JACKSON STATE UNIVERSITY  
Curricular Sheet  
Bachelor of Science Degree

Major: Biology  
Concentration: Environmental Science

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>FALL</th>
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<tbody>
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**TOTAL HOURS: 124**
• Students earning a sub score less than 17 in English on the ACT (or the corresponding score on the SAT) will be placed in ENG 002.
• Students earning a sub score less than 17 in Mathematics on the ACT (or the corresponding score on the SAT) will be placed in Math 004.
• Students earning a sub score less than 17 in Reading on the ACT (or the corresponding score on the SAT) will be placed in RB 002.
• All students must take the Undergraduate English Proficiency Examination (UEPE) after the sophomore year. Students not passing the exam must take ENG 399, Functional Writing.

a. Students who transfer 12 or more hours of college credit are exempt from UNIV 100
b. HE 101 (3 credit hours) may be taken in place of PE XXX (1 credit hour) and PE XXX (1 credit hour).
c. Students who have completed two years of a single foreign language in high school with grades of “C” or better are exempt from the foreign language requirements.
d. ART 206, MUS 205, DR 201, ENG 201 or ENG 202 may be taken
e. SPCH 201, SPCH 216, SPCH 334, SPCH 335, or SPCH 430 may be taken
f. PHIL 301, PHIL 308, PHIL 309 or PHIL 416 may be taken
g. SS 201, SS 202, GEO 105, GEO 209, SOC 214, SOC 325, PS 334, PS 335, PS 336, ECO 211, ECO 212, PSY 111, OR PSY 112 may be taken
h. BIO 202, BIO 218, BIO 236, BIO 404; BIO 414, BIO 423, BIO 425, BIO 431, BIO 433, BIO 450, BIO 480, BIO 481 or BIO 550 may be taken

NOTE: Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.
## Major: Biology

### Concentration: Marine Science

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<td>Social Science Option&lt;sup&gt;f&lt;/sup&gt;</td>
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<td>Speech Option&lt;sup&gt;g&lt;/sup&gt;</td>
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<td>(Senior Year Total Hours: 32)</td>
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a Students who transfer 12 or more hours of college credit are exempt from UNIV 100.
b HE 101 (3 credit hours) may be taken in place of PE XXX (1 credit hour) and PE XXX (1 credit hour).
c Students who have completed two years of a single foreign language in high school with grades of "C" or better are exempt from the foreign language requirements. This exemption must be listed on your JSU transcript. The six credit hours must be replaced with other courses.
d ART 206, MUS 205, DR 201, ENG 201 or ENG 202 may be taken.
e PHIL 301, PHIL 308, PHIL 309 or PHIL 416 may be taken.
f SS 201, SS 202, GEO 105, GEO 209, SOC 214, SOC 325, PS 334, PS 335, PS 336, ECO 211, ECO 212, PSY 111, OR PSY 112 may be taken.
g SPCH 201, SPCH 216, SPCH 334, SPCH 335, or SPCH 430 may be taken.
h BIO 202, BIO 236, BIO 412, BIO 414, BIO 425, BIO 431, BIO 433, BIO 434, BIO 438, BIO 450, BIO 480, or BIO 481 may be taken. Other courses may be taken with the approval of the department Chair.
i Students may not take Biology, Math, Chemistry or Physics for a general elective

NOTE: Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.
**JACKSON STATE UNIVERSITY**
Curricular Sheet
Bachelor of Science Degree

Effective: Fall 2012

### 4 Year Curriculum
Designed to Prepare Students for Entry to
**MASTER'S LEVEL**
Physical Therapy Program

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<th>Major: Biology</th>
<th>Concentration: Pre-Physical Therapy</th>
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<td>Composition and Literature</td>
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<td>UNIV 100a</td>
<td>University Success in College (Freshman Year Total Hours: 30)</td>
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**TOTAL HOURS:** 124
- Students earning a sub score less than 17 in English on the ACT (or the corresponding score on the SAT) will be placed in ENG 002.
- Students earning a sub score less than 17 in Mathematics on the ACT (or the corresponding score on the SAT) will be placed in Math 004.
- Students earning a sub score less than 17 in Reading on the ACT (or the corresponding score on the SAT) will be placed in RE 002.
- All students must take the Undergraduate English Proficiency Examination (UEPE) after the sophomore year. Students not passing the exam must take ENG 399, Functional Writing.

CORE II OPTIONS
a. Students who transfer 12 or more hours of college credit are exempt from UNIV 100.
b. ART 260, MUS 205, DR 201, ENG 201 or ENG 202 may be taken.
c. SPCH 201, SPCH 216, SPCH 334, SPCH 335, or SPCH 430 may be taken.
d. BIO 202, ECO 359, MATH 271, or PSY 211 may be taken depending on Professional school requirements.
e. HE 101 (3 credit hours) may be taken in place of PE XXX (1 credit hour) and PE XXX (1 credit hour).
f. Students who have completed two years of a single foreign language in high school with grades of "C" or better are exempt from the foreign language requirements. This exemption must be listed on your JSU transcript. The six credit hours must be replaced with other courses.
g. PHIL 301, PHIL 308, PHIL 309 or PHIL 416 may be taken.
h. Students may not take Biology, Math, Chemistry or Physics for a general elective.

NOTE: Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.

OTHER PREREQUISITE REQUIREMENTS
Provide evidence of observation in a minimum of two physical therapy clinical departments or practices for a total of 40 hours (additional hours and sites recommended).

CLINICAL TRAINING (2 YEARS)
An additional two (2) years of clinical training is required for the M.S. degree in Physical Therapy at an accredited health professional school.
### Major: Biology

#### Freshman Year
- **BIO 111, BIOL 111**
- **BIO 112, BIOL 112**
- **BIO 114**
- **CHEM 141, CHEM 142**
- **CHEM 142, CHEML 142**
- **MATH 111**
- **MATH 112**
- **ENG 104**
- **ENG 105**
- **UNIV 106**

General Biology
General Biology
Intro to Marine/Environmental Sciences
General Chemistry
General Chemistry
College Algebra
Trigonometry
Composition and Literature
Composition and Literature
University Success in College

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**Freshman Year Total Hours: 32**

#### Sophomore Year
- **BIO 119, BIOL 119**
- **BIO 234, BIOL 234**
- **BIO 235, BIOL 235**
- **CHEM 241, CHEML 241**
- **CHEM 242, CHEML 242**
- **MATH 241**
- **ENG 205**
- **Fine Arts Option**

General Botany
Human Anatomy and Physiology I
Human Anatomy and Physiology II
Organic Chemistry
Organic Chemistry
Calculus I
World Literature

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**Sophomore Year Total Hours: 29**

#### Junior Year
- **BIO 313, BIOL 313**
- **BIO 318 (w), BIOL 318**
- **BIO 390 (w)**
- **BIO 392(e)**
- **PHY 201, PHYL 201**
- **PHY 202, PHYL 202**
- **MFL XXX**
- **MFL XXX c**
- **HIST 101**
- **HIST 102**

Introduction to Microbiology
Introduction to Genetics
Seminar in Biology
Independent Study
Basic Physics I
Basic Physics II
Modern Foreign Language
Modern Foreign Language
History of Civilization
History of Civilization

<table>
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<tbody>
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<td>18</td>
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</table>

**Junior Year Total Hours: 34**

#### Senior Year
- **BIO 440, BIOL 440**
- **PE XXX**
- **PE XXX c**
- **CSC 115**
- **Philosophy Option**
- **Social Science Option**
- **Speech Option**
- **Economics Option**
- **Biology Electives**

Cell Biology
Physical Education
Physical Education
Digital Computer Principles

<table>
<thead>
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<tr>
<td>15</td>
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</tbody>
</table>

**Total Hours: 124**

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*General Notes:
- **Fine Arts Option**: Choose one.
- **Philosophy Option**: Choose one.
- **Social Science Option**: Choose one.
- **Speech Option**: Choose one.
- **Economics Option**: Choose one.
- **Biology Electives**: Choose a total of 9 additional hours from the biology electives list.
a. Students who transfer 12 or more hours of college credit are exempt from UNIV 100.

b. ART 206, MUS 205, DR 201, ENG 201 or ENG 202 may be taken.

c. Students who have completed two years of a single foreign language in high school with grades of “C” or better are exempt from the foreign language requirements. This exemption must be listed on your JSU transcript. The six credit hours must be replaced with other courses.

d. BIO 202 or MATH 271 may be taken.

e. HE 101 (3 credit hours) may be taken in place of PE XXX (1 credit hour) and PE XXX (1 credit hour).

f. PHIL 301, PHIL 308, PHIL 309 or PHIL 416 may be taken.

g. SS 201, SS 202, GEO 105, GEO 209, SOC 214, SOC 325, PS 334, PS 335, PS 336, ECO 211, ECO 212, PSY 111, PSY 112 OR PSY 201 may be taken.

h. SPCH 201, SPCH 216, SPCH 334, SPCH 335, or SPCH 430 may be taken.

i. ECO 211 or ECO 212 may be taken.

j. BIO 236, BIO 380, BIO 390, BIO 404, BIO 409, BIO 423, BIO 425, BIO 441, BIO 443, BIO 450 or BIO 475 may be taken. Other courses may be taken with the approval of the department chair.

NOTE: Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.
# Jackson State University Curricular Sheet

## Bachelor of Science Degree

### Major: Biology

#### Concentration: Pre-Medicine
- Pre-Veterinary
- Pre-Dentistry
- Pre-Optometry

<table>
<thead>
<tr>
<th>FALL</th>
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</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 111, BIOL 111</td>
<td>General Biology</td>
</tr>
<tr>
<td>BIO 112, BIOL 112</td>
<td>General Biology</td>
</tr>
<tr>
<td>BIO 114</td>
<td>Intro to Marine/Environmental Sciences</td>
</tr>
<tr>
<td>CHEM 141, CHML 141</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 142, CHML 142</td>
<td>General Chemistry</td>
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<td>MATH 111</td>
<td>College Algebra</td>
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<td>MATH 112</td>
<td>Trigonometry</td>
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<tr>
<td>ENG 104</td>
<td>Composition and Literature</td>
</tr>
<tr>
<td>ENG 105</td>
<td>Composition and Literature</td>
</tr>
<tr>
<td>UNIV 100*</td>
<td>University Success in College</td>
</tr>
<tr>
<td><strong>(Freshman Year Total Hours: 32)</strong></td>
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<table>
<thead>
<tr>
<th>FALL</th>
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</thead>
<tbody>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
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</tr>
<tr>
<td>BIO 115, BIOL 115</td>
<td>General Zoology</td>
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<tr>
<td>BIO 119, BIOL 119</td>
<td>General Botany</td>
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<td>CHEM 241, CHML 241</td>
<td>Organic Chemistry</td>
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<td>CHEM 242, CHML 242</td>
<td>Organic Chemistry</td>
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<td>MATH 241</td>
<td>Calculus I</td>
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<td>ENG 205</td>
<td>World Literature</td>
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<td>Fine Arts Option b</td>
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<td>Speech Option *</td>
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<td><strong>(Sophomore Year Total Hours: 28)</strong></td>
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<tbody>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
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<tr>
<td>BIO 318 (w), BIOL 318</td>
<td>Introduction to Genetics</td>
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<td>Independent Study</td>
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<td>BIO 390 (w)</td>
<td>Seminar in Biology</td>
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<td>PHY 201, PHYL 201</td>
<td>Basic Physics I</td>
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<tr>
<td>PHY 202, PHYL 202</td>
<td>Basic Physics II</td>
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<td>History of Civilization</td>
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<td>HIST 102</td>
<td>History of Civilization</td>
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<td>CSC 115</td>
<td>Digital Computer Principles</td>
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<tr>
<td><strong>(Junior Year Total Hours: 32)</strong></td>
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<thead>
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<tbody>
<tr>
<td><strong>SENIOR YEAR</strong></td>
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</tr>
<tr>
<td>BIO 313, BIOL 313</td>
<td>Introduction to Microbiology</td>
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<td>BIO 440, BIOL 440</td>
<td>Cell Biology</td>
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<td>BIO 470 (w), BIOL 470</td>
<td>Human Physiology</td>
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<td>PSY 201</td>
<td>General Psychology</td>
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<td>Biology Electives b</td>
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<td><strong>(Senior Year Total Hours: 32)</strong></td>
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<tr>
<td><strong>TOTAL HOURS: 124</strong></td>
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</table>
Students earning a sub score less than 17 in English on the ACT (or the corresponding score on the SAT) will be placed in ENG 002.

Students earning a sub score less than 17 in Mathematics on the ACT (or the corresponding score on the SAT) will be placed in Math 004.

Students earning a sub score less than 17 in Reading on the ACT (or the corresponding score on the SAT) will be placed in RE 002.

All students must take the Undergraduate English Proficiency Examination (UEPE) after the sophomore year. Students not passing the exam must take ENG 399, Functional Writing.

a. Students who transfer 12 or more hours of college credit are exempt from UNIV 100.
b. ART 206, MUS 205, DR 201, ENG 201 or ENG 202 may be taken.
c. SPCH 201, SPCH 216, SPCH 334, SPCH 335, or SPCH 430 may be taken.
d. HE 101 (3 credit hours) may be taken in place of PE XXX (1 credit hour) and PE XXX (1 credit hour).
e. Students who have completed two years of a single foreign language in high school with grades of "C" or better are exempt from the foreign language requirements. This exemption must be listed on your JSU transcript. The six credit hours must be replaced with other courses.
f. SS 201, SS 202, GEO 195, GEO 209, SOC 214, SOC 325, PS 334, PS 335, PS 336, ECO 211, ECO 212, PSY 111 OR PSY 112 may be taken.
g. PHIL 301, PHIL 308, PHIL 309 or PHIL 416 may be taken.
h. BIO 202, BIO 234, BIO 235, BIO 236, BIO 380, BIO 391, BIO 393, BIO 409, BIO 423, BIO 425, BIO 430, BIO 441, BIO 443, BIO 450, BIO 475, BIO 476 or BIO 491 may be taken. Other courses may be taken with the approval of the department Chair.
i. Students may not take Biology, Math, Chemistry or Physics for a general elective.

NOTE: Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.
Effective: Fall 2000

JACKSON STATE UNIVERSITY
Curricular Sheet

2 year curriculum designed to prepare students for entry to Bachelor-Level Nursing Program

<table>
<thead>
<tr>
<th>Major: Biology</th>
<th>Concentration: Pre-Nursing</th>
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**FRESHMAN YEAR**

<table>
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<tr>
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<td>BIO 112, BIOL 112</td>
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<td>MATH 111</td>
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<td>SPCH 201</td>
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<td>ART 206 or MUS 205</td>
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<td>GUID 100</td>
<td>Concepts for Success in College</td>
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(Freshman Year Total Hours: 36)

**SOPHOMORE YEAR**

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<td>BIO 202</td>
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<td>BIO 234, BIOL 234</td>
<td>Human Anatomy and Physiology I</td>
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<td>Human Anatomy and Physiology II</td>
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<td>BIO 313, BIOL 313</td>
<td>Introduction to Microbiology</td>
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<td>BIO 413</td>
<td>Principles of Human Nutrition</td>
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<td>ENG 205</td>
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<td>HIST 101</td>
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<td>MNGT 250</td>
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(Sophomore Year Total Hours: 39)

TOTAL HOURS: 75

- Students scoring a subscore below 16 in English on the ACT will be placed in ENG 002.
- Students scoring a subscore below 16 in Mathematics on the ACT will be placed in Math 004.

The Bachelor of Science Degree in Nursing requires two additional years of training in a professional School of Nursing. Upon completion of the prerequisites, the student will be eligible for admission to a School of Nursing as a junior nursing student.