

Biological Engineering
Course Selections 2008-2009
October 27, 2008

Statistics Courses

Stat 4710 Introduction to Mathematical Statistics
Stat 2530 Statistical Methods in Natural Resources
IMSE 2110 Probability & Statistics for Engineers
BE/ChE 4270 SQC & DOE for Engineers

Biological and Related Science Courses

Bio 2200 Genetics
Bio 2300 Cell Biology
Bio 3700 Animal Physiology
Bio 4990 Histology
Bio 4976 Molecular Biology
An Sci 3254 Physiology of Domestic Animals
MPP 3202 Elements of Physiology (Human) MPP = medical pharmacology & physiology
DMU 4200 Principles of Diagnostic Medical Ultrasound
Nucmed Nuclear Medicine Instrumentation
Physics 4110 Light and Modern Optics
Physics 4310 Physics in Cell and Developmental Biology
Soil Sci 2100 Introduction to Soils
Soil Sci 2106 Soil Science Laboratory
Plt Sci 2110 Plant Growth and Culture
Plt Sci 2120 Plant Science Lab
Plt Sci 3215 Genetics of Agricultural Plants and Animals
Plt Sci 3235 Plant Environments
Plt Sci 4313 Soil Fertility and Plant Nutrition
Plt Sci 4314 Soil Fertility and Plant Nutrition (lab)
Plt Sci 4315 Crop Physiology
Plt Sci 4320 Plant Physiology
Soils 3290 Soils and the Environment
Soils 4312 Soil Microbiology
Soils 4318 Environmental Soil Chemistry
FSN 2172 Intro to Food Microbiology
FSN 4310 Food Chemistry
FSN 4370 Food Microbiology

Courses that do not count toward an engineering degree

Math numbered lower than Math 1500 Calculus I
Chemistry numbered lower than Chem 1320 General Chemistry II
Bio Sc 3100 Community Biology
Intdsc 1001 FIG Proseminars

Writing Intensive Courses

All students must complete two Writing Intensive (WI) courses. At least one WI course must be at a 3000 or higher level in your major area of study.

BE 3170 Biomaterials
BE 4980 Biological Engineering Design

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Social and Behavioral Science Courses

Anthropology, Black Studies, Economics, Finance, Geography, History, Peace Studies, Political Science, Psychology, Religious Studies, Sociology, Women's and Gender Studies.

Missouri Constitution (American History or American Government) requirement

History 1100 Survey of American History to 1865
History 1200 Survey of American History Since 1865
History 1400 American History (no longer offered, but okay for AP credit)
History 2210 Twentieth Century America
History 2440 History of Missouri
History 4000 Age of Jefferson
History 4220 U.S. Society Between the Wars 1918-1945
History 4230 Our Times: United States Since 1945
Poli Sci 1100 American Government
Poli Sci 2100 State Government

Humanistic Studies and Fine Arts Courses

Art History, Black Studies, Classical Humanities, Communications, English Literature, Music Appreciation, Philosophy, Religious Studies, Theatre, Women and Gender Studies.

Foreign Language can meet the requirement if three courses are taken (12 or more cr hr).

Suggested Courses:

Comm 1200 Speech Communications
Phil 1150 Introduction to Bioethics
Phil 2400 Ethics and the Professions
Phil 4510 Medical Ethics

Engineering Courses

Thermodynamics Courses

Engr 2300 Engineering Thermodynamics
ChE 3261 Chem Engr Thermodynamics I

Fluid Mechanics Courses

CvE 3700 Fluid Mechanics
MAE 3400 Fluid Mechanics
BE 3070 Biological Fluid Mechanics

Computing and Applications Courses

BE 2080 Programming for Engineers (preferred)

If transferring from another major or extenuating circumstances:

CECS 1040 Introduction to Problem Solving and Programming
CECS 1050 Algorithm Design and Programming I
MAE 2100 Computer Programming

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