College of Liberal Arts: Biology, Society, and Environment Major (B.A.) Program Planning Form

Name (First & Last): ___________________________________________ ID: ______________________
CLA Advising Community (HNS, SocSci, etc): ___________________________ CLA Advisor: __________

2nd Major or Minor(s): ___________________________________________ Email: ______________________

Area(s) of Interest:
Career, Graduate School, or Professional School Goal(s):

□ BSE Major Declared (Term/YR): _____/_____
□ BSE Writing Intensive course completed.  **See “Guide to BSE major” for full list of course options & major requirements. 68 credits and C- minimum in all major courses required. All course exceptions require approval of BSE Advisor or BSE Director.

1. BSE CORE: Take 3 courses total (8 cr min). Take BSE 3001, plus two additional courses from at least two different sub-requirement areas: Ethics, Science in Society, and/or Scientific Thought & Inquiry.
   □ BSE 3001 (2cr) Intro to BSE (required) □

2. GENERAL BIOLOGY LAB CORE: Take a minimum of 2 Biology courses with labs (7 cr min). Take Biol 1009, plus at least one additional biology course (lab component required).
   □ BIOL 1009 (4) General Biology w/ Lab □
   □ Additional Lab (if separate course)

3. SUPPORTING SCIENCES CORE REQUIREMENTS: Take all 6 courses.
   □ MATH 1271/1571H/1281 (4) Calculus I □ PHYS 1201W/1301W/1401V (5) General Physics I
   □ CHEM 1061 + 1065 (3+1) Principles of Chemistry I □ CHEM 1062 + 1066 (3+1) Principles of Chemistry II
   □ CHEM 2301 (3) Organic Chemistry I □ BIOC 3021 (3) Biochemistry

4. BIOLOGY CONCENTRATION: Take 4 upper-division courses total (12 cr min).
   a) Select 2 Biology Concentration Core courses (6-7 cr). Choose from Ecology, Genetics, or Cell Biology options.
      □
   b) Select 2 Biology Concentration Elective courses (6 cr min).
      □

5. BSE THEME ELECTIVES: Take 5 upper-division BSE Theme Elective courses (15 cr min).
   □
   □
   □
   □

   □ Note: 2 credit courses = ½ requirement course

6. SENIOR PROJECT REQUIREMENT: Register for a 2-4 credit course in consultation with BSE Advisor. Contact BSE Advisor with Senior Project plan at least one semester prior to beginning senior project.
   □ Senior Project Course Code: ___________________________ # credits: ________ Term/YR of SP Registration: _________
   □ CLA or CBS Faculty Supervisor: □ SFC (CLA) or DRC (CBS) Approved
   □ Other UofM Supervisor(s) (if applicable): □ CAR Form Approved (if required)
   □ Supervisor’s Dept./College/School (UofM): □ Senior Project Abstract Approved

□ Final Program approved pending completion of all work in progress. Advisor’s initials & date required:
Course Option Guide for BSE Program Planning

For preliminary planning only! See current “Guide to BSE Major” and semester-specific course lists for a more inclusive list of pre-approved course options and a comprehensive guide to major requirements. Students should pay careful attention to pre-requisite and other requirements when planning their program.

Section 1. BSE Core: Take 3 courses total (8 cr min): Take BSE 3001, plus select 2 additional courses from at least two different sub-requrement areas. No substitutions allowed. A class cannot count for both BSE Core and BSE Theme.

Ethics:
- BTHX 5325 – [3 cr] Biomedical Ethics
- ESPM 3011W – [3 cr] Ethics in Natural Resources (WI)
- HSci 3410 – [3 cr] Ethics in Science & Technology (HIS, CIV)
- Phil 3301 – [4 cr] Environmental Ethics (ENV)
- Phil 3302W – [4 cr] Moral Problems in Contemp Soc (CIV, WI)
- Phil 3305 – [4 cr] – Medical Ethics

Scientific Thought and Inquiry:
- Phil 1005 – [4 cr] – Scientific Reasoning
- Phil 3601W – [4 cr] – Scientific Thought (WI)
- Phil 4607 – [3 cr] – Philosophy of Biological Sciences

Section 2.B. General Biology Lab Core: Take Biol 1009, plus at least one additional biology course (lab component required). A class cannot count for both General Biology Elective and Biology Concentration Elective.

Anth 1001 – [4 cr] Human Evolution
Phil 3061 & 3071 — [4+2cr; Special permission required] – Principles of Physiology & Laboratory

Section 4.A. Biology Concentration Core Options: Take 2 Biology Concentration Core courses (6-7 cr). Choose from Ecology, Genetics, or Cell Biology options. No substitutions allowed. A class cannot count for both Biology Concentration Core and Elective.

Ecology Options (select one):
- Biol 3407 — [3 cr] Ecology

Genetics Options (select one):
- GCD 3022 — [3 cr] Genits
- BIOL 4003 — [3 cr] Genetics (pre-req: BIOC 3021)

Cell Biology Options (select one):
- GCD 3033 — [3 cr] Cell Biology
- Biol 4004 — [3 cr] Cell Biology (Biol 4004 only recommended for students seeking scientific research careers; pre-req BIOL 4003)

Section 4.B. Biology Concentration Elective Options: Select 2 upper-division Biology Concentration Elective courses (6 cr min).

This is a partial list; additional courses may be selected in consultation with BSE advisor (e.g., Neuroscience, Soil Biology, Marine Biology).

Anat 3001 – [3 cr] Human Anatomy
Anth 3310 – [3 cr] Topics in Biological and Physical Anthropology
Biol 3409 — [3 cr] Evolution
Chem 2311 — [4 cr] Organic Chemistry Lab

Section 5. Sample BSE Theme Electives: Take 5 upper-division BSE Theme Elective courses (15 cr min). A class cannot count for both BSE Core and BSE Theme. This is a partial list; additional courses may be selected in consultation with BSE advisor.

Anth 3306W — [3cr] Medical Anth (GP, WI)
Geog 3379 — [3cr] Env & Dlp in the Third World (SOCS, ENV)
Geog 3389W — [4 cr] Population in Intersecting World (SOCS, GP, WI)
Geog 3411W — [3cr] Geography of Health and Health Care (WI)
Glos 3305 - [3cr] Life for Sale: Global Debates on Env, Sci, & Soc
HMed 3001W&/or HMed 3002W [3 cr] Health Care in History (HIS, WI)
HMed 3040 – [3 cr] Human Health, Disease, & the Env (HIS)
HSci 3211 — [3 cr] Biology and Culture 19/20th Century (HIS)
HSci 3331 — [3 cr] Technology and American Culture (HIS, TS)
HSci 3244 — [3 cr] History of Ecology and Environmental (HIS, ENV)

Science in Society:
- Geog 3361W – [3 cr] – Geography & Public Policy (WI)
- HSci 3035 – [3 cr] – Human Health, Disease, & the Env (HIS)
- Phil 3602 – [3 cr] – Science, Technology, & Society

Ethics in Natural Resources (WI)
- Phil 3305 – [4 cr] – Medical Ethics
- Phil 3607 – [4 cr] – Philosophy of Psychology
- Psy 3061 — [3 cr] Introduction to Biological Psychology
- Psy 3135 — [3 cr] Introduction to Individual Differences
- Psy 3604 — [3 cr] Abnormal Psych
- Psy 5137 — [3 cr] Introduction to Behavioral Genetics
- PubH 3004 — [4 cr] Basic Concepts in Personal & Community Health
- Stat 3011 – [4 cr] Introduction to Statistical Analysis (MATH)
- Urb 3751 — [3 cr ] Understanding the Urban Environment (ENV)
- Writ 3152W — [4 cr] Writing on Issues of Science and Technology (WI)