UC Riverside
2020-2021 Majors and Curriculum Updates

New Major

Data Science B.S.
Data science studies the collection, management, and analysis of data to extract knowledge. It is a multidisciplinary program with core components from Computer Science and Statistics, and required application study in a variety of empirical disciplines. Courses span the discipline from theory to practice and prepare students for careers or graduate studies in data-intensive fields.

The B.S. in Data Science major is an intercollege major offered by the Bourns College of Engineering and the College of Natural and Agricultural Sciences. A B.S. degree in Data Science is offered by each college. When students declare the major, they choose from which college they wish to have their degree awarded. Students whose degrees are awarded by the Bourns College of Engineering are advised in and have their records maintained by the BCOE Office of Student Academic Affairs; students whose degrees are awarded by the College of Natural and Agricultural Sciences are advised in and have their records maintained by the CNAS Undergraduate Academic Advising Center. Breadth requirements vary by college; and students must fulfill the breadth requirements of the college they choose.

Majors with Name Changes

No change.

New Concentrations

No change.

Change to College/School

No change.

Curriculum

New Courses (Winter 2020)
FREN 26 (CPLT 26/GSST 26) - Introduction To Literature, Film, And Art By French And Francophone Women (4) 4 Units, Lecture, 3 hours; extra reading, 3 hours. Prerequisite(s): none. Analyzes literature, art, and film by French and Francophone women from the 1400s to the present. Topics including marriage, motherhood, war, postcolonial conditions, space, sexual identity, fashion, feminism, and modernity. Studies transnational points of view of French-speaking women from and in Europe, Africa, and Asia. Course taught entirely in English.   Cross-listed with CPLT 026, and GSST 026.
HIST 88 Digital Storytelling: Mapping City Life (4) 4 Units, Lecture, 3 hours; term paper, 3 hours. Prerequisite(s): none. Introduces the use of digital storytelling platforms that employ mapping and timelines to analyze primary and secondary sources, as well as to develop and present narratives about the past. Focuses on nineteenth- and

twentieth-century cities, addressing themes that include race, gender, labor, migration, sex work, and slavery.

New Courses (Spring 2020)

ANTH 50 - Human Evolution (4)
4 Units, Lecture, 3 hours; research, 3 hours. Prerequisite(s): none. Explores the evolutionary history of humans as biocultural beings adapting to changing environments. Examines fossils, genetics, and archaeological data.

CRWT 48 (Restored) - Craft Of Writing: Survey In Contemporary Nonfiction (4)
4 Units, Lecture, 3 hours; extra reading, 3 hours. Prerequisite(s): none. A survey of selected works of contemporary nonfiction and related texts. Emphasizes the craft of nonfiction and how craft contributes to meaning.   Course is repeatable as content or topic changes to a maximum of 8 units. Credit is awarded for one of the following CRWT 048 or CRWT 048S with the same content or topic.

MCS 7 (Restored) - Digital Journalism And Society (4)
4 Units, Lecture, 3 hours; extra reading, 1 hour; written work, 1 hour; term paper, 1 hour. Prerequisite(s): none. Explores the emerging field of digital journalism. Discusses its theoretical, professional, and practical dimensions. Topics include history, technology, political economy, content, and pattern of digital journalism; innovative journalistic practices; and the impact of digital media on contemporary culture, politics, and society.

MCS 11 - Drug Markets As Conformity And Resistance (4)
4 Units, Lecture, 3 hours; extra reading, 2 hours; term paper, 1 hour; written work, 2 hours. Prerequisite(s): none. Examines the emergence, stability, and decline of illegal drug markets. Analyzes the meanings, behaviors, and interactions of illegal drug market participants. Emphasizes the roles of economic, political, and criminal justice factors in shaping and influencing illegal drug markets.

MCS 12 - Gangs: A Critical Analysis (4)
4 Units, Lecture, 3 hours; extra reading, 2 hours; term paper, 1 hour; written work, 2 hours. Examines the origins, growth, and decline of gangs. Analyzes the meanings, behaviors, and interactions of gang members within their communities. Emphasizes the importance of the economy, politics, public perceptions, and historical context in shaping and influencing gang formation and structure.

MCS 69 - The Politics Of Public Space (4)
4 Units, Lecture, 3 hours; written work, 1 hour; extra reading, 2 hours. Examines gender and disability from a feminist perspective. Explores how gender and disability shape all aspects of social life: institutions, identities, bodies, discourses. Introduces feminist and queer theories of disability. Critically engages with societal responses to disability such as eugenics, exclusion, and institutionalization. Considers possibilities for feminist disability justice. Credit is awarded for one of the following GSST 013 or GSST 013S.

PHYS 50 - Introduction To Applied Data Science: A Multi-Disciplinary Approach (4)
4 Units, Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): none. Introduces students from different disciplines (physical, biological, engineering, finance, economy, humanities) to data science techniques and applications. Provides background knowledge in data science and prepares for a career in this field. Provides basic knowledge to continue on to more advanced topics in data science and apply it to practical problems.

New Courses (Summer 2020)

GRK 10 - Classical Greek: An Intensive Course (4)

14 Units, Lecture, 14 hours. An intensive introduction to the fundamentals of Classical Greek grammar, aimed at rapidly acquiring a basic proficiency in reading ancient Greek authors. Credit is awarded for one of the following GRK 010, GRK 001, GRK 002, or GRK 003.

New Courses (Fall 2020)

CBNS 10 - The Human Brain: A User's Guide (4)
4 Units, Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): none. Introduction to contemporary neuroscience, intended for both science and non-science majors. Topics include foundational principles of brain organization, nerve and glial cell form and function, synaptic transmission, and the neural mechanisms underlying human behavior and physiology. Also discusses neuroscience methods and neurological diseases and disorders. Credit is not awarded for CBNS 010 if it has already been awarded for CBNS 106 or PSYC 110.

CS 10A (Renumbered, previously CS 10) - Introduction To Computer Science For Science, Mathematics, And Engineering I (4)
4 Units, Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): MATH 008B, may be taken concurrently or MATH 006B, may be taken concurrently or MATH 007A, may be taken concurrently or MATH 09HA, may be taken concurrently or MATH 008A, may be taken concurrently or MATH 005, may be taken concurrently or MATH 009A, may be taken concurrently. Covers problem solving through structured programming of algorithms on computers using the C++ object-oriented language. Includes variables, expressions, input/output (I/O), branches, loops, functions, parameters, arrays, strings, file I/O, and classes. Also covers software design, testing, and debugging. Credit is awarded for one of the following CS 010A, CS 009M, or CS 009P.

CS 10B (Renumbered, previously CS 12) - Introduction To Computer Science For Science, Mathematics, And Engineering II (4)
4 Units, Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 010A with a grade of C or better; familiarity with C or C++ language. Covers structured and object-oriented programming in C++. Emphasizes good programming principles and development of substantial programs. Topics include recursion, pointers, linked lists, abstract data types, and libraries. Also covers software engineering principles. Credit is awarded for one of the following CS 010B or CS 013.

CS 10C (Renumbered, previously CS 14) - Introduction To Data Structures And Algorithms (4)
4 Units, Lecture, 3 hours; laboratory, 3 hours. Prerequisite(s): CS 010B with a grade of C or better; proficiency in C++. Topics include basic data structures such as arrays, lists, stacks, and queues. Covers dictionaries (including binary search trees and hashing) and priority queues (heaps). Offers an introductory analysis of algorithms, sorting algorithms, and object-oriented programming, including abstract data types, inheritance, and polymorphism. Explores solving complex problems through structured software development.

GSST 13 - Gender And Disability (4)
4 Units, Lecture, 3 hours; written work, 1 hour; extra reading, 2 hours. Examines gender and disability from a feminist perspective. Explores how gender and disability shape all aspects of social life: institutions, identities, bodies, discourses. Introduces feminist and queer theories of disability. Critically engages with societal responses to disability such as eugenics, exclusion, and institutionalization. Considers possibilities for feminist disability justice. Credit is awarded for one of the following GSST 013 or GSST 013S.

MUS 37 - Introduction To Composition (4)
4 Units, Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): MUS 001, MUS 010, may be taken concurrently; or consent of instructor. Introduces the art of music composition through applied exercises. Covers basic computer music notation. Course is a prerequisite for Music Majors in the Composition Track.

Removed from Assist Database (Fall 2020)
LATN 004 - INTERMEDIATE LATIN (4)