A minimum of **40 CREDITS** must be earned from within BSC; Independent study BSC 485 – 488 does **NOT** count toward this requirement. BSC 227, 228 & 250 do **NOT** count toward this major. **Course offerings are subject to change semesters. Consult each semester’s schedule of courses for availability. A 2.0 GPA is required for graduation.**

<table>
<thead>
<tr>
<th>COMPLETED</th>
<th>COLLEGE OF SCIENCE SPECIFIC REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 hours, Literature</td>
</tr>
<tr>
<td></td>
<td>Minor</td>
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<thead>
<tr>
<th>COMPLETED</th>
<th>MAJOR SPECIFIC REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>Semester</td>
</tr>
<tr>
<td>BSC 120 Principles I</td>
<td>F&amp;S</td>
</tr>
<tr>
<td>BSC 121 Principles II</td>
<td>F&amp;S</td>
</tr>
<tr>
<td>*BSC 302 Prin Micro</td>
<td>F&amp;S</td>
</tr>
<tr>
<td>*BSC 320 Ecology</td>
<td>All</td>
</tr>
</tbody>
</table>

Required by Major Electives – Pick ONE elective from EACH group (Three required).

**Group One – Cellular/Molecular/Medical**
- **BSC 365 Biochem** Fall 3
- BSC 420 Plant Physiology Spring 4
- **BSC 450 Molecular** Fall 3

**Group Two – Ecology & Evolutionary**
- BSC 413 Organic Evol Fall 3
- BSC 417 Biostatistics F&S 3
- BSC 425 Biosystematics Fall 3

**Group Three – Microbiology**
- BSC 304 Micro Lab F&S 2
- **BSC 365 Biochem** Fall 3
- BSC 443 Micro Gen Fall 3

**Prereq for BSC 365 is CHM 356 & Prereq for BSC 450 is BSC 322.**

Total Major Elective Hours _________

Allowable BSC Electives – Choose from BSC offerings to meet a MINIMUM of 40 credit hours.

BSC _________ _______ _______ BSC _________ _______ _______

Total Allowable Elective Hours _________

Total Biology Hours must be at least 40 hours

<table>
<thead>
<tr>
<th>COMPLETED – CHEMISTRY (Completion of the listed Chemistry courses provides a minor.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211 &amp; 217, Chem I &amp; Lab 3, 2</td>
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<tr>
<td>CHM 212 &amp; 218, Chem II &amp; Lab3, 2</td>
</tr>
<tr>
<td>CHM 355 Organic I</td>
</tr>
<tr>
<td>CHM 356 Organic II</td>
</tr>
<tr>
<td>CHM 361 Organic Lab</td>
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</table>

<table>
<thead>
<tr>
<th>COMPLETED – PHYSICS (Pre-regs. MTH 229, 132, OR 127/130/140 AND 122)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 201 &amp; 202, Gen Physics I &amp; Lab 3, 1</td>
</tr>
<tr>
<td>PHY 203&amp; 204 Gen Physics II &amp; Lab 3, 1</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>COMPLETED – MATHEMATICS (Depends on ACT/SAT math scores)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 229 Calculus I * 5</td>
</tr>
<tr>
<td>OR MTH 132 Pre-Calculus 5</td>
</tr>
</tbody>
</table>

**OR TWO of the following:**
- MTH 127 or 130 Algebra 5 or 3
- MTH 140 Applied Calc 3
- MTH 122 Trig 3
- MTH 225 Statistics 3

**Calculus is a COS Specific Requirement.**

*#MTH 229, 132, OR 127/130/140 AND 122 is prerequisite(s) for PHY 201.*

MARSHALL UNIVERSITY CORE REQUIREMENTS

Must have a **GRADE** in **ALL** required courses (except for AP credit)

***A 2.00 GPA is required for graduation***

<table>
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**CORE I, 9 CREDIT HOURS – Must be 100 – 299 level**

- 3 hrs, First Year Seminar
- 6 hrs, Critical Thinking

**CORE II, 25 CREDIT HOURS – Must be 100 – 299 level**

- 6 hours, Composition *(Must earn a C or better)*
  - ENG101/101A 3 hrs. _____ **AND** ENG 102/201 3 hrs. _____ **OR** ENG 200H/201H 6 hrs. _____

- 3 hours, Communications
  - CMM 103 _____ **OR** CMM 104H _____ **OR** CMM 207 _____

- 3 hours, Fine Arts
  - ART 112 _____ **OR** MUS 142 _____ **OR** MUS 210* _____ **OR** THE 112 _____

- 3 hours, Humanities
  - CMM 205*, 239, 240
  - FRN 240
  - GER 240
  - HON 200
  - JPN 200
  - PHL 200, 200H, 201, 250
  - RST 205, 206, 220, 225, 250

- 3 hours, Math *(COS requires MTH 140 or MTH 229* for graduation)*
  - BSC 104, 105, 120, 121, 228, 250
  - CHM 211 plus 217, 212 plus 218
  - GLY 110 plus 210L, 150 plus 150L, 200 plus 210L
  - ISC 200, 201, 202, 205, 208, 209, 211
  - IST 111, 224
  - PHY 101 plus 101L, 201 plus 202, 203 plus 204, 211 plus 202 or 212, 213 plus 204 or 214
  - PS 109 plus 109L, 110 plus 110L

- 3 hours, Social Science
  - ANT 201*, ANT 201H* CMM 213, 255
  - CJ 200, 211, 221, 231, 241 GEO 100*, 203, 206
  - PSC 104, 105*, 202, 207, 209, 211, 233
  - PSY 201*, 201H, 223
  - SOC 200*, 200H*

*Core II courses that have also been approved as Core I (CT) courses

- 3 hours, Multicultural or International studies
- 6 hours, Writing Intensive Capstone 2 – 3 hrs

**TOTAL HOURS REQUIRED** – AT LEAST 120 OF WHICH 40 MUST BE 300 – 499 LEVEL *(transfer courses may not count as upper level)*

Total Hours ______________________________ 300-400 level hours ______________________________

*Catalog Year: 2011 – 2012; 2012 – 2013

Students are responsible for knowing graduation requirements and tracking their progress.

This document is for advising purposes only, and shall not be construed to bind the University, except to the extent that it accurately reflects policies and procedures that the University may from time to time establish or modify.