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| Course Title/Number | **General Physical Science - 3740 - PS 109 - 203** |
| Semester/Year | Fall 2014 |
| Days/Time | Tues and Thur 7:00pm to 8:15 pm |
| Location | Science Building 277 |
| Instructor | Mr. David L. Adkins |
| Office |  |
| Phone | 304-824-6000 ext 2123 |
| E-Mail | [dvadkins@k12.wv.us](mailto:dvadkins@k12.wv.us) or [adkins20@marshall.edu](mailto:adkins20@marshall.edu) |
| Office/Hours | 4:30 to 5:00 S176 or after lecture upon request |
| University Policies | By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to <http://www.marshall.edu/academic-affairs/?page_id=802>  Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment |

**Course Description: From Catalog**

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| 109 General Physical Science. 3 hrs. I, S.  the course covers the basic principles and concepts of the universe including energy, and its various forms. Force, motion, electricity, magnetism, the wave theory of light and sound and astronomy are also studied. 3 hours. (PR: MTH 121, or MTH 121H, or MTH 123, or MTH 127, or MTH  130, or MTH 130H, or MTH 130E, or MTH 140, or MTH 203, or MTH 220, or MTH 225, or MTH 229, or MTH 229H; CR: PS 110L) |

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| **Course Student Learning Outcomes** | **Possible types of assignments used for each outcome.** | **Types of assessment used.** |
| Students will understand and comprehend relationships involving forces and equilibrium. They will also be able solve and understand questions involving motion. | **Mastering Physics Online Homework.** | Homework |
| Students will understand and be able to apply Newton’s three laws. | **Weekly posting to the discussion section on Engrade for the current chapter.** | Quizzes |
| Students will understand momentum, power,energy,impulse, and efficiency. Also be able to apply the idea of conservation | **Report discussing the relationships of the content to current major.** | **Tests** |
| Students will understand gravity, projectile motion, and the concepts of orbits. |  | **Final Exam** |
| Students will understand basic concepts of fluids, including but not limited to pressure, density, bouyancy. |  |  |
| Students will understand heat energy. This includes concepts about temperature, thermodynamics. |  |  |
| Students will understand the basic components of organic compounds and how to identify them and their properties. |  |  |
| Students will understand how heat energy can be transferred. |  |  |
| Students will understand the basic principles of electricity and circuits. They will also understand properties of magnetism. |  |  |
| Students will understand and apply basic laws involving waves. This is to include light and sound. |  |  |
| Students will understand the formation of the solar system. Students will link observations to planet formation and development. Students will compare and contrast the types of planets. Students will be responsible for feature and properties of the moon. |  |  |
| Students will be responsible for understanding the formation of a galaxy, star, and the life cycles of each. |  |  |
| Students will be responsible for understanding the structure of space and tiem. |  |  |

**Required Texts, Additional Reading, and Other Materials**

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| 1. Conceptual Physical Science 5th Ed. Hewitt, Suchocki,Hewitt with Mastering Physics |

**Course Requirements / Due Dates**

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| 1. Unit 1 Minimum 6 homework, 2 quizzes and 1 test week 1-5 2. Unit 2 Minimum 6 homework, 2 quizzes and 1 test week 6-10 3. Unit 3 Minimum 6 homework, 2 quizzes and 1 test week 11-15 |

**Grading Policy**

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| Grade Scale 90-A, 80-B, 70-C, 60-D  Homework 20%   1. Mastering Physics Online 2. Posting to Comment Section Engrade 3. Reports   Quizzes(6) 35%  Tests (3) 35%  Final Exam: 10%  There will be six quizzes one quiz grade will be excused.  The quizzes will be both announced and unannounced.  Three tests the third one coming during dead week. |

**Attendance Policy**

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| Attendance is mandatory. Role will be taken daily.  For an absence to be considered for excused information concerning it must be provided to instructor prior to next class meeting via voice mail or email.  Quizzes can only be made up if absence procedure is followed and it is completed in the lab period at 5:00 pm before the next lecture.  Homework will not be accepted late because it will be discussed the day it is due.  If you are going to be absent the day homework is due please try to scan it and email it to me, this is acceptable. |

**Approximate Course Outline**

Part 1 5 weeks 2 quizzes 1 test and homework

Chapters 1-5

Part 2 5 weeks 2quizzes 1 test and homework

Chapters 6-10

Part 3 5 weeks 2 quizzes 1 test and homework

Chapters 11.26.27. if time permits 28

Final Exam is cumulative

**Helpful Ideas**

Read the chapters before lecture. Ask questions!!!!!!!!!

Quizzes : These can be mixtures of short answer, math problems, multiple choice, true false.

Test: similar format to quizzes

Helpful tips for quizzes and test’s:

1. don’t memorize questions and responses
2. memorize concepts and applications
3. know all units of measure and variables
4. practice your math