

SCIENTIFIC WORLD (SW)

SW 217 | UNDERSTANDING AND MEASURING INTELLIGENCE | 2-4 quarter hours (Undergraduate)

In this course, students examine intelligence testing and its uses in employee selection and placement. Students learn the principles of assessing human traits (reliability, validity, bias and other systematic errors), and apply them to intelligence testing. We will work to define "intelligence" and consider various approaches to intelligence, contrasting the theories of unitary vs. multiple intelligences. Students will examine the implications of the definitions and measurement approaches on different groups of people, both historically and currently, with attention to the unintended effects of the biases of test developers and the ethical implications of different approaches and uses of intelligence testing.

SW 244 | STATISTICAL REASONING: UNDERSTANDING AND USING STATISTICS | 2-4 quarter hours (Undergraduate)

This course will teach students the basic concepts of statistics. Students will investigate topics including descriptive statistics, correlation, normal distributions, probability, sampling distributions and hypothesis testing. By the end of this course, students will be able to complete a statistical analysis of datasets using Microsoft Excel as the primary tool. Considerable time will also be devoted to discussing how statistics are used and abused.

SW 320 | TECHNOLOGY, CRIME, AND CIVIC ENGAGEMENT | 4 quarter hours (Undergraduate)

The focus of this course is the well-functioning civic community, and its reliance on the productive engagement of its members (group and individual). We examine crime in the age of the internet, and use models of civic engagement to posit novel solutions to these "hidden" and ubiquitous activities.