequisite: Junior standing; completion of GE Area A and two courses from Area D1, D2 or D3. 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 D5 except for History majors.

HNRS 326. Modern Europe, 1914-Present. 4 units
GE Area D5
Term Typically Offered: TBD
Prerequisite: Junior standing; completion of GE Area A and two courses from Area D1, D2 or D3. 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 D5 except for History majors.
HNRS 336. Social Ethics. 4 units
GE Area C4; USCP
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or Philosophy major; completion of GE Areas A and 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 C4 except for Philosophy majors. Fulfills USCP.

HNRS 340. Sexuality Studies. 4 units
GE Area D5
Term Typically Offered: F, W, SP
Prerequisite: Junior standing; completion of GE Area A and one course from lower division 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 D5.

HNRS 341. The Literary Sources of the American Character: 1865-1914. 4 units
GE Area C4; GWR
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or English major; and completion of GE Areas A and C1.
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. Crosslisted as ENGL/HNRS 341. Fulfills GE C4 except for English majors. Fulfills GWR for students with junior standing (90 units).

HNRS 342. The Literary Sources of the American Character: 1914-1956. 4 units
GE Area C4; GWR
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or English major; and completion of GE Areas A and C1.
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 C4 except for English majors. Fulfills GWR for students with junior standing (90 units).

HNRS 343. Multiple Voices of Contemporary American Literature. 4 units
GE Area C4; GWR
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or English major; and completion of GE Areas A and C1.
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 C4 except for English majors. Fulfills GWR for students with junior standing (90 units).

HNRS 344. African American Literature. 4 units
GE Area C4; GWR; USCP
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or English major; and completion of GE Areas A and C1.
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. 4 lectures. Crosslisted as ENGL/HNRS 344. Fulfills GE C4 except for English majors. Fulfills USCP. Fulfills GWR for students with junior standing (90 units).

HNRS 346. Modern Drama. 4 units
GE Area C4; GWR
Term Typically Offered: TBD
Prerequisite: Junior standing or English major; and completion of GE Areas A and C1.
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, multi-media forms, art, music, and cinema as components or informing elements of the works under consideration. 4 lectures. Crosslisted as ENGL/HNRS 346. Fulfills GE C4 except for English majors. Fulfills GWR for students with junior standing (90 units).
HNRS 361. Honors Track - Research, International, and Community Service Experience. 1 unit
Term Typically Offered: SP
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
GE Area C4; GWR
Term Typically Offered: F, W, SP
Prerequisite: Junior standing or English major; and completion of GE Areas A and C1.
Literature selected according to a particular theme. Emphasis on critical interpretation, aesthetic appreciation, and historical and cultural contexts. The Schedule of Classes will list topic selected. Total credit limited to 12 units. 4 lectures. Crosslisted as ENGL/HNRS 380. Fulfills GE C4 except for English majors. Fulfill GWR for students with junior standing (90 units).

HNRS 391. Appropriate Technology for the World's People: Development. 4 units
GE Area D5
Term Typically Offered: F
Prerequisite: Junior standing; completion of GE Area A, and two courses from GE D1-D4.
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 391. Fulfills GE D5.

HNRS 392. Appropriate Technology for the World's People: Design. 4 units
GE Area F
Term Typically Offered: SP
Prerequisite: Junior standing and completion of GE Area B, or graduate standing. Recommended: UNIV 391, GE Area D2, and GE Area D3.
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 Area F.

HNRS 400. Special Problems for Advanced Undergraduates. 1-4 units
Term Typically Offered: F, W, SP
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
Term Typically Offered: TBD
Prerequisite: Completion of GE Area A; Junior standing.
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
Term Typically Offered: TBD
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
Term Typically Offered: TBD
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
Term Typically Offered: W
Prerequisite: PHYS 104 or PHYS 118 or 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/HNRS 450.

HNRS 461. Honors Capstone Seminar. 1 unit
CR/NC
Term Typically Offered: SP
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
Term Typically Offered: TBD
Prerequisite: Consent of instructor.
Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 lectures.
HNRS 471. Selected Advanced Laboratory. 1-4 units
Term Typically Offered: TBD
Prerequisite: Consent of instructor.

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

HNRS 475. Sustainable Forest and Environmental Practices. 12 units
Term Typically Offered: SU
Prerequisite: Completion of GE Area B and consent of instructor. Recommended: Junior or senior standing.

Typical modules related to sustainable forest management, ecosystem sampling and inventory methods, photo interpretation, hydrologic resources, road condition, project impact analysis, best management practices. Topics covered vary from term to term depending on the priority for learning modules. Residency at Swanton Pacific and extended field trips required. 8 lectures, 4 activities. Crosslisted as HNRS/NR 475.

HNRS 492. Appropriate Technology for the World’s People: Design. 4 units
Term Typically Offered: SP
Prerequisite: Junior standing and completion of GE Area B, or graduate standing. Recommended: UNIV 391, GE Area D2, and GE Area D3.

Addresses the needs of international impoverished communities with techno-logical 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
Term Typically Offered: TBD

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.