**PS 109L – 501 2015 Summer II (5099) General Physical Science Lab Syllabus**

**Class Times:** MWF 9:00am – 11:00pm - Jun.08 – Jul.9 in Sci. 179 (except Jul.03 holiday).

**Attendance:** Attendance is mandatory. Absenteeism is highly frowned upon. Anything after 3 absences will result in failure for the course. Two tardies are considered as one absence. A tardy of 20 minutes or longer will be considered as an absence. If you miss an exam you must contact me before the next class meeting about a possible make-up.

**Instructor:** Vince George, Sci. 255 ; [george12@marshall.edu](mailto:george12@marshall.edu); [vgeorge@kcu.edu](mailto:vgeorge@kcu.edu); 304-417-9307. Office hours to be arranged.

**Course Description:** PS 109 General Physical Science Lab 1 hr

The course is intended to accompany PS 109 lecture. We will manipulate and watch physical processes, measure observable variables, compute conceptual quantities. After doing the in-class activities, answer questions about them on a separate “report sheet”, individually, to hand in for grading. You will observe the Sun, Moon, and Stars outside of class time, on separate sheets, to hand in for grading. You must pass (>60%) at least one of the exams to pass the course- Dept’ policy.

**Required:** lab manual, Bady’s physical science 109 &109L Lab Manual, fall 2013 edition; pen or pencil; notebook; calculator with x2; protractor for measuring altitude angles (of Sun, Moon, Stars); magnetic compass for finding direction on earth, and for detecting other magnetic fields; some free time at night after dark to observe the Moon & Stars, and their apparent motion.

**Recommended**: a positive attitude; lots of students in your future classes will call this fun. Preparation…. Read the lab manual before class, and study that topic more if you need to. Cooperation with your lab partner…. To make sure you both understand the subject.

Balance… between struggling to understand by yourself, and asking when you don’t.…. Discussion…. Question each other, comment on responses, explain your perspective.

**Overview:** Each lab’s activities will take nearly two hours for you and your lab partner to do. After all of the lab’s activities, you pick up a report sheet to be done by yourself and turned in the next day (so that it can be graded and returned to you at the next meeting). Astronomical observations when the objects are visible, which depends on time (predictable) but also on weather conditions (cloud cover is much less predictable). The Lab Exams will include hands-on activities that you will do alone (with no partner).

**Grade components** 10 regular Lab Reports x 4%each = 40% in class

5 Astronomy Reports x 2% each = 10% out-of-class

2 Lab Exams x 25% each = 50% must pass one

**Letter Scale**: 90 – 100 = A; 80 – 89 = B; 70 – 79 = C; 60 – 69 = D; 59 and below = F.

**Schedule:** This is Approximate and Tentative!

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| --- | --- | --- | --- | --- | --- |
| Week | Mon. | Tue. | Wed. | Thr. | Fri. |
| Jun.08 | **Lab 1**  (Calender)  (Night Sky#1) | Report 1 due (Sun#1) | **Lab 2** | Report 2  (Full Moon) | **Lab 3** |
| Jun.15 | **Lab 4**  Report 3  due | Report 4  due | **Lab 5** | Report 5 due | review  (Sun#2) |
| Jun.22 | **Exam 1** | ch. 5  gas density | **Lab 6**  Temperature | Report 6 due | **Lab 7**  (New Moon) |
| Jun.29 | **Lab 8**  Report 7  due | Report 8 due  (CyberSky#1) | **Lab 9**  electric charge | Report 9 due  (Night Sky#2) | ------- |
| Jul.06 | **Lab 10**  (CyberSky#2) | Report 10 due  (Sun#3) | All is due review | **Exam 2** |  |

**Statements that are valid for ALL Classes at Marshall:**

+ Academic dishonesty Policy: progress in science is founded on honesty and openness.

\_ no lying, no cheating, no stealing (plagiarism) – zero tolerance.

+ Incomplete Grade Policy: to receive an “I”, you must have completed ¾ of the course successfully (passing); course must be completed within 1 semester (by 2015 Dec.14).

+ Students with Disability policy: the student must initiate procedures to document a disability, then request accommodation, at the Office of Disability Services (Prichard 117).