PROCEDURAL SEQUENCE FOR ACADEMIC SENATE APPROVAL OF PROPOSALS

1. Submit all proposals to the Office of Academic Affairs.
2. The Senate President will log items and forward them to the appropriate Senate subcommittees.
3. The Senate subcommittee will send the proposal to the Senate.
4. Senate proposals will be considered by the Full Faculty.
5. If approved, the proposal will then be forwarded to the Provost/Senior Vice Chancellor.

Proposals that require action to approve/disapprove/table or remand will be sent back to the Senate according to the monthly meeting schedule.

TITLE: A proposal to revise the B. S. in Biology Degree Program.

SUBCOMMITTEE: Curriculum **PROPOSAL #**: 00-32

PROPOSAL:

This is a proposal for a program revision as mandated by recent Board of Regents action. A key principal of this revision is adoption of a common core of courses for both a non-teaching Biology degree and the General Science Education degree. That core consists of the following courses:

BIOL 140 Cell Biology
BIOL 141 Cell Biology Lab
BIOL 221 Botany I
BIOL 222 Botany I Laboratory
BIOL 348 Zoology
BIOL 350 Zoology Laboratory
CHEM 121 General Inorganic Chemistry I
CHEM 122 General Inorganic Chemistry II
CHEM 123 General Inorganic Chemistry I Laboratory
CHEM 124 General Inorganic Chemistry II Laboratory
PHYS 231 Fundamentals of Physics I
PHYS 232 Fundamentals of Physics II
PHYS 234 Fundamentals of Physics I Laboratory
PHYS 235 Fundamentals of Physics II Laboratory

Action Signatures:

Roger Barker 12-1-2000 — Submitter — Date

Feb 9, 2001 — College Chair/Dean — Date

Thomas M. Welch C.C. — Committee Chair — Approve ✓ Disapprove ____ Date 03/06/01

Terence E. Munson — Committee Chair Acad Senate — Approve ✓ Disapprove ____ Date 3-20-01

Terence E. Munson — Faculty Senate President — Approve ✓ Disapprove ____ Date 3-27-01

Roger Barker — Provost/Senior Vice Chancellor for Academic Affairs — Approve ✓ Disapprove ____ Date 4/11/01

Revised: 11/15/99

[signature] — Chancellor — approve ✓ Disapprove — Date 4/13/01

Program Revision Form

NEW_____ DROPPED_____ MAJOR REVISION X INFORMATION ONLY_____

Department Arts + Sciences Program Area B.S. in Biology Date 11-29-00

Please provide in the space below a "before and after" picture of the program with the changes in the program noted. Attached appropriate Course Revision Forms.

Current

Fundamental Skill Requirements 15 – 16 credits

General Education Requirements 24 credits (distribution requirements)

Required Courses:

BIOL 140 Cell Biology	4
BIOL 141 Cell Biology Lab	1
BIOL 217 Microbiology	4
BIOL 221 Botany I	3
BIOL 222 Botany I Lab	2
BIOL 322 Botany II	4
BIOL 348 Zoology	3
BIOL 350 Zoology Lab	2
BIOL 406 Molecular Biology Techniques	3
BIOL 407 Freshwater Biology	3
BIOL 455 Phycology	3
BIOL 460 Advanced Microbiology	3
BIOL 468 Molecular Biology & Genetics	4
CHEM 121 General Inorganic Chem I	3
CHEM 123 General Inorganic Chem I Lab	2
CHEM 122 General Inorganic Chem II	3
CHEM 124 General Inorganic Chem II Lab	2
CHEM 330 Biochemistry I	3
CHEM 331 Biochemistry II	3
CHEM 341 Organic Chemistry I	3
CHEM 343 Organic Cehmistry I Lab	2
MATH 116 Statistics	3
MATH 125 Trigonometry	2
NSCI 201 Essence of Science	3
NSCI 450 Undergraduate Research I	3
NSCI 451 Undergraduate Research II	3

Program Selectives (18 credits)

BIOL 241 Anatomy and Physiology I	4
BIOL 242 Anatomy and Physiology II	4
BIOL 314 General Ecology	3
BIOL 324 Entomology	3
BIOL 334 Ornithology	3
FOSL 210 Intro to Paleontology	3
TSCI 320 Environmental Analytical Techn	2

Suggested Course if grad school is contemplated:

MATH 220 Calculus & Analytical Geo. I	5
MATH 221 Calculus & Analytical Geo. II	5
PHYS 231 Fundamentals of Physics I	4
PHYS 232 Fundamentals of Physics II	4
CHEM 342 Organic Chemistry II	3
CHEM 344 Organic Chemistry II Lab	2

Proposed

Fundamental Skill Requirements 15 credits

General Education Requirements 18 credits (distribution requirements)

Common Science Core (35 credits):

BIOL 140 Cell Biology	4
BIOL 141 Cell Biology Lab	1
BIOL 221 Botany I	3
BIOL 222 Botany I Lab	2
BIOL 348 Zoology	3
BIOL 350 Zoology Lab	2
CHEM 121 General Inorganic Chem I	3
CHEM 122 General Inorganic Chem II	3
CHEM 123 General Inorganic Chem I Lab	2
CHEM 124 General Inorganic Chem II Lab	2
PHYS 231 Fundamentals of Physics I	3
PHYS 232 Fundamentals of Physics II	3
PHYS 234 Fundamentals of Physics I Lab	2
PHYS 235 Fundamentals of Physics II Lab	2

Required Program Course (22 credits)

BIOL 314 General Ecology	4
BIOL 468 Molecular Biology & Genetics	4
CHEM 341 Organic Chemistry I	3
CHEM 342 Organic Chemistry I Lab	2
MATH 116 Statistics	3
NSCI 201 Essence of Science	3
NSCI 450 Undergraduate Research I	3

Program Selectives (13 credits) 12

BIOL 322 Botany II	4
BIOL 324 Entomology	3
BIOL 334 Ornithology	3
BIOL 363 Lentic Ecology	3
BIOL 364 Stream Ecology	3
BIOL 455 Phycology	3
[illegible]	3
[illegible]	3
[illegible]	3
[illegible]	2
ESCI 310 Intro to Paleontology	3
[illegible]	3

Electives (7 credits)

Total Minimum Credits Required for Degree = 123 Total Minimum Credits Required for Degree = 120

New instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

There are no new instruction resources needed for the proposed program – all the courses are already being taught or have at some time been taught.