



BACHELOR OF SCIENCE DEGREE CHECK SHEET
MAJOR IN BIOLOGY
2011-2012

Last	First	Middle or Maiden	ID#	Date
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I. GENERAL EDUCATION (50 hours)

- ENGL 1113
- ENGL 1213
- COMM 1113
- MATH 1513 or higher
- BIOL 1364
- CHEM 1364 and CHEM 1361
- HIST 1483 or 1493
- PS 1113
- Humanities (6 hours)
- _____
- _____
- FAMS 1123, PSY 1113 or SOCI 1113
- AGRC 1334, ECON 2013,
- GEOG 3023 or CRM 3603
- Physical Education activities (4 hours) or
- Military Science (8 hours)
- _____
- _____
- _____

ELECTIVES to total 50 semester hours

(No more than 6 hours in any one dept)

- Computer Science Elective (CS1313 or higher)
- Math Elective (MATH 2215 or MATH 2713 or STAT 3013)***
- _____
- _____

IV. MINOR (CHEMISTRY) ** (18 hours)

- CHEM 1364 and 1361*
- CHEM 1474 and 1471
- CHEM 3314 Organic Chemistry I
- CHEM 3324 Organic Chemistry II
- _____
- _____

II. MAJOR (46 hours)

A. Required Core Courses (26 hours)

- BIOL 1364 Principles of Biology I*
- BIOL 1474 Principles of Biology II
- BIOL 2124 Microbiology
- BIOL 2144 Botany
- BIOL 2154 Zoology
- BIOL 2881 Biology Seminar
- BIOL 3014 Principles of Genetics
- BIOL 4901 Biology Capstone Course
- (BIOL 1004 will not count toward major)

B. Biology Concentration (20 hours)

Select from one of the concentration areas on the reverse side: Organismal Biology or Cell/Molecular Biology

III. ADDITIONAL REQUIREMENTS

- MATH 1613 Plane Trigonometry or higher ***
- PHYS 1115 Physics I **OR**
- PHYS 2015 Physics I
- PHYS 1215 Physics II **OR**
- PHYS 2025 Physics II
- CHEM 4403 Biochemistry I****
- CHEM 4413 Biochemistry II****

ELECTIVES (to total 128 credit hours)

* Included in General Education

** If minor is not Chemistry, more than 128 hours will be required to graduate.

***MATH 1813 will not satisfy these requirements

**** Cell and Molecular Emphasis Only

V. GRADUATION REQUIREMENTS

- Department Requirements
- Liberal Arts & Sciences (55 hours)
- Minimum 128 credit hours completed
- Minimum 40 credit hours upper division
- Retention GPA 2.0 (C average)
- Cameron GPA 2.0 (C average)
- Complete Graduation Application at Registrar's Office

BIOLOGY

2011-2012

Concentration (20 Hours)

Organismal Biology

REQUIRED COURSES (8 hours)

- ___ BIOL 3044 Evolution
- ___ BIOL 3064 Ecology

ELECTIVES (12 hours)

Choose 3 of the following courses to include a minimum of one course from each category (A & B) to total 12 hours:

Category A:

- ___ BIOL 3024 Entomology
- ___ BIOL 3054 Plant Taxonomy
- ___ BIOL 3074 Natural History of Vertebrates
- ___ BIOL 3084 Ornithology
- ___ BIOL 3114 Mammalogy
- ___ BIOL 3134 Invertebrate Zoology
- ___ BIOL 4014 Herpetology
- ___ BIOL 4024 Ichthyology
- ___ BIOL 4054 Vascular Plant Morphology
- ___ BIOL 4064 Advanced Ecology
- ___ BIOL 4084 Comparative Ethology
- ___ BIOL 4094 Limnology
- ___ BIOL 4154 Biometry
- ___ BIOL 4121-4 (Special Studies (can be taken for a maximum of 4 hours upper level credit)

Category B:

- ___ BIOL 2034 Human Anatomy
- ___ BIOL 3093 Immunology
- ___ BIOL 3104 Comparative Vertebrate Anatomy
- ___ BIOL 3174 Molecular Cell Biology
- ___ BIOL 4004 Physiology
- ___ BIOL 4114 Advanced Microbiology
- ___ BIOL 4163 Principles of Plant Physiology

Cell and Molecular Biology

REQUIRED COURSES (8 hours)

- ___ BIOL 3174 Molecular Cell Biology
- ___ BIOL 4174 Cell Structure and Function

ELECTIVES (12 hours)

Choose 2 courses from category A and one course from category B to total 12 hours:

Category A: (Choose 2)

- ___ BIOL 2134 Human Physiology **OR**
- ___ BIOL 4004 Physiology
- ___ BIOL 3093 Immunology
- ___ BIOL 3124 Histology
- ___ BIOL 4114 Advanced Microbiology

Category B: (Choose 1)

- ___ BIOL 2034 Human Anatomy **OR**
- ___ BIOL 3104 Comparative Vertebrate Anatomy
- ___ BIOL 3034 Developmental Biology
- ___ BIOL 3044 Evolution
- ___ BIOL 4121-4 Special Studies (can be taken for a maximum of 4 hours upper level credit)
- ___ BIOL 4154 Biometry