

Research-infused Curriculum Course Listing for BUILD Trainees (Effective Fall 2020)

Trainees in the BUILD program are required to take research-infused courses during their participation in the program. Scholars are required to take at least two courses (one per academic year). Fellows are required to take at least one course. It is strongly recommended that trainees take the Scientific Research Communication course. Taking more courses than the minimum requirement is encouraged. When available, trainees are highly encouraged to take the research-infused courses that were developed by the BUILD program, including RSCH 207, ENGR 361, and RSCH 496A. The current class schedule can be viewed from <http://www.csulb.edu/student-records/schedule-of-classes>. RSCH courses can be found under University Research.

Note: Student must check the pre-requisite requirements for the courses and consult the respective instructor/department if a permit is needed to add the class. Permission to add the class is at the discretion of the instructor/department.

RSCH 207 - Interdisciplinary Approaches to Health Disparities (3 units)

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. Note: RSCH 207 is expected to be offered as HDEV 303 - Interdisciplinary Approaches to Health Disparities starting Fall 2021.

Alternate Course:

HSC 407: Health Equity and Health Disparities in the US

Research Methods

These courses cover theoretical and practical aspects of conducting biomedical or behavioral/social sciences research including hypothesis formulation, conducting literature review, experimental design, assessment of error within empirical data, ethics of experimentation, and interpretation/presentations of the results.

CRJU 320: Criminal Justice Research Methods

HCA 465: Analysis and Evaluation of Health Care Services

HDEV 320: Research Methods

KIN 483: Measurement and Evaluation in Kinesiology

LING 301: Intro to Research Methods – Linguistics majors only

MAE 300: Engineering Instrumentation and Measurement

NRSG 450: Nursing Research

PSY 310: Intermediate Statistics

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

REC 341: Evaluation and Research in Leisure Services – Recreation & Leisure Studies majors only

RSCH 496A: Advanced Biomedical Research Methods

SOC 355: Quantitative Methods of Social Research

SW 465: Research Methods in Social Work – Social Work majors only

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.

ENGR 361 – Scientific Research Communication (3 units)

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 GEAR Placement Examination or successfully completed the necessary portfolio course that is a prerequisite for a GEAR 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.

Alternate Course:

CHEM 361: Chemical Communications

Redesigned Research-infused Courses (Available starting Fall 2020)

The following upper-division courses have been redesigned to exemplify the integration of discipline-specific research in the course activities through the funding support from the BUILD Research Across the Curriculum: Course Redesign Program. Students may take any of the following courses. For courses with multiple sections, student must take the section with the listed instructors, who were the recipients of the Course Redesign awards:

College of Engineering

MAE 409A: Finite Element Analysis I (Dr. Daniel Whisler)

College of Health and Human Services

HCA 465: Analysis and Evaluation (Dr. Yang Lu)

College of Liberal Arts

PSY 379: Psychology of Stress (Dr. Guido Urizar)

College of Natural Sciences and Mathematics

BIOL 370: General Genetics (Dr. Judy Brusslan)