

COLLEGE OF SCIENCE – BIOCHEMISTRY MAJOR

Name _____ Date _____

*Course offerings are subject to change semesters. Please consult each semester's schedule of courses for availability.
A 2.00 GPA is required for graduation.*

COMPLETED COLLEGE OF SCIENCE SPECIFIC REQUIREMENTS

_____ **3 hours – Literature** _____
 _____ **Minor(s)** _____

COMPLETED MAJOR SPECIFIC REQUIREMENTS

<i>Chemistry Requirements</i>	<i>Semester</i>	<i>Hrs</i>	<i>Grade</i>
CHM 211 & 217, Principles I & Lab	All	3, 2	_____
CHM 212 & 218, Principles II & Lab	All	3, 2	_____
CHM 307, Intro Physical Chemistry *** (prereq. CHM 212 C & MTH & 8 hrs. PHY)	Spring	4	_____
<i>***CHM 357 & 358 recommended for graduate school.</i>			
CHM 357, PChem I (Fall, 4 hrs) (prereq. CHM 212 C & MTH & 8 hrs. PHY)			
CHM 358, PChem II (Spring, 4 hrs) (prereq. CHM 357)			
CHM 345, Analytical (prereq. CHM 212 & 218)	Fall & Spring	4	_____
CHM 355, Organic I (prereq. C or better in CHM 212)	All	3	_____
CHM 356, Organic II (prereq. C or better in CHM 355)	All	3	_____
CHM 361, Organic Lab (co req. or prereq. CHM 356)	All	3	_____
CHM 365, Biochemistry (prereq. CHM 356)	Fall	3	_____
CHM 366, Biochemistry Lab (co req. or prereq. CHM 365)	Spring	2	_____
CHM 467, Biochemistry II (prereq. CHM 365)	Spring	3	_____
300 or 400 level Chemistry Elective *		3 or 4	_____
<i>*A list of approved upper-level CHM electives is on the Chemistry website.</i>			
CHM 491, Capstone (permission)	Fall & Spring	2	_____
CHM 432, Seminar (prereq. CHM 491)	Spring	0	_____
TOTAL CHEMISTRY HOURS 40 – 45			

_____ **Biology Requirements – Completion of the Biology requirements will provide a minor in Biological Sciences.**

BSC 120, Principles I	Fall & Spring	4	_____	BSC 324, Genetics	All	4	_____
BSC 121, Principles II	Fall & Spring	4	_____	BSC 450, Molecular	Fall	3	_____
BSC 322, Cell	All	4	_____	(prereq. BSC 322)			

_____ **Mathematics Requirements (Depends on ACT/SAT math scores)**

MTH 140 Applied Calc. 3 _____ **OR** MTH 229 Calculus I 5 _____

_____ **Physics Requirements (Prerequisites: MTH 229, 132; OR 127/130/140 and 122)**

PHY 201 & 202, Gen Physics I & Lab	3, 1	_____	_____
PHY 203 & 204, Gen Physics II & Lab	3, 1	_____	_____

MARSHALL UNIVERSITY CORE REQUIREMENTS

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

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

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

_____ **3 hrs, First Year Seminar** _____

_____ **6 hrs, Critical Thinking** _____

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*

_____ **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

Total Hours _____ **300-400 level hours** _____

Catalog Year: 2010 – 2011