UC San Diego Fall 2018 New Majors – Palomar Articulation Cross-Walk

***Advising tool only, please reference department webpage and ASSIST legacy for up to date changes**

Business Psychology

The Business Psychology major is designed to train students to apply psychological principles to the workplace and to organizational challenges and opportunities therein.

3 Natural Science Courses (choose **three** of the following)

- BIOL 100 or 101, 110, 200 & 201, 211;
- CHEM 100, 105, 110, 115, 205;
- PHYS 200, 201, 230, 231;
- PSYC 210

3 Formal Skills Courses

- MATH 140, 141;
- PSYC 230

1 Computer Programming Course (choose **one** of the following)

- CSCI 112, 114, 210, 220 (deactivated as of Fall 2018)

1 Statistics Course (choose **one** of the following) - Statistics must be taken for a **letter grade**.

- MATH 120 or PSYC/SOC 205

2 Business Fundamentals Courses - Business Fundamentals must be taken for a **letter grade**.

- MGT 16 not articulated
- MGT 18 not articulated

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Oceanic and Atmospheric Science

Undergraduates in the Oceanic and Atmospheric Sciences major will develop an understanding of the fundamental physics and chemistry governing the ocean and atmosphere. The major engages students in a wide range of topics of scientific interest and increasing social concern including ocean waves, tides, and circulation, natural climate variability including El Niño, human-caused climate change, global warming, ocean acidification, atmospheric storms, oceanic eddies.

Students will acquire the tool to address these topics through basic knowledge of the fluid dynamics and chemical principles relevant to the ocean and atmosphere. Drawing on the expertise at Scripps Institution of Oceanography, the curriculum includes modern approaches to data collection in the ocean and atmosphere, and the analysis of the resulting big data sets.

The oceanic and atmospheric sciences curriculum takes advantage of the unique opportunities at Scripps Institution of Oceanography. Classes beyond the introductory level are usually small, permitting personalized instruction, but with access to the resources of a large research university. There are abundant opportunities for undergraduates to work alongside faculty, staff and graduate students on research applications, both observational and theoretical. The major is interdisciplinary by nature and has close connections to courses and research applications in physics, chemistry, engineering, earth sciences, and environmental systems.

Lower Division Requirements

- MATH 140, 141, 200, 205, 206;
- PHYS 230, 231;
- CHEM 110, 115, 115L;
- SIO 60 not articulated

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Real Estate and Development

The curriculum for the Bachelor of Science in Real Estate and Development is broad and interdisciplinary in response to the diverse ways in which real estate impacts the ways people live, work, and enrich their lives. Required courses include economics, business management, urban planning, real estate finance, real estate law, sustainable development, and urban design. All coursework is designed to facilitate qualitative, quantitative, analytical, strategic, design, and problem-solving, solutions-oriented skills. Majors are encouraged to pair their degree with a minor degree in one of the many minor degrees offered at UC San Diego, particularly those offered by the Rady School of Management including the minor in business and the minor in entrepreneurship and innovation.

Lower Division Requirements

7 Courses Required
USP 1 or 2, 5, 15 not articulated;
MATH 140;
ECON 102;
ACCT 201, 202

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Data Science – not available for transfer students or articulation at this time

Prospective students should contact Margaret Zuhlke 858-534-5435

Data science is concerned with drawing useful and valid conclusions from data. Data scientists develop mathematical models, computational methods and tools for exploring, analyzing and making predictions from data. They ask appropriate questions about data and interpret the predictions based on their expertise of the subject domain.

The primary goal for the data science major is to train a generation of students who are equally versed in predictive modeling, data analysis, and computational techniques. To this end, in addition to learning about data science models and methods, students will acquire expertise in a particular subject domain. The major also educates students about the societal impact of data science so that they can make responsible decisions as data science practitioners.

The major consists of 116 units with 56 units from lower-division courses and 60 units from upper-division courses. The lower-division curriculum includes calculus and linear algebra courses for 16 units, data science courses for 28 units, and subject domain courses for 12 units. The program includes twenty units of elective courses that will enable students to embark upon an in-depth exploration of one or more areas in which data science can profitably be applied. Alternatively, students can choose to explore the mathematical, statistical, and computational foundations of data science in even greater depth.

All majors will be required to undertake a senior project that will give them an opportunity to creatively synthesize much of what they have learned in the data science courses for addressing problems in chosen domains.

Lower-division requirements (56 units)

Students are expected to complete the following fifty-six units by the end of their second year. If you are not on track to do so, please consult with the Undergraduate Advisor to ensure you are on track for your time to degree. All lower-division courses must be taken for a letter grade. A minimum grade of C- is required.

Mathematics:
MATH 140, 141, 200, 205;

Data Science:
COGS 9 not articulated;
DSC 10, 20, 30, 40A, 40B, 80 not articulated;

Subject Domain Courses: Students must choose one of the following course sequences
BIOL 200, 201;
CHEM 110, 115;
PHYS 230, 231