Foundations of Written Communication
(6 credit hours required – Writing Across the Curriculum - WAC)
Grade of “C” or higher is required in each course

ENC 1101 College Writing I (Required)
ENC 1102 College Writing II

The following courses below may be substituted for ENC 1102:

- ENC 1930 University Honors Seminar in Writing (Permit Only)
- ENC 1939 Special Topic: College Writing
- ENC 2452 Honors Composition for Science

Anthropology Department

ANT 1471 Cultural Difference in a Globalized Society

History Department

HIS 2050 Writing History

Note: Students must take four Writing-Across-the-Curriculum (WAC) courses, two of which must be taken from Foundations of Written Communication.

Foundations of Mathematics & Quantitative Reasoning
(6 credit hours required – Grade of “C” or higher is required)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

Pretest is required before taking your first math course.

Group A

- MAC 1105 College Algebra
- MAC 2311 Calculus with Analytic Geometry 1 (4 credits)

or any mathematics course for which one of the above courses is the direct prerequisite

Group B

- MAC 1140 Precalculus Algebra
- MAC 1114 Trigonometry
- MAC 1147 Precalculus Algebra & Trigonometry (5 credits)
- MAC 2233 Methods of Calculus (Required or higher math)
- MAC 2312 Calculus with Analytic Geometry 2 (4 credits)

Foundations of Science & the Natural World
(6 credit hours required – One of the courses must have a lab)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

Group A

- BSC 1010 & L & D Biological Principles (4 cr. Incl. Lab & Dis)
- CHM 2045 & L General Chemistry 1 (4 cr. Incl. Lab)
- PHY 2048 & L General Physics 1 (5 credits incl. Lab & Dis)

Group B

- BSC 1011 & L & D Biodiversity (4 cr. incl Lab & Dis)
- BSC 1011 & L & D Biodiversity (4 cr. incl Lab & Dis)
- PHY 2053 College Physics 1 (5 credits incl. Lab)

Foundations of Society & Human Behavior
(6 credit hours required)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

Group A

- AMH 2020 & D United States History Since 1877 (P/F)
- ANT 2000 & D Introduction to Anthropology
- ECO 2013 Macroeconomic Principles §
- POS 2041 Government of the United States
- PSY 1012 Introduction to Psychology - see note below
- SYG 1000 Sociological Perspective (recommended for pre-health-related majors)

Group B

- AMH 2010 & D United States History to 1877 (P/F)
- ECO 2023 Microeconomic Principles §
- ECP 2002 Contemporary Economic Issues
- EEX 2091 Disability and Society
- EVR 2017 Environment and Society

Note: A required course to take PSY 3234 per the University catalog.

(D) = Discussion, (L) = Lab
Courses indicating a (D) or (L) are linked with a lecture, lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You must attend the lecture, lab, and/or discussion.

Languages, Linguistics, & Comparative Literature Department

LIN 2001 Introduction to Language (online course)

Public Administration Department

PAD 2258 Changing Environment of Soc., Bus., & Gov’t

Sociology Department

SYG 1010 Social Problems

Urban & Regional Planning Department

URP 2051 Designing the City

Note: A required course to take PSY 3234 per the University catalog.

Biology Department

Bachelor of Arts (BA) or Bachelor of Science (BS)

Charles E. Schmidt College of Science

Foundations of Written Communication
(6 credit hours required – Writing Across the Curriculum - WAC)
Grade of “C” or higher is required in each course

ENC 1101 College Writing I (Required)
ENC 1102 College Writing II

The following courses below may be substituted for ENC 1102:

- ENC 1930 University Honors Seminar in Writing (Permit Only)
- ENC 1939 Special Topic: College Writing
- ENC 2452 Honors Composition for Science

Anthropology Department

ANT 1471 Cultural Difference in a Globalized Society

History Department

HIS 2050 Writing History

Note: Students must take four Writing-Across-the-Curriculum (WAC) courses, two of which must be taken from Foundations of Written Communication.

Foundations of Mathematics & Quantitative Reasoning
(6 credit hours required – Grade of “C” or higher is required)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

Pretest is required before taking your first math course.

Group A

- MAC 1105 College Algebra
- MAC 2311 Calculus with Analytic Geometry 1 (4 credits)

or any mathematics course for which one of the above courses is the direct prerequisite

Group B

- MAC 1140 Precalculus Algebra
- MAC 1114 Trigonometry
- MAC 1147 Precalculus Algebra & Trigonometry (5 credits)
- MAC 2233 Methods of Calculus (Required or higher math)
- MAC 2312 Calculus with Analytic Geometry 2 (4 credits)

Foundations of Science & the Natural World
(6 credit hours required – One of the courses must have a lab)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

Group A

- BSC 1010 & L & D Biological Principles (4 cr. Incl. Lab & Dis)
- CHM 2045 & L General Chemistry 1 (4 cr. Incl. Lab)
- PHY 2048 & L General Physics 1 (5 credits incl. Lab & Dis)

Group B

- BSC 1011 & L & D Biodiversity (4 cr. incl Lab & Dis)
- BSC 1011 & L & D Biodiversity (4 cr. incl Lab & Dis)
- PHY 2053 College Physics 1 (5 credits incl. Lab)

(D) = Discussion, (L) = Lab
Courses indicating a (D) or (L) are linked with a lecture, lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You must attend the lecture, lab, and/or discussion.

Languages, Linguistics, & Comparative Literature Department

LIN 2001 Introduction to Language (online course)

Public Administration Department

PAD 2258 Changing Environment of Soc., Bus., & Gov’t

Sociology Department

SYG 1010 Social Problems

Urban & Regional Planning Department

URP 2051 Designing the City

Note: A required course to take PSY 3234 per the University catalog.
**STUDENTS ASSUME RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS**

*Course selections should be made in consultation with an academic advisor.*

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**FOUNDATIONS IN GLOBAL CITIZENSHIP**

*(6 credit hours required)*

Student must choose two (2) courses from among the following:

**Anthropology Department**

- **ANT 2410** .........Culture and Society

**Curriculum, Culture & Education Department**

- **EDF 2854** .........Educated Citizen in Global Context

**Geosciences Department**

- **GEO 2607** .........World Geography

**Political Science Department**

- **INR 2002** .........Introduction to World Politics

**Languages, Linguistics, & Comparative Literature Department**

- **LAS 2000** .........Intro to Caribbean & Latin American Studies
- **LIN 2607** .........Global Perspectives on Language *(online course)*

**Sociology Department**

- **SYP 2450** .........Global Society

**Social Work Department**

- **SOW 1005** .........Global Perspectives of Social Services

**History Department**

- **WOH 2012** & D .........History of Civilization 1 *(WAC)++*
- **WOH 2022** .........History of Civilization 2

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**FOUNDATIONS OF HUMANITIES**

*(6 credit hours required)*

Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

**Group A**

**Visual Art & Art History Department**

- **ARH 2000** .........Art Appreciation *(P/F)*

**Music Department**

- **MUL 2010** .........Music Appreciation

**Philosophy Department**

- **PHI 2010** & D .........Introduction to Philosophy *(WAC)++*

**Theatre & Dance Department**

- **THE 2000** .........Theatre Appreciation

**Group B**

**Architecture Department**

- **ARC 2208** .........Culture & Architecture

**Theatre & Dance Department**

- **DAN 2100** .........Appreciation of Dance

**School of Communication & Multimedia Studies**

- **MUL 2010** .........Film Appreciation

**Languages, Linguistics, & Comparative Literature Department**

- **LIT 2100** .........Introduction to World Literature

**English Department**

- **LIT 2010** .........Interpretation of Fiction *(WAC)++*
- **LIT 2030** .........Interpretation of Poetry *(WAC)++*
- **LIT 2040** .........Interpretation of Drama *(WAC)++*
- **LIT 2070** .........Interpretation of Creative Nonfiction *(WAC)++*

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**Legend**

- **+** - ENC 1101 is a prerequisite.
- **++** - Two Foundations of Written Communications classes are required before taking this course.
- **§** - Sophomore standing (30 credits earned) is a requirement to take this course.
- ***** - Nursing majors are required to take this course in their first semester.
- **** - MAC 2311 is a prerequisite for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- (****) - MAC 1105 and MAC 1114 are prerequisites for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- **‡** - Co-requisite of College Algebra (MAC 1105) or a prerequisite of Introductory Chemistry (CHM 1025).

**WAC** - *(WAC) Writing across the curriculum course.*

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**§ Writing Across the Curriculum (WAC)**

Students must attain grades of “C” or higher. 12 credits of writing (WAC) and 6 credits of mathematics are required.

**Please note:**

Students must take four (4) WAC courses. Two (2) courses are to be taken from Foundations of Written Communication. We strongly recommend the two additional WAC courses come from these courses: PHI 2010, WOH 2012, LIT 2010, LIT 2030, LIT 2040 and LIT 2070. See advisor for additional details.

**(D) = Discussion, (L) = Lab**

Courses indicating a (D) or (L) are linked with a lecture, a lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You **must** attend the lecture, lab, and/or discussion.

**Elective Credits**

The number of elective credits allowed varies by major. Please consult with an academic advisor to determine the number of elective credits required for your major. *Certain majors do not allow any electives.*

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**P/F**

Certain designated undergraduate courses may be taken for a letter grade of pass (P) or fail (F). Students must indicate the grade option when registering; otherwise, a letter grade will be given. The maximum credit available to any student on the P/F option is one course per term with a maximum of 12 credits during a student’s entire course of study. This option is not available for courses in the student’s major, for students on probation, or for **Engineering** majors.

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**Go to MyFAU to:**

- Check e-mail
- See FAU Announcements
- **FAU Self-Service:**
  - Course schedules
  - Registration (drop/add classes) and withdrawals
  - Student records and financial aid
  - Tuition payments
  - The University Course Catalog

[http://myfau.fau.edu](http://myfau.fau.edu)

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**University Advising Services**

July 20, 2018
FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language) - REQUIRED FOR MAJOR

Students with more than one year of a foreign language in high school should enroll in the second half of the beginners foreign language class (ARA/CHI/FRE/GER/HBR/ITA/JPN/LAT/SPN 1121) or a higher level course. Proficiency for a first-level course can be earned by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor. CLEP exam credits meet this requirement: see the catalog.

NOTE: Native Speakers of a foreign language must consult the Languages, Linguistics, and Comparative Literature Department regarding this requirement.

NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE WAC/GRW REQUIREMENT. See the University Advising Services Office for details.

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

The Charles E. Schmidt College of Science Biology department has the following requirements (per the University catalog):

1. A student must earn a “C-” or better in all biology AND cognate courses taken as part of the requirements for an undergraduate degree in Biological Sciences. However, students must earn 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.
## MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES
### B.A. DEGREE

**Required Courses (Biology Core):** 40 - 41 credits:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1011 &amp; L &amp; D</td>
<td>Biodiversity and Lab &amp; Discussion</td>
<td>4 cr – as indicated on first page</td>
</tr>
<tr>
<td>BSC 1010 &amp; L &amp; D</td>
<td>Biological Principles and Lab &amp; Discussion</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHM 2045 &amp; L&lt;sup&gt;1&lt;/sup&gt;</td>
<td>General Chemistry I and Lab</td>
<td>4 cr – as indicated on first page</td>
</tr>
<tr>
<td>CHM 2046 &amp; L&lt;sup&gt;1&lt;/sup&gt;</td>
<td>General Chemistry II and Lab</td>
<td>4 cr</td>
</tr>
<tr>
<td>CHM 2210 &amp; D&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Organic Chemistry I</td>
<td>3 cr</td>
</tr>
<tr>
<td>CHM 2211&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Organic Chemistry II</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

<sup>1</sup>Chemistry courses require a “C” or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 2121</td>
<td>Physical Science</td>
<td>3 cr</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Methods of Calculus</td>
<td>3 cr</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus w/Analytic Geometry</td>
<td>4 cr</td>
</tr>
<tr>
<td>STA 3173</td>
<td>Introduction to Biostatistics</td>
<td>3 cr (prerequisite: MAC 2233)</td>
</tr>
<tr>
<td>PSY 3234</td>
<td>Exp. Design &amp; Stat. Inference</td>
<td>3 cr (prerequisite: PSY 1012)</td>
</tr>
</tbody>
</table>

Select at least three (3) of the courses below (the other course may be used as Biology elective): 9 – 10 credits

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PCB 3063</td>
<td>Genetics</td>
<td>4 cr</td>
</tr>
<tr>
<td>PCB 3023</td>
<td>Cell Biology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PCB 4043</td>
<td>Principles of Ecology</td>
<td>3 cr</td>
</tr>
<tr>
<td>PCB 3674</td>
<td>Evolution</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**Biology electives** (select 15 credits): Please note you must have course prerequisite(s) completed

<table>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>Biochemistry I (BCH 3033)</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Vascular Plant Anatomy &amp; Lab (BOT 3223 &amp; 3223L)</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>Marine Botany &amp; Lab (BOT 4404 &amp; 4404L)</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>Principles of Plant Physiology &amp; Lab (BOT 4503 4503L)</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>Plant Biotechnology (BOT 4734C)</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Life of a Biologist (BSC 2844)</td>
<td>1 credit</td>
<td></td>
</tr>
<tr>
<td>Conservation Biology (BSC 3052)</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Introduction to Biological Research (BSC 3453)</td>
<td>1 credit</td>
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</tr>
<tr>
<td>Biological Research (BSC 3481)</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>Molecular Genetics of Aging (BSC 4022)</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Biotechnology Laboratory 1 (BSC 4403L)</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>Biotechnology Laboratory 2 (BSC 4448L)</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>Concepts in Bioinformatics (BSC 4434C)</td>
<td>3 credits</td>
<td></td>
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<tr>
<td>Biology of Cancer (BSC 4806)</td>
<td>3 credits</td>
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<tr>
<td>Directed Independent Study (BSC 4905)</td>
<td>1-3 credits</td>
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<tr>
<td>Honors Research (BSC 4917)</td>
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<tr>
<td>Honors Thesis (BSC 4918)</td>
<td>3 credits</td>
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<tr>
<td>Special Topics (BSC 4930)</td>
<td>1-3 credits</td>
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<tr>
<td>Comparative Animal Behavior (CBH 4024)</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry II Lab (CHM 2211L)</td>
<td>2 credits</td>
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</tr>
<tr>
<td>Critical Thinking in Environmental Science (EVS 4021)</td>
<td>3 credits</td>
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<tr>
<td>General Microbiology &amp; Lab (MCB 3020 &amp; 3020L)</td>
<td>4 credits</td>
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<tr>
<td>Medical Bacteriology (MCB 4203)</td>
<td>3 credits</td>
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<tr>
<td>Virology (MCB 4503)</td>
<td>3 credits</td>
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</tr>
<tr>
<td>Microbial Ecology (MCB 4603)</td>
<td>3 credits</td>
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### OR

31 – 35 credits

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40 – 41 credits

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15 credits

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<tbody>
<tr>
<td>Biology Electives</td>
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29 – 34 credits

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Free Electives</td>
<td>(17 – 20 credits must be upper-division)</td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL

120 CREDITS

(45 credits at upper division minimum)
B.S. DEGREE

Required Courses (Biology Core): 47 - 48 credits

- BSC 1011 & L & D Biodiversity and Lab & Disc 4 cr – as indicated on first page
- BSC 1010 & L & D Biological Principles and Lab & Disc 4 cr
- CHM 2045 & L General Chemistry I and Lab 4 cr - (Chemistry courses require a “C” or better)
- CHM 2046 & L General Chemistry II and Lab 4 cr - (Requires a “C” or better)
- CHM 2210 & D Organic Chemistry I 3 cr - (Requires a “C” or better)
- CHM 2211 Organic Chemistry II 3 cr - (Requires a “C” or better)

OR

- MAC 2233 Methods of Calculus 3 cr
- MAC 2311 Calculus w/Analytic Geometry 4 cr

OR

- PHY 2053 College Physics I 4 cr - Prerequisite of a “C” in one of these courses: MAC 1114/1147/2233/2311
- PHY 2048L General Physics I Lab 1 cr

OR

- PHY 2048 General Physics I 4 cr - Prerequisite of a “C” in MAC 2311 per University catalog
- PHY 2048L General Physics I Lab 1 cr

OR

- PHY 2054 College Physics II 4 cr
- PHY 2049L General Physics II Lab 1 cr

OR

- PHY 2049 General Physics II 4 cr
- PHY 2049L General Physics II Lab 1 cr

OR

- STA 3173 Introduction to Biostatistics 3 cr - prerequisite: MAC 2233 per University catalog
- PSY 3234 Exp. Design & Stat. Inference 3 cr - prerequisite: PSY 1012 per University catalog

Select at least three (3) of the courses below (the other course may be used as Biology elective): 9 – 10 credits

- PCB 3063 Genetics 4 cr
- PCB 3023 Cell Biology 3 cr
- PCB 4043 Principles of Ecology 3 cr
- PCB 3674 Evolution 3 cr

Electives: (select at least 21 credits from the list below): BS Biology majors may also choose electives from BS Neuroscience & Behavior elective list

- Biochemistry I (BCH 3033) 3 credits
- Vascular Anatomy & Lab (BOT 3223 & 3223L) 4 credits
- Marine Botany & Lab (BOT 4404 & 4404L) 4 credits
- Principles of Plant Physiology & Lab (BOT 4503 4503L) 4 credits
- Plant Biotechnology (BOT 4734C) 3 credits
- Life of a Biologist (BSC 2844) 1 credit
- Conservation Biology (BSC 3052) 3 credits
- Introduction to Biological Research (BSC 3453) 1 credit
- Biological Research (BSC 3481) 2 credits
- Molecular Genetics of Aging (BSC 4022) 3 credits
- Biotechnology Laboratory 1 (BSC 4403L) 2 credits
- Biotechnology Laboratory 2 (BSC 4448L) 2 credits
- Concepts in Bioinformatics (BSC 4434C) 3 credits
- Biology of Cancer (BSC 4806) 3 credits
- Directed Independent Study (BSC 4905) 1-3 credits
- Honors Research (BSC 4917) 3 credits
- Honors Thesis (BSC 4918) 3 credits
- Special Topics (BSC 4930) 1-3 credits
- Comparative Animal Behavior (CBH 4024) 3 credits
- Organic Chemistry II Lab (CHM 2211L) 2 credits
- Critical Thinking in Environmental Science (EVS 4021) 3 credits
- General Microbiology & Lab (MCB 3020 & 3020L) 4 credits
- Medical Bacteriology (MCB 4203) 3 credits
- Virology (MCB 4503) 3 credits
- Microbial Ecology (MCB 4603) 3 credits

31 – 35 credits Intellectual Foundations Program and Foreign Language
47 – 48 credits Biology Core
21 credits Biology Electives
17 – 20 credits Free Electives – (11 – 14 credits must be upper-division)
120 CREDITS TOTAL (45 credits at upper division minimum)