

**COLLEGE OF SCIENCE – ENVIRONMENTAL CHEMISTRY MAJOR**

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

*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**

**Chemistry Requirements**

	<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 &amp; 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)	3 or 4	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 411, Modern Instrumentation Methods (prereq. CHM 212 C or better & 6 hrs. Organic)	Spring	4	____
CHM 423, Environ Analytical Chemistry (prereq C or better in CHM 411)	Spring	3	____
CHM 491, Capstone (permission)	Fall and Spring	2	____
CHM 432, Seminar (prereq. CHM 491)	Spring	0	____

**Biology Requirements – Completion of these BSC courses provides a minor in Biological Sciences.**

BSC 120, Principles Biology I	4	____	BSC 320, Ecology (prereq BSC 121)	4	____
BSC 121, Principles Biology II	4	____	BSC 445, Micro Ecology (prereq BSC 121)	3	____

**Environmental Science Requirements (Choose 8 hours in 2 areas maximum. Physical Science emphasis may take all GLY electives and not take BSC 445 listed above.)**

BSC 431, Limnology	4	____	GLY 455L, Hydrogeology Lab	1	____
BSC 446, Microbial Eco. Lab	2	____	GLY 456, Enviro Geology	3	____
CHM 467, Inter Biochem	3	____	GLY 456L, Envir Geology Lab	1	____
GLY 320L, Geology Lab Tech	2	____	IST 320, Nature of Envir Problems	3	____
GLY 420, Geochemistry	3	____	IST 321, Resol. Envir Problems	3	____
GLY 455, Hydrogeology	3	____	PHY 412, Atmospheric Physics	3	____

**Geology and Geography Requirements – Students wishing a physical science emphasis may take all the Geology electives and not take either BSC 445 or IST 323.**

GLY 200, Physical Geology	3	____	GEO 416, Envir Plan <b>OR</b> GEO 422, Envir Geo	3	____
---------------------------	---	------	--	---	------

**IST Requirements – Completion of these IST courses and 320 and 321 as listed above provides an IST minor.**

IST 322, Assessment I	4	____	IST 323, Assessment II	4	____
-----------------------	---	------	------------------------	---	------

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

MTH 140 Applied Calculus	3	____	<b>OR</b>	MTH 229 Calculus I	5	____
Statistics (IST 424, BSC 417, <b>OR</b> MTH 345)	3	____				

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

PHY 201 & 202, Physics I & Lab	3, 1	____	PHY 203 & 204, 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*