

## COLLEGE OF SCIENCE – BIOLOGY MAJOR

Name \_\_\_\_\_ Date \_\_\_\_\_

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.**

**COMPLETED COLLEGE OF SCIENCE SPECIFIC REQUIREMENTS**

\_\_\_\_\_ **3 hours, Literature** \_\_\_\_\_

\_\_\_\_\_ **Minor (s)** \_\_\_\_\_

**COMPLETED MAJOR SPECIFIC REQUIREMENTS**

<i>Required Courses</i>	<i>Semester</i>	<i>Hrs.</i>	<i>Grade</i>	<i>Semester</i>	<i>Hrs.</i>	<i>Grade</i>
BSC 120 Principles I	F&S	4	_____	BSC 121 Principles II	F&S	4 _____

**Required Core Courses – One of these core courses is a prerequisite for Major Elective and BSC Allowable Electives listed below.**

BSC 302 Gen Bact	F&S	3	_____	BSC 322 Cell	All	4 _____
BSC 320 Ecology	All	4	_____	BSC 324 Genetics	All	4 _____

**Required by Major Electives – Three required. Pick ONE elective from THREE of the four groups**

<i>Group One - Cellular/Molecular</i>	<i>Group Three - Microbiology</i>					
**BSC 365 Biochem	F	3	_____	BSC 304 Micro. Lab	F&S	2 _____
***BSC 450 Molecular	F	3	_____	**BSC 365 Biochem.	F	3 _____
BSC 452 Mol. Lab <b>OR</b>	F	3	_____	BSC 443 Micro. Gen.	F	3 _____
BSC 481 DNA Cloning	S	2	_____			

<i>Group Two – Biomedical Sciences</i>	<i>Group Four – Ecology &amp; Evolutionary</i>					
BSC 301 Ver. Embry.	F&S	4	_____	BSC 413 Organic Evol.	F	3 _____
**BSC 365 Biochem.	F	3	_____	BSC 417 Biostatistics	F&S	3 _____
BSC 422 Animal Phys.	F&S	4	_____	BSC 425 Biosystematics	F	3 _____

**\*\*Prereq for BSC 365 is BSC 121 with a C or better AND CHM 356. \*\*\*Prereq for BSC 450 is BSC 322.**

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

BSC \_\_\_\_\_ BSC \_\_\_\_\_ BSC \_\_\_\_\_

BSC 491 Capstone All 2 \_\_\_\_\_

**Total Biology Degree Hours must be at least 40 credit hours**

<b>COMPLETED – CHEMISTRY<sup>§</sup></b>	<b>COMPLETED – PHYSICS</b>
CHM 211 & 217, Chem I & Lab	3, 2 _____
CHM 212 & 218, Chem II & Lab	3, 2 _____
CHM 355 Organic I	3 _____
CHM 356 Organic II	3 _____
CHM 361 Organic Lab	3 _____
	(Pre-reqs. MTH 229, 132, <b>OR</b> 127/130/140 <b>AND</b> 122)
	PHY 201 Gen Physics I
	PHY 202 Gen Physics Lab I
	PHY 203 Gen Physics II
	PHY 204 Gen Physics Lab II

<sup>§</sup>Completion of the listed Chemistry courses provides a minor.

**COMPLETED – MATHEMATICS** (Depends on ACT/SAT math scores)

MTH 229 Calculus I \*<sup>#</sup> 5 \_\_\_\_\_ **OR** MTH 132 Pre-Calculus<sup>#</sup> 5 \_\_\_\_\_

**OR TWO** of the following:

MTH 127/130 Algebra <sup>#</sup>	5/3 _____	MTH 122 Trig <sup>#</sup>	3 _____
MTH 140 Applied Calculus * <sup>#</sup>	3 _____	MTH 225 Statistics	3 _____

**\*Calculus is a COS Specific Requirement.**

**#MTH 229, 132, or 127/130/140 AND 122 are prerequisites 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\*\*\***

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**COMPLETED**      **CORE I, 9 CREDIT HOURS – Must be 100 – 299 level**

\_\_\_\_\_ **3 hrs, First Year Seminar** \_\_\_\_\_

\_\_\_\_\_ **6 hrs, Critical Thinking** \_\_\_\_\_

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

\_\_\_\_\_ **6 hours, Composition** (Grade of **C** or higher required)

ENG101 3 hrs. \_\_\_\_\_ **AND** ENG 102 3 hrs. \_\_\_\_\_ **OR** ENG 201H 6 hrs. \_\_\_\_\_

*Must earn a C or better in ENG 102 or ENG 201H in order to graduate.*

\_\_\_\_\_ **3 hours, Communications** CMM 103 \_\_\_\_\_ CMM 104H \_\_\_\_\_ **OR** CMM 207 \_\_\_\_\_

\_\_\_\_\_ **3 hours, Fine Arts** ART 112 \_\_\_\_\_ MUS 142 \_\_\_\_\_ **OR** THE 112 \_\_\_\_\_

\_\_\_\_\_ **3 hours, Humanities** \_\_\_\_\_

CL 210\*, 231, 232, 233, 234, 235, 236, 237, 250

CMM 205, 239, 240

ENG 200\*, 202, 203, 206, 209, 210, 211, 212, 213, 215, 220, 225, 231, 235, 236, 240, 241, 242

FRN 240

GER 240

JPN 240

PHL 200, 200H, 201, 250

RST 205, 206, 250

SPN 240

\_\_\_\_\_ **3 hours, Math** (*MTH 140, MTH 229, OR IST 131 for Science majors*) \_\_\_\_\_

\_\_\_\_\_ **4 hours, Natural or Physical Sciences** \_\_\_\_\_

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

IST 111, 131, 224, 230

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

HST 101\*, 102\*, 103\*, 103H, 125, 200, 205, 206, 208\*, 219, 220, 221, 223, 230\*, 230H\*, 231\*, 231H\*, 250, 260, 265

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*

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\_\_\_\_\_ **3 hours, Multicultural** \_\_\_\_\_ **OR** **International studies** \_\_\_\_\_

\_\_\_\_\_ **6 hours, Writing Intensive** \_\_\_\_\_

\_\_\_\_\_ **Capstone 2 – 3 hrs** \_\_\_\_\_

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**TOTAL HOURS REQUIRED – AT LEAST 120 OF WHICH 40 MUST BE 300 – 499 LEVEL**

**Total Hours** \_\_\_\_\_ **300-400 level hours** \_\_\_\_\_

*Catalog Year: 2010 – 2011*