

The Minor in Biomedical Research

The interdepartmental Minor in Biomedical Research is designed to help you get involved in laboratory research at an early point in your college career. After initial training courses, you are placed in a laboratory in the College or Medical School for a minimum of four quarters of research. In addition to your research, you take courses in analysis of research literature, oral presentation of research data, science policy and ethics, and history or philosophy of science. Our curriculum trains you in both the process of scientific research and the social issues facing science today.

Course requirements to complete the Minor

Check the course catalog for [course](#) descriptions

- 1) **BMD RES 5HB** -Biomedical Research: Essential Skills and Concepts. (4 units)
BMD RES 5HB is required prior to enrollment in BR 193H or BR 194H.
- 2) **At least 4 quarters letter-graded laboratory research** (i.e. 198 or 199) (4 units each quarter). **You must submit a thesis at the end of your research. See number 8.**
- 3) **BMD RES 193H** – Journal Club Seminars: Current topics in life sciences. (2 units)
- 4) **BMD RES 194H** – Research Group Seminars: Data presentation in life sciences. (2 units)
- 5) **MCDB 60** – Biomedical Ethics. (5 units; *GE in Philosophical & Linguistic Analysis*)
- 6) **One upper division course in history or philosophy of science** – Approved courses include:
 - CLASSIC 148 Early Greek Medicine and Thought. (5 units)
 - COM HLT 100 Introduction to Community Health Sciences. (4 units)
 - ENGR 183EW Engineering and Society. (4 units)
 - ENGR 185EW. Art of Engineering Endeavors. (4 units)
 - ENV HLT 100. Introduction to Environmental Health. (4 units)
 - GENDER 134 Gender, Science, and Theory. (4 units)
 - GRNTLGY M108. Biomedical, Social, and Policy Frontiers in Human Aging. (5 units)
 - HIST 179A. Variable Topics in History of Medicine. (4 units)
 - HIST 179B. History of Medicine: Foundations of Modern Medicine. (4 units)
 - HIST 179C. Medicine and Society in 20th Century America (4 units)
 - HIST 180A. Topics in History of Science. (4 units)
 - HIST M180B. Historical Perspectives on Gender and Science. (4 units)
 - HNRS 141 Biology and Medicine in Postgenomic Era. (4 units)
 - HNRS 105 Racial and Ethnic Disparities in Healthcare. (5 units)
 - HNRS 174 Future Impact of Nano in new Technologies. (5 units)
 - HNRS M183. Being Human: Identity and Mental Illness (5 units)
 - NEUROBIO M169. History of Neurosciences. (4 units)
 - NURSING C155. Global Health Elective: Globalization, Social Justice, and Human Rights. (3 units)
 - PHILOS 124. Philosophy of Science: Historical. (4 units)
 - PHILOS 125. Philosophy of Science: Contemporary. (4 units)
 - PHILOS 137. Philosophy of Biology. (4 units)
 - PHILOS 155. Medical Ethics. (4 units)
 - PSYCH 188B. Special Courses in Psychology. **depends on topic** (4 units)
 - PUB HLT M106. Health in Chicano/Latino Population. (4 units)
 - PUB HLT C150. Fundamentals of Public Health. (4 units)
 - SOC GEN 102. Societal and Medical Issues in Human Genetics. (5 units)
 - SOC GEN 188. Special Courses in Society and Genetics **depends on topic** (5 units)
 - SOC GEN 191. Variable Topics Research Seminars: Perspectives in Society and Genetics **depends on topic** (5 units)
 - SOCIOL 143. Human Health and Society. (4 units)
 - SOCIOL 191V. Variable Topics Research Seminars: Sociology **depends on topic** (5 units)

Other courses may be approved on petition; please contact the [Student Services Advisor](#) to inquire about specific courses.
- 7) **You must participate in at least one conference or poster session (e.g. Research Poster Day) where you present your research.**
- 8) **You must submit a Senior Thesis** that adequately describes the research carried out during your four quarters of 199/198. It should be written in the format of a primary research paper. If you are pursuing Departmental Honors in your major, that thesis can also be used for the Minor.

IMPORTANT – GPA requirements: You must maintain a cumulative GPA of at least 3.0 and a grade of at least 3.0 (B) in all courses for the Minor. Failure to do so may result in dismissal from the program.

For more information, contact bmdresminor@lifesci.ucla.edu or Enika Tumanov etumanov@lifesci.ucla.edu.