

HUMAN BIOLOGY

BACHELOR OF ARTS/BACHELOR OF GENERAL STUDIES

At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major. Human Biology CORE CURRICULUM and accompanying RECOMMENDED ELECTIVE COURSES are below. You must: a) Choose one course from each of five areas of CORE CURRICULUM; b) Choose additional courses from either the CORE or ELECTIVES to complete at least 24 hrs. credit. Your course choices must include two LABORATORY COURSES (or one course + 449 Lab/Field Work in Human Biology, cross-listed in several departments); c) Complete a HUMAN BIOLOGY SEMINAR (1 hr.) during your senior year.

I. General College Requirements (BA, 55 hrs.; BGS, 42 hrs.):

English (9 hrs.): ENGL 101 ____; ENGL 102 (or 105) ____; ENGL 203 (or 205, 209, 210, 211) ____

Communication/Logic (3 hrs., one of following): COMS 130, COMS 230, PHIL 148, PHIL 310 **OR** Exemption/Exam. ____

Western Civilization (6 hrs.): HWC 204 (or 114) ____ and HWC 205 (or 115) ____

Principal Course Distribution Requirements: (see *Timetable or Undergraduate Catalog and Timetable appendix for list*)

Humanities (BA 9 hrs.; BGS 6 hrs.):

(HT) _____, (HL) _____, (HR) _____

Social Science (BA 9 hrs.; BGS 6 hrs.):

(SC) _____, (SI) **PSYC 104**, (SF) _____

Non-Western Culture (one course): ____ (see *Undergraduate Catalog and Timetable appendix for list*)

Foreign Language (BA ONLY) (16-20 hrs. or proficiency):

_____, _____, _____, _____
(*Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements.*)

BGS only: Minor (18 hrs.): _____, _____, _____, _____, _____

OR Concentration (9 Jr/Sr hrs.): _____, _____, _____

II. Human Biology General Science Requirements (minimum of 42 hr.):

_____ **A. Anthropology** ANTH 304 Phys. Anthro. (4 hrs.)

_____ **B. Biology** BIOL 150/151 Molecular & Cellular Biology (4 hrs.) or approved equivalent

_____ **C. Psychology** PSYC 104 General Psychology (3 hrs.)

_____ **D. Mathematics** MATH 115 (3 hrs.) **OR**

MATH 121 (5 hrs.) Calculus I

_____ **E. Genetics** ANTH 442 Anthropol. Genetics (3 hrs.) **OR** BIOL 350 Introduction to Genetics (3 hrs.)

_____ **F. Statistics** PSYC 300 Statistics/Psychol. Res. (3 hrs.)

OR BIOL 570 Intro. to Biostatistics (3 hrs.) **OR**

MATH 365 Elem. Statistics (3 hrs.)

_____ **G. Chemistry** _____ CHEM 184 & _____ CHEM 188 Foundations of Chemistry I & II (10 hrs.)

_____ CHEM 622 Fund./Organic Chemistry (3 hrs.) **OR**

_____ CHEM 624 Organic Chemistry I (3 hrs.)

_____ CHEM 625 Organic Chemistry I Lab (2 hrs.)

(*Students who require 1 year of organic chemistry, continue with CHEM 626/627 Organic Chem. II/Lab (5 hrs.)* _____)

_____ **H. Physics** PHSX 114 & PHSX 115 Col. Physics I & II (8 hrs.) **OR** PHSX 211 & PHSX 212 Gen. Physics I & II (8 hrs.)

III. Total Core (+ Elective) Requirements: They must include at least one Core course from each of the following five clusters (**24 hrs**):

Human Biology Core Curriculum

_____ **(1) POPULATIONS/EVOLUTION**--ANTH 340 (3 hrs.) Human Variation; ANTH 341 (3 hrs.) Human Evolution; ANTH 359 (3 hrs.) Anthro. of Sex; ANTH 549 (3 hrs.) Human Origins; ANTH 652 (3 hrs.) Population Dynamics; BIOL 412 (3 hrs.) Evolutionary Biology

_____ **(2) MOLECULAR BIOLOGY/MICROBIOLOGY**--BIOL 400 (3 hrs.) Intro. Micro. (lab 402); BIOL 416 (3 hrs.) Cell Struct./Funct. (lab 426); BIOL 600 (4 hrs.) Intro.Biochem. (lab 601)

_____ **(3) SYSTEMIC PHYSIOLOGY**--ANTH 542 (4 hrs.) Intro. Human Nutrition; BIOL 644 (3 hrs.) Comparative Animal Physiol. (lab BIOL 645); BIOL 646 (4 hrs.) Mammalian Physiol. (lab, BIOL 647)

_____ **(4) DEVELOPMENTAL BIOLOGY and ANATOMY**--BIOL 417 (3 hrs.) Biology of Development; BIOL 440 (6 hrs.) Advanced Human Anatomy, lecture and lab; BIOL 510 (5 hrs.) Comparative Anatomy, lecture and lab

_____ **(5) BEHAVIORAL SCIENCE**--PSYC 318 (3 hrs.) Cog. Psychol.; PSYC 333 (3 hrs.) Child Psychol.; PSYC 350 (3 hrs.) Abnormal Psychol.; PSYC/HDFL 430 (3 hrs.) Cognitive Development

Human Biology Recommended Elective Courses.

_____ **(1) POPULATIONS/EVOLUTION**--BIOL, PSYC, SPLH, HDFL 432 [or ANTH 447] (3 hrs.) Human Behav. Genetics; ANTH 450 (3 hrs.) Diseases/Adaptation; *or additional course from Core*

_____ **(2) MOLECULAR BIOLOGY/MICROBIOLOGY**--BIOL 503 (3 hrs.) Immunology (lab 504 [2 hrs.]); BIOL 506 (3 hrs.) Pathogenic Microbiology (lab 507 [2 hrs.]); BIOL 595 (4 hrs.) Human Genetics; BIOL 688 (3 hrs.) Molecular Biology of Cancer *or additional course from Core*

_____ **(3) SYSTEMIC PHYSIOLOGY**--ANTH 342 (4 hrs.) Human Nutrition; BIOL 435 (3 hrs.) Introduction to Neurobiology; BIOL 673 (3 hrs.) Cellular Neurophysiology; BIOL 778 (3 hrs.) Respiratory Physiology; PSYC 370 (3 hrs.) Brain and Behavior; PSYC 380 (3 hrs.) Brain and Pathology; SPLH 764 Somatosensory Neurophysiology, *or additional course from Core*

_____ **(4) DEVELOPMENTAL BIOLOGY and ANATOMY**--ANTH 648 (4 hrs.) Human Osteology (lab incl.); ANTH 762 (3 hrs.) Human Growth/Dev.; BIOL 510 (5 hrs.) Comp. Anat. (lab incl.); BIOL 776 (2 hrs.) Mammalian Neuroanat. (lab incl.); SPLH 764 Neural Bases Speech/Vocalization, *or additional course from Core*

_____ **(5) BEHAVIORAL SCIENCE**--HDFL 342 (3 hrs.) Adult Dev./Aging; HDFL/PSYC 510 (3 hrs.) Infant Behav./Dev.; HDFL 721 (3 hrs.) Biol. Basis Mental Retardation; PSYC 536 (3 hrs.) Psychology of Language; PSYC 691 (3 hrs.) Psychology of Aging; SPLH 566 (3 hrs.) Language Dev.; SPLH 663 (3 hrs.) Principles of Hearing Science, *or additional course from Core*

_____, _____: **LABORATORY** courses (2 courses or one laboratory course and ANTH/BIOL/ HDFL/SPLH/PSYC 449)

Human Biology Seminar (1 hr.)

_____ BIOL 420 Human Biology (1 hr.) (to be completed during the senior year).