

MATHEMATICAL SCIENCES SUBSTITUTIONS

BUSI 100 [071] Financial Accounting (4). Pre- or corequisite, ECON 101. Role of accounting; basic concepts and methodology; mass data processing; valuation and income determination principles; management and internal control problems; and basic financial statement components.

COMP 121 [015] Introduction to Functional Programming (3). An introduction to programming in the functional programming style, e.g., using a dialect of LISP. A brief introduction to an imperative language such as Pascal. A first course for prospective majors or students with some programming background. Students can receive credit for only one of COMP 110, 116, or 121.

GEOG 370 [070] Introduction to Geographic Information (3). A survey of geographic data sources including maps, photos, digital images, Census information, and others. Emphasis is on appropriate uses, limitations, and skilled interpretation in physical and human geography applications. (Core)

INLS 200 [040] Retrieving and Analyzing Information (3). Introduction to and application of the processes that can be used in seeking information, evaluating the quality of the information retrieved, and synthesizing the information into a useful form.

MASC 310 Our Changing Planet: Science, Social Impacts, Solutions (3). Permission of the instructor. Restricted to juniors and seniors. An overview of the scientific basis for global warming, current and future impacts on society, options for mitigation and adaptation, and the role of politics and the media.

PHIL 155 [021] Introduction to Mathematical Logic (3). Introduces the theory of deductive reasoning, using a symbolic language to represent and evaluate patterns of reasoning.

PHIL 157 Logic and Decision Theory (3). A broader discussion of practical reasoning, including inductive and deductive logic, which provides a good introduction to decision and game theory that is important for the social sciences, especially economics.

PHIL 356 [071] Topics in Mathematical Logic (3). Prerequisite, PHIL 155. Topics may include the predicate calculus with identity and the metalogic of formal systems, modal logic, decision theory, alternative logics, probability, and induction.

PHIL 357 Induction, Probability, and Confirmation (3). Current accounts of evidence and observation, the confirmation of scientific theories, the logic of inductive reasoning, and the metaphysics and epistemology of chance.

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