

REQUIREMENTS for Charles E. Schmidt College of Science
Major in BIOLOGICAL SCIENCES
BACHELOR OF ARTS (BA) DEGREE
Options in: General or Environmental Emphasis
BACHELOR OF SCIENCE (BS) DEGREE
Options in: Biology and Premedical/Pre-veterinary Studies

FRESHMAN ACADEMIC ADVISING SERVICES
FLORIDA ATLANTIC UNIVERSITY
SU 201, (561) 297 - 3064

BIOLOGICAL SCIENCES MAJOR (2008 - 2009)

INTELLECTUAL FOUNDATIONS PROGRAM (I.F.P.) REQUIREMENTS (except science), FOREIGN LANGUAGE and ELECTIVES

ENGLISH COMPOSITION (6 credits, 2 courses, **must earn a C or better**)

ENC 1101 College Writing 1 (Gordon Rule Writing) (3 credits)
ENC 1102 College Writing 2 (Gordon Rule Writing) (3 credits)

MATHEMATICS – Please see next page

SOCIAL SCIENCES (9 credits, **3 courses, from 3 departments**) ♦

ANT 2000 (D) Introduction to Anthropology (3 credits)
ANT 2410 Culture and Society (3 credits)
GEA 2000 (D) World Geography (3 credits)
ECO 2023* Microeconomic Principles (3 credits) - *Strongly recommended for Environmental Emphasis*
ECO 2013* Macroeconomic Principles (3 credits) - *Strongly recommended for Environmental Emphasis*
ECP 2002 Contemporary Economic Issues (3 credits) – *Recommended for non-business majors*
PAD 2258 Changing Environment of Society, Business & Government (3 credits)
POS 1041 The Government of the United States (3 credits)
INR 2002 Introduction to World Politics (3 credits)
PSY 1012 General Psychology (3 credits) - **REQUIRED**
SYG 1000 Introductory Sociology (3 credits)
SYG 2010 Social Problems (3 credits)

* *Sophomore standing is a prerequisite*

HUMANITIES (9 credits, 3 courses) ♦ (Choose **TWO** courses from two departments)

LIT 2010 Interpretation of Fiction (Gordon Rule Writing, C or better) (3 credits)
LIT 2030 Interpretation of Poetry (Gordon Rule Writing, C or better) (3 credits)
LIT 2040 Interpretation of Drama (Gordon Rule Writing, C or better) (3 credits)
PHI 2010 (D) Introduction to Philosophy (Gordon Rule Writing, C or better) (3 credits)
WOH 2012 (D) History of Civilization (Gordon Rule Writing, C or better) (3 credits)

and Choose **ONE** from the following five courses.

ARC 2208 Culture and Architecture (3 credits)
ARH 2000 (P/F) Art Appreciation (3 credits)
DAN 2100 Appreciation of Dance (3 credits)
FIL 2000 (D) Film Appreciation (3 credits)
MUL 2010 History and Appreciation of Music (3 credits)
THE 2000 Appreciation of Theater (3 credits)

SCIENCE See next page.

FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language) **REQUIRED FOR MAJOR**

Students with more than one year of foreign language in high school should enroll in Beginning Language and Culture 2 (FOL/FRE/GER/GRE/GRK/HBR/ITA/JPN/LAT/SPN 1121) or a higher-level course. Students can earn proficiency for a first-level course by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor.

NOTE: Native speakers of a foreign language must consult the Languages & Linguistics dept. regarding this requirement. CLEP exam credits meets this requirement, see catalog.

CLAST: Satisfy the College Level Academic Skills Test (CLAST) see the Catalog for options.

♦ **NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE GORDON RULE WRITING REQUIREMENT.**

See Freshman Academic Advising Services Office for details.

B.A. DEGREE
Environmental science or Secondary school teaching

Chemistry (16 credits required – **must earn a “C” or better**)

CHM 2045	General Chemistry I	3 credits
CHM 2045L	General Chemistry I Lab	1 credit
CHM 2046	General Chemistry II	3 credits
CHM 2046L	General Chemistry II Lab	1 credit
CHM 2210 & D	Organic Chemistry I	3 credits
CHM 2211	Organic Chemistry II	3 credits
CHM 2211L	Organic Chemistry II Lab	2 credits

Physics (3 - 4 credits – **must earn a “C-” or better**)

PSC 2121	Physical Science	3 credits
or		
PHY 2053	College Physics I	4 credits

Mathematics (Gordon Rule - must earn a C or better) (6 credits)

MUST TAKE A PLACEMENT TEST BEFORE REGISTERING FOR MATH COURSES

MAC 1105	College Algebra (<i>Recommended</i>)	3 credits
MAC 2233	Methods of Calculus*	3 credits
PSY 3234	Exp. Design & Stat. Inference*	3 credits

(PSY 3234 will not count for CLAST exemption.)

* *Required for BA Degree*

Biological Sciences (22 - 23 credits – **must earn a “C-” or better**)

BSC 1011	Biodiversity**	3 credits
BSC 1011L	Biodiversity Lab	1 credit
BSC 1010	Biological Principles**	3 credits
BSC 1010L	Biological Principles Lab	1 credit
BOT 4503	Principles of Plant Physiology	2 credits
BOT 4503L	Principles of Plant Physiology Lab	2 credits
or		
PCB 4723	Comparative Animal Physiology	3 credits
PCB 4723L	Comparative Animal Phys. Lab	1 credits
PCB 3063	Genetics	4 credits
PCB 4043	Principles of Ecology	3 credits
PCB 4023	Molecular and Cell Biology***	3 credits
or		
MCB 3020	General Microbiology	3 credits
MCB 3020L	General Microbiology Lab	1 credit

** *Three part course (lecture, lab and discussion)*

*** *BCH 3033 (Biochemistry I) is a prerequisite and can serve as an elective.*

Biology electives (12 - 13 credits upper division)

Environmental Science Emphasis (required courses):

ECO 2023	Microeconomic Principles	3 credits
ECO 2013	Macroeconomic Principles	3 credits
ECP 4302	Environmental Economics	3 credits
PHI 3640	Environmental Ethics	3 credits
PCB 3352	Issues in Human Ecology	3 credits
or		
ENV 2017	Environment and Society	3 credits

B.A. without Environmental Emphasis

31 I.F.P. (w/out science or required math)
 57 B.A. Biology Core and Required Math
 32 General Electives*
 120 Credits (45 credits at upper division)

*(16 cr. upper division)

B.A. with Environmental Emphasis

31 I.F.P. (w/out science or required math)
 57 B.A. Biology Core and Required Math
 15 Environmental Science
 17 General Electives*
 120 Credits (45 credits at upper division)

*(8 cr. upper division)

NOTE: Students are responsible for completing 45 credits of upper division coursework
 (The BA has 29 – 31 credits up upper division, therefore need 14 – 16 credits of upper division general electives)

B.S. DEGREE

(80 credits total, 38 – 43 credits of Upper Division Coursework)

TIER 1 – Required Courses (Biology Core) - 53 credits

BSC 1011	Biodiversity ¹	3 credits
BSC 1011L	Biodiversity Lab	1 credit
BSC 1010	Biological Principles ¹	3 credits
BSC 1010L	Biological Principles Lab	1 credit
PCB 4023	Molecular and Cell Biology	3 credits
PCB 3063	Genetics	4 credits
PCB 4043	Principles of Ecology	3 credits
CHM 2045	General Chemistry I ²	3 credits
CHM 2045L	General Chemistry I Lab ²	1 credit
CHM 2046	General Chemistry II ²	3 credits
CHM 2046L	General Chemistry II Lab ²	1 credit
CHM 2210 & D	Organic Chemistry I ²	3 credits
CHM 2211	Organic Chemistry II ²	3 credits
CHM 2211L	Organic Chemistry II Lab ²	2 credits
BCH 3033	Biochemistry I	3 credits
PHY 2053	College Physics I ³	4 credits
PHY 2048L	General Physics I Lab	1 credit
or		
PHY 2048	General Physics I ⁴	4 credits
PHY 2048L	General Physics I Lab	1 credit
PHY 2054	College Physics II	4 credits
PHY 2049L	General Physics II Lab	1 credit
or		
PHY 2049	General Physics II	4 credits
PHY 2049L	General Physics II Lab	1 credit

Mathematics (Gordon Rule - must earn a C or better - 6 credits)

MUST TAKE A PLACEMENT TEST BEFORE REGISTERING FOR MATH COURSES

MAC 1105	College Algebra (<i>Recommended</i>)	3 credits
MAC 2233	Methods of Calculus (or higher)*	3 credits
PSY 3234	Exp. Design & Stat. Inference*	3 credits

* *Required for Major*

¹*BSC 1011 & BSC 1010 are three part courses – Lecture, Lab and Discussion.*

²*Chemistry courses require a “C” or better*

³*Prerequisite of a “C” in one these math courses: MAC 1114 / 1147 / 2233 / 2253 / 2241 / 2311*

⁴*Prerequisite of a “C” in MAC 2311 or MAC 2253*

NOTE: A maximum of 5 credits in Directed Independent Study may be applied for degree credit
Students are responsible for completing 45 credits of upper division coursework

NOTE: See catalog for specific requirements, course descriptions, and additional information. The requirements for some Intellectual Foundations Program (I.F.P.) courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

The College of Science has the following requirements: (1) A student must maintain a **C- average** or better in all biology AND cognate courses taken as part of the requirements for an undergraduate degree in Biological Sciences. However, students must maintain a **“C”** in chemistry courses; (2) Any course work in the major field transferred from another institution must be approved by the major dept; (3) No major course may be taken pass/fail; (4) The maximum amount of credit which may be earned through co-op is 10 credits, some departments allow some of these credits to substitute for major courses, check with department for specifics.

All course selections should be made in consultation with an advisor.

STUDENTS ASSUME ALL RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS. (05/08)

Students must select a total of 27 credits from Tier 2 and Tier 3

(Please see department for a list of courses)

TIER 2

A minimum of 12 credits is required from this Tier level.

TIER 3

Optional Electives (or other courses approved by your academic advisor).

B.S. Biology

31 I.F.P. (w/out science or required math)

80 B.S. Biology and Required Math

9 General Electives*

120 Credits (45 credits at upper division)

*(2 cr. upper division)