Minor in Applied Statistics

Information
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The Program
It is increasingly necessary for practitioners in any quantitative discipline to have a substantial background in statistics. Whereas statistics has traditionally played a central role in the biological and natural resources sciences, it is now equally important in business, economics, and the social sciences.

The applied statistics minor is designed to provide the broad statistical knowledge and practical skills needed for application of statistical techniques to research and management problems in a wide variety of disciplines. The introductory, intermediate, and topics courses include computer laboratory sessions, in which students learn to use statistical software. The minor culminates with an upper division applications course.

Different choices for the introductory, intermediate, and applications courses make the applied statistics minor an attractive complement to bachelor’s degree programs in business, economics, psychology, and the biological and natural resources sciences.

REQUIREMENTS FOR THE MINOR

MATH 102 (4) Algebra & Elementary Functions, or equivalent

One of the following calculus courses:
MATH 105 (3) Calculus I
MATH 109 (4) Calculus I

One of the following introductory courses:
PSYC 241 (4) Introduction to Psychological Statistics
STAT 108 (3) Elementary Statistics
STAT 108i (3) Elementary Statistics with Integrated Support
(Coreq: STAT 8)
STAT 109 (4) Introductory Biostatistics

One of the following intermediate courses:
BA 332 (4) Intermediate Business Statistics
PSYC 478 (4) Analysis of Variance
STAT 333 (4) Linear Regression Models/ANOVA

Two topics courses from the following list:
STAT 323 (4) Probability & Statistics
STAT 404 (4) Multivariate Statistics
STAT 406 (4) Sampling Design & Analysis
STAT 410 (4) Modern Statistical Modeling
STAT 480 (1-3) Special Topics in Statistics

One advanced applications course from the following list:
BA 446 (4) Marketing Research
FISH 458 (4) Fish Population Dynamics
FDR 311 (4) Forest Mensuration & Growth
PSYC 488 (4) Regression/Multivariate Topics
WLDF 311 (4) Wildlife Techniques
WLDF 478 (3) Animal Energetics

Minor in Appropriate Technology

Advisors
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The Program
The term “appropriate technology” challenges the presumed inevitability or naturalness of technological development. At the same time, the question of which technologies are “appropriate” resists easy or predetermined answers. An HSU minor in appropriate technology allows students to familiarize themselves with promising technologies, while also developing their understanding of the political, social, and economic processes by which choices about technologies are — and might be — made.

Courses enable students to combine theory and practice, often through hands-on projects at the Campus Center for Appropriate Technology (CCAT). CCAT is a student-run, living laboratory and demonstration home on the HSU campus. It models effective energy use, a photovoltaic electrical system, solar hot water heating, graywater recycling, a composting privy, organic gardening, low-impact building materials, and many other technologies, in a residential setting.

The minor can be of particular value to students wishing to pursue careers in science, public policymaking, or community development. It can also be useful for students wishing to volunteer for the Peace Corps or other overseas development work. For those wishing to design and develop technological systems professionally, the minor is not an adequate substitute for a major in Environmental Resources Engineering or a related field.

REQUIREMENTS FOR THE MINOR

ENST 123 (2) CCAT Practicum (1 unit course taken twice, each with a different topic, for a total of 2 units)
ENGR 305 (3) Appropriate Technology
ENGR 306 (3) Technology and the Environment
PSCI 364 (4) Technology Development
PSCI 373 (4) Politics of Sustainability
SOC 320 (4) Environmental Sociology