

COLLEGE OF SCIENCE – PHYSICS MAJOR

Name _____ Date _____

Course offerings are subject to change semesters. Please 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** _____

_____ **At least 1 hour, Natural or Physical Sciences**, Choose from– Biology, Chemistry, **OR** Geology _____

_____ **Minor(s)** _____

COMPLETED **MAJOR SPECIFIC REQUIREMENTS**

| <i>Physics Requirements</i> | <i>Semester</i> | <i>Hrs</i> | <i>Grade</i> |
|--|-----------------|------------|--------------|
| PHY 211, Principles of Physics I (Prereq MTH 229) (Coreq MTH 230 & PHY 202) | All | 4 | _____ |
| PHY 202, General Physics Lab I (Coreq PHY 211) | All | 1 | _____ |
| PHY 213, Principles of Physics II (Prereq C or better in PHY 211 & 202) (Coreq PHY 204) | All | 4 | _____ |
| PHY 204, General Physics Lab II (Coreq PHY 213) | All | 1 | _____ |
| PHY 300, Electricity & Magnetism I (Prereq PHY 213 & MTH 231) | Alt years | 3 | _____ |
| PHY 302, Electricity & Magnetism II (Prereq PHY 300) | Alt years | 3 | _____ |
| PHY 308, Thermal Physics I (Prereq PHY 213 & MTH 231) | Alt years | 3 | _____ |
| PHY 320, Intro to Modern Physics (Prereq. PHY 213 & MTH 230) | | 3 | _____ |
| PHY 330, Mechanics (Prereq PHY 213 & MTH 231) | Alt years | 3 | _____ |
| PHY 442, Quantum Mechanics (Prereq PHY 331 & MTH 231) | Alt years | 3 | _____ |
| PHY 445, Mathematical Methods (Prereq PHY 213 & MTH 231) | Alt years | 3 | _____ |
| PHY 491/492 Capstone | | 2 – 4 | _____ |

Total Required Course Hours 33 – 35

_____ **Required by Major Electives – Eight additional hours of 300 – 499 Physics courses including at least two hours of advanced laboratory courses (PHY 304 & 405; 314 & 415, **OR** 462 & 463)**

PHY _____ PHY _____

PHY _____ PHY _____

Total Physics Hours 41 – 53

_____ **COMPLETED – MATHEMATICS** (Depends on ACT/SAT math scores. Note: Student can satisfy the requirements for a minor in Mathematics by completing **MTH 300** in addition to the courses listed.)

| | | | | | |
|----------------------|---|-------|---------------------------------|---|-------|
| MTH 229, Calculus I | 5 | _____ | MTH 231, Calculus III | 4 | _____ |
| MTH 230, Calculus II | 4 | _____ | MTH 335, Differential Equations | 3 | _____ |

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