

# GENDER, RACE, CULTURE, SCIENCE AND TECHNOLOGY MINOR

Offered at: San Luis Obispo Campus

The Gender, Race, Culture, Science and Technology (GRCST) minor provides students with the opportunity to explore and analyze the historical and contemporary relationships between gender, race, culture, science, technology, and medicine in local, national, and transnational contexts. Utilizing feminist and critical race approaches from the fields of gender and ethnic studies, the GRCST minor examines the role of cultural, ethical, social, political, and economic factors in determining the norms, values and meanings of scientific, technological, and medical practices, with an emphasis on the ways in which the production and applications of science, technology, and medicine shape and are shaped by knowledge and beliefs about gender, race, class, and sexuality. Students completing the GRCST minor will gain important intellectual and practical skills for creating, enacting, and evaluating efforts to create more socially just, equitable, and inclusive science, technology, and medicine in an increasingly diverse and globalized world. The GRCST minor is not open to students who have declared a minor in one of the other STS minors: Ethics, Public Policy, Science and Technology (EPPST); Media Arts, Society and Technology (MAST); and Science Communication (SC).

## Program Learning Objectives

1. Understand and evaluate the interconnectedness between science, technology and the social, political, cultural and environmental dimensions of our world with an emphasis on the complex relationships between gender, race, science, and technology.
2. Identify, analyze and contextualize competing understandings of and arguments about how science and technology shape and are shaped by social, cultural, political, and economic factors in historical and contemporary contexts and in conjunction with knowledge and beliefs about gender, race, class, and sexuality in national and transnational contexts.
3. Explain key concepts, terms, and frameworks from research on the complex relationships between gender, race, science, and technology, and apply these concepts, terms, and frameworks to conduct interdisciplinary research and/or engage in creative activities in individual and group settings.
4. Exhibit effective, ethical and inclusive communication skills allowing them to communicate about the complex relationships between gender, race, science, and technology to multiple audiences.
5. Recognize emergent scientific and technological challenges, promote more socially responsible scientific and technical practices, and work, collaborate, and interact more responsibly and effectively in an increasingly diverse and globalized workplace and world.

## Minor Requirements and Curriculum

The minor must be completed prior to, or at the same time as, the requirements for the bachelor's degree. A major and a minor may not be taken in the same degree program, and a minor is not required for a degree. Requirements for the minor include:

- At least half of the units must be from upper-division courses (3000-4000 level).
- At least half of the units must be taken at Cal Poly (in residence).
- No more than one-third of the units will be taken with credit-no credit grading (CR/NC), not counting courses with mandatory CR/NC. Departments may further limit CR/NC grading if desired.
- A minimum 2.0 GPA is required in all units counted for completion of the minor.

| Code                                               | Title                                                                   | Units |
|----------------------------------------------------|-------------------------------------------------------------------------|-------|
| <b>REQUIRED COURSES</b>                            |                                                                         |       |
| ES/WGQS 3350                                       | Gender, Race, Culture, Science, and Technology                          | 4     |
| ISLA 1123                                          | Introduction to Science, Technology, and Society                        | 3     |
| ISLA 4456                                          | Advanced Project-Based Learning in Science, Technology & Society        | 4     |
| Gender, Race, Culture, Science and Technology Core |                                                                         |       |
| Select from the following:                         |                                                                         | 6-8   |
| ANT/ISLA 3393                                      | Action-oriented Ethnography                                             |       |
| ANT 4401                                           | Culture and Health                                                      |       |
| ANT 4425                                           | Meaning, Gender, and Identity in Anthropological Theory                 |       |
| ANT 4460                                           | Queer Anthropology                                                      |       |
| ES/WGQS 3351                                       | Gender, Race, Class, Nation: Critical Computing and Engineering Studies |       |
| ES 3360                                            | Indigeneity and the Land                                                |       |
| ES 3390                                            | Research Methodology in Comparative Ethnic Studies                      |       |
| or ISLA 3355                                       | Interdisciplinary Research Methods                                      |       |
| or WGQS 3305                                       | Feminist and Queer Methodologies                                        |       |
| ES 4406                                            | Indigenous Peoples, International Law, and Policy                       |       |
| NR 3308                                            | Fire and Society                                                        |       |
| SOC 4435                                           | Sociology of Health and Illness                                         |       |
| WGQS 3301                                          | Contemporary Issues in Women's and Gender Studies                       |       |

|                                                         |                                                      |           |
|---------------------------------------------------------|------------------------------------------------------|-----------|
| WGQS 3302                                               | Contemporary Issues in Queer Studies                 |           |
| Gender, Race, Culture, Science and Technology Electives |                                                      |           |
| Select from the following:                              |                                                      | 3-4       |
| ANT 3360                                                | Human Cultural Adaptations                           |           |
| ENGL 3349                                               | Trans Literatures                                    |           |
| ENGL 3374                                               | Disability and Diversity in U.S. Film                |           |
| ENGL 2274                                               | Survey of Queer and Trans Literature and Media       |           |
| ES 1112                                                 | Race, Culture, and Politics in the United States     |           |
| HIST 3350                                               | The Scientific Revolution: 1500-1800                 |           |
| HIST 3355                                               | History of Network and Information Technologies      |           |
| HLTH 1155                                               | Multicultural Perspectives and Health                |           |
| HLTH 1160                                               | Women's Health and Society                           |           |
| ISLA 2255                                               | Introduction to Interdisciplinary Theory and Methods |           |
| ISLA 3303                                               | Values and Technology                                |           |
| ISLA 3320                                               | Issues in Values, Media and Culture                  |           |
| ISLA/AG/EDES/ENGR/GEOG/SCM/UNIV The Global Environment  |                                                      |           |
| 3350                                                    |                                                      |           |
| JOUR 2219                                               | Mass Media in a Cross-Cultural Society               |           |
| LA 3304                                                 | Contemporary Issues in Cultural Landscapes           |           |
| PHIL 3339                                               | Biomedical Ethics                                    |           |
| POLS/WGQS 4457                                          | U.S. Reproductive Politics                           |           |
| PSY 2252                                                | Social Psychology                                    |           |
| PSY/WGQS 3324                                           | Psychology of Gender                                 |           |
| PSY 3359                                                | Topics in Multicultural Psychology                   |           |
| SOC 3308                                                | Sociology of the Environment                         |           |
| SPAN 3380                                               | Spanish for the Professions <sup>1</sup>             |           |
| WGQS 2201                                               | Gender and Sexuality in US Society and Politics      |           |
| WLC 3370                                                | Language, Technology and Society                     |           |
| <b>Total Units</b>                                      |                                                      | <b>20</b> |

<sup>1</sup> Topic courses require department approval. Please contact department for a list of approved topics.