University Research Curriculum
Course Listing with Substitute Courses for BUILD Trainees

The following courses were developed by the CSULB BUILD Initiative for the University. Trainees in the BUILD program are required to take these courses, or approved substitute courses. Before taking an alternative/substitute course, the trainee must get approval from their Learning Community Training Director. RSCH courses can be found under University Research. Students can view the current class schedule from http://www.csulb.edu/student-records/schedule-of-classes.

Scholars are required to take at least two courses during the program (one per academic year). For Scholars who start the program in Fall 2019 or later, one of the two courses must be Scientific Research Communication. Taking more courses than the minimum of two is encouraged.

Fellows are required to take at least one course during the program. It is strongly recommended that Fellows take Scientific Research Communication. Taking more courses than the minimum requirement is encouraged.

RSCH 207 - Interdisciplinary Approaches to Health Disparities (3)
General Education: Social Sciences & Citizenship (D.2), Human Diversity
Prerequisite: At least one GE Foundation requirements
This course covers the definition, prevalence, risk and protective factors, and interventions for health disparities among diverse populations. Using problem-based approaches, students will learn about discipline-specific and interdisciplinary methods to address common biomedical issues in a culturally relevant way.

Alternate Courses:
  HSC 407: Health Equity and Health Disparities in the US

RSCH 296A – Introduction to Biomedical Research Methods (3)
Introduction to principles and ethics of experimentation, hypothesis formulation and testing. Students will learn data measurement, analysis and presentation, how to find and read scientific literature, keep a laboratory notebook and basic data graphing and analysis skills.

Alternate Courses:
  The first choice alternative would be the RSCH 296B – Introduction to Behavioral Research Methods

  Other options include:
  HDEV 320: Research Methods
  MAE 300: Engineering Instrumentation and Measurement
  PSY 220: Intro to Research Methods

RSCH 296B - Introduction to Behavioral Research Methods (3).
Introduces topics for inquiry and analysis in behavioral and social science research. Historical events shaping current ethical standards for research guide research design, analysis, and reporting. Students learn observation and experimentation, hypotheses formulation and testing, measurement, analysis, and reporting.

Alternate Courses:
  The first choice alternative would be the RSCH 296A – Introduction to Biomedical Research Methods
Other options include:
CRJU 320: Criminal Justice Research Methods
GEOG 200: Intro to Research Methods for Geographers – Geology majors only
HCA 465: Analysis and Evaluation of Health Care Services
HDEV 320: Research Methods
LING 301: Intro to Research Methods – Linguistics majors only
NRSG 450: Nursing Research
PSY 220: Intro to Research Methods
REC 341: Evaluation and Research in Leisure Services – Recreation & Leisure Studies majors only
SOC 270: Introduction to Research Methods
SW 465: Research Methods in Social Work – Social Work majors only

**RSCH 361 – Scientific Research Communication (3)**
General Education: Upper Division Capstone Category F Writing Intensive
Prerequisites: Completion of the GE foundation, completion of one explorations course, score of 11 or higher on the GWAR Placement Examination or successfully completed the necessary portfolio course that is a prerequisite for a GWAR Writing Intensive Capstone.
Introduction to technical writing for students pursuing research careers. Accessing and using research literature. Writing technical and research reports for various purposes and audiences. Oral presentation of research and scientific information. Includes intensive writing.

**RSCH 496A - Advanced Biomedical Research Methods (3)**
General Education: Upper Division Capstone Category F Advanced Skills
Prerequisites: Upper Division standing, completion of the GE Foundation, one or more Explorations courses and HHS 361 or C/LA 361 or RSCH 361 or NSCI 361.
An advanced study of the theoretical and practical aspects of conducting biomedical research including hypothesis formulation, experimental design, assessment of error within empirical data, and the preparation of sound and fundable grant proposals.
Alternate Courses:
RSCH 496B – Advanced Behavioral Research Methods

**RSCH 496B - Advanced Behavioral Research Methods (3)**
General Education: Upper Division Capstone Category F Advanced Skills
Prerequisites: Upper Division standing, completion of the GE Foundation, one or more Explorations courses.
An advanced study of the theoretical and practical aspects of conducting behavioral research including hypothesis formulation, experimental design, assessment of error within empirical data, and the preparation of sound and fundable grant proposals.
Alternate Courses:
The first choice alternative would be the RSCH 496A – Advanced Biomedical Research Methods

Other options include:
PSY 411: Statistical Design and Analysis of Experiments – Psychology Majors only
PSY 412: Multivariate Statistical Analysis
PSY 433: Research in Cognition and Learning
PSY 451: Research in Social Psychology
KIN 483: Measurement and Evaluation in Kinesiology
SOC 355: Quantitative Methods of Social Research

Additionally, CHHS students may take a graduate-level course on Research Methods in their major (listed under XXX-696 course number) with an approval of the major advisor/department.