GENERAL SCIENCE PROGRAM PLANNER
Effective for Students Entering Fall 2008

MAJOR SEQUENCE REQUIREMENTS

____BIO 111 General Biology I (4)
____BIO 112 General Biology II (4)
____CHEM 113 General Chemistry I (4)
____CHEM 114 General Chemistry II (4)
____PHYS 111 General Physics I (4)
____PHYS 112 General Physics II (4)
One of the following groups:
1.____MATH 125, Calculus (4)
____MATH 128, Introduction to Statistics Data Analysis and Applications to Life Science (4)
OR
2.____MATH 129, Analytic Geometry and Calculus I (4)
____MATH 130, Analytic Geometry and Calculus II (4)
The Sophomore/Junior Diagnostic Project and Senior Integrated Assessment in the area of chosen minor concentration, or in an alternative area, approved by the Chair of the Department of the area of minor concentration and by the Program Director.

Select one of the following minor concentrations.
1) Biology
Minimum of four (4) Biology electives approved by the departmental advisor
____BIOL 370 Biology Seminar (2) S/JDP
____BIOL 490 Biological Research (4) SIA
Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math.

2) Chemistry
____CHEM 241 Organic Chemistry I (4)
____CHEM 242 Organic Chemistry II (4)
____CHEM 243 Analytical Chemistry (4)
____CHEM 493, 494 Senior Colloquium (1,1) SIA
One Chemistry elective, excluding Chem 197 and Chem 351
Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math.

3) Mathematics
____MATH 127 Logic and Axiomatics (3)
____MATH 128 Introduction to Statistics and Data Analysis (4)
____MATH 129 Analytic Geometry and Calculus I (4)
____MATH 130 Analytic Geometry and Calculus II (4)
____MATH 250 Linear Algebra (4) SIA
____MATH 490 Junior Seminar (1) S/JDP
Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math.

4. Neuroscience
____CORE 154 Psychological Foundations (3)
____NEUR 211 Neuroscience I (3)
____NEUR 212 Neuroscience II (3) S/JDP
____NEUR 310 Neuroscience methods (3) SIA
____NEUR 480 Senior Seminar (3) SIA
Two of the following:
____NEUR/PSYC 342 Drugs and Behavior (3)
____NEUR/PSYC 346 Psychopharmacology (3)
____NEUR/PSYC 348 Sensation and Perception (3)
____NEUR/PSYC 349 Animal Behavior (4)
____NEUR 390 Topical Seminar in Neuroscience

Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math.

5) Environmental Studies
____ENST 201 Environmental Studies I (4)
____ENST 202 Environmental Studies II (4)
One of the following:
____ENST 490 Independent Study in Environmental Issues (3)
____ENST 499 Environmental Internship (3)
Three of the following:
____ CORE 265 Christian Environmental Ethics (3)
____ ENST 200 Earth and Space Science (3)
____ ECON 491 Economics of Women, Poverty, and the Environment (3)
____ HCA 211 Principles of Epidemiology (3)
____ ENST 452 Environmental Policy (3)
____ ENST 401 Special Environmental Topics A-F (3or4) See Environmental Program section of college catalog.

Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math

6) Molecular Biology
____BIOL 450 DNA Science (4)
____BIOL 451 RNA Science (4)
____BIOL 452 Eukaryotic Molecular Biology (4)
Two of the following:
____BIOL 326 Immunology (4)
____BIOL 330 Evolutionary Analysis and Bioinformatics (3)
____BIOL 336 Cell Biology (4)
____BIOL 448 Microbiology (4)
Elective courses in Science and Math to accumulate a minimum of 60 credits in Science and Math.

7) Physics
____PHYS 231 Modern Physics (4)
Three PHYS elective courses numbered 233 or higher (6-8)
One of the following mathematics sequences:
____MATH 129 Analytic Geometry and Calculus I (4)
____MATH 130 Analytic Geometry and Calculus II (4)
____MATH 231 Analytic Geometry and Calculus III (4)
OR
____MATH 125 Calculus (4)
____MATH 237 Mathematics for the Physical Sciences I (3)
____MATH 238 Mathematics for the Physical Sciences II (3)

**** Some courses required for certain minor programs will have prerequisites that must be fulfilled.***