

March 2004

BIO-NOTES

SPRING 2004 REGISTRATION ISSUE

The official publication for students of the
Department of Biological Sciences, Bethel College

Bio-Notes is published from time to time during the academic year to inform biology and related majors of the activities of the department. Be sure to read each issue carefully as there are often important announcements presented here. In preparation for summer employment, you are encouraged to visit departmental bulletin boards on 1st and 2nd floors for information on summer jobs, internships, and research opportunities in the biological sciences. Participation in these professional experiences often increases the likelihood of acceptance into graduate and/or medical schools.

THE FOLLOWING MAJOR COURSES WILL BE OFFERED FALL 2004

- BIO105 Medical Terminology (Dr. Shaw, instructor permission required; 2.0 credits)
- BIO112D Intro to Molecular and Cellular Biology (Dr. Hyatt, offered fall and spring)
- BIO113D Intro to Organismic Biology (Dr. Port, offered fall and spring)
- BIO114D Intro to Biodiversity, Ecology, and Adaptation (Dr. Johnson, offered fall and spring)

UPPER LEVEL COURSES: Cell-Molecular Area

- BIO207 Microbiology (Dr. Johnston, offered spring and fall)
- BIO312 Genetics (Dr. Hyatt, every fall)
- BIO381 Biochemistry I (Dr. Tavernier, every fall)

UPPER LEVEL COURSES: Organismal Area

- BIO201 Human Anatomy (Dr. Shaw, every fall)
- BIO306* Vertebrate Histology (Dr. Johnston)
- BIO352* Structure and Development of Vertebrates (Dr. Reynhout)

UPPER LEVEL COURSES: Environmental Area

- BIO321* Aquatic Biology (Dr. Peteresen)

UPPER LEVEL COURSES: Biology Research/Seminar Courses

- BIO495 Biology Seminar (Dr. Johnston, senior status, fall only, required)
- BIO496 Biology Research (encouraged, faculty mentor required)
- ENS497 Research in Environmental Studies (Dr. Petersen, fall only, required for senior Environmental Studies majors)

***DESCRIPTIONS OF ALTERNATE YEAR COURSES**

BIO306 Vertebrate Histology (4 credits)

Microscopic structure of cells, tissues, and organs in vertebrate animals, with special emphasis on the way structural units are integrated. At all times efforts are made to correlate structure with specific physiological functions. Includes 3 lab hrs. Prerequisites: BIO112D, BIO113D.

BIO321 - Aquatic Biology (4 credits)

Biological and physical aspects of natural, fresh-water ecosystems. Fish and other aquatic animals, aquatic plants, algae, and their interrelationships with each other and the unique aqueous environment in which they live. Laboratory examines Lake Valentine and other aquatic ecosystems near campus. Includes 3 lab hrs. Prerequisites: BIO112D, BIO113D, BIO114D.

BIO352 - Structure and Development of Vertebrates (4 credits)

An integrated, systematic approach to embryology and comparative anatomy. Microscopic examination of representative vertebrate embryos and dissection of representative vertebrate types. Includes 3 lab hrs. Prerequisites: Two courses in biology, including BIO113D.

“SCIENCE, TECHNOLOGY, AND SOCIETY” (K CATEGORY) COURSES TAUGHT THIS FALL BY BIOLOGY FACULTY

- ENS305K Transforming Technology (Dr. Kistler)
- GES322K Cancer: Science and Society (Dr. Dillner, Tues. 6-9 pm)
- GES328K Nutrition: The Total Diet (Dr. DeGolier)

REGULAR SUMMER OFFERINGS**BIO409 - Advanced Human Gross Anatomy (Dr. Shaw)**

For the undergraduate pre-health professions student. A regional approach to the study of anatomy through the supervised and directed student dissection of human cadavers. Identification of detailed structures and understanding their significance to the body. Prerequisite: One course in biology involving some dissection.

AuSable Institute for Environmental Studies

Several courses in the environmental area are available during the interim and summer terms through the AuSable Institute for Environmental Studies. Any summer biology course may be used to fulfill the environmental requirement in the biology major. Interim biology courses at AuSable may be used in the biology major but may not be the only environmental area course. Summer term courses offered on a regular basis include Field Botany, Natural Resources Practicum, Animal Ecology, and Water Resources. See the AuSable advisor in the Department of Biology for additional course offerings and further details.

DATES TO REMEMBER

1. Sat, April 24, Tri-Beta Regional Conference at Minnesota Academy of Science, St. Johns, Collegeville, MN
2. Wed, April 28, Assessment Day (no classes, MFAT for seniors)
3. Sat, May 1, Biology/ENS Senior Research Symposium (all day)
4. Mon, May 10 Spring Biology Picnic
5. Tues, May 18, Senior Night Out
6. May 5 and 6, 2005. Bethel will be hosting the Minnesota Academy of Science (including Tri-Beta Regional Conference, Winchell Symposium) this next academic year.