

## COLLEGE OF SCIENCE – A.C.S. CHEMISTRY MAJOR

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

**Students in this major receive a B.S. in Chemistry:** The curriculum meets the minimum standards of the **American Chemical Society** and is recommended for students intending to enter the chemical profession or to apply for graduate work in chemistry. The following sequences of courses will normally qualify the student for certification.

*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 305, Info. Retrieval & Scientific Ethics	Fall	1	_____
CHM 331, Seminar	Fall	CR	_____
CHM 332, Seminar	Spring	CR	_____
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 357, Physical Chem I (prereq. CHM 212 C or better & MTH & 8 hrs. PHY)	Fall	4	_____
CHM 358, Physical Chem II (prereq. CHM 357)	Spring	4	_____
CHM 361, Organic Lab (coreq. or prereq. CHM 356)	All	3	_____
CHM 365, Biochemistry (prereq. CHM 356)	Fall	3	_____
CHM 411, Modern Instrumentation Methods (prereq. CHM 212 C or better & 6 hrs. Organic)	Spring	4	_____
CHM 431, Seminar	Fall	CR	_____
CHM 448, Adv. Inorganic (prereq. CHM 356 & 357)	Fall	4	_____
CHM 491, Capstone (permission)	Fall & Spring	6	_____
CHM 432, Seminar (prereq CHM 491)	Spring	CR	_____

**Total Chemistry Hours 44**

\_\_\_\_\_ **Mathematics Requirements** – *Noted Suggestion: Completion of the Mathematics requirements and completion of MTH 300 will provide a minor in Mathematics.*

MTH 229 Calculus I	5	_____	MTH 231 Calculus III	4	_____
MTH 230 Calculus II	4	_____			

\_\_\_\_\_ **Physics Requirements** – *Prerequisites: MTH 229, 132; OR 127/130/140 and 122.*

PHY 211 & 202, Physics I & Lab	4, 1	_____	_____
PHY 213 & 204, Physics II & Lab	4, 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\*\*\***

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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*