**Living Systems**

**IST 111-Sec 101**

**Fall 2013**

Instructor: Matthew Chad Thompson

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Office Hours: As needed by appointment (Send me an email)

**Course Description**

Living Systems. 4 hrs.

This course is designed to equip students to observe and create their own questions, test them, and continue the process of scientific inquiry related to living systems. (Undergraduate Course Catalog Fall 2013-Spring 2014)

**Meeting Times and Locations**

|  |  |  |  |
| --- | --- | --- | --- |
| Class | 3:00 pm - 4:15 pm | MW | Science Building 200 |
| Lab | 10:00 am - 11:50 am | M | Science Building 200 |

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

*Bioinquiry***Edition: 3rd**

**Author:** Pruitt   
**ISBN:** 9780471473213  
**Copyright Year:** 2006  
**Publisher:** John Wiley & Sons, Incorporated

*Collapse*

**Author:** Diamond   
**ISBN:** 9780143117001  
**Copyright Year:** 2011  
**Publisher:** Penguin

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**Computer Requirements**

No special computer access. Any electronic requirements can be fulfilled using campus computers located in the Drinko Library. There will be portions of this class through MU ONLINE.

**Course Learning Outcomes** (Designed by Sam Colvin Fall 2012)

1. Students will be able to plan and execute a project. The project will be individualized toward their career goals. The project should be executed at a professional level using discipline specific knowledge.
2. In the development of their project, students will design an experiment or project employing the appropriate scientific or technical methods.
3. In the development of their project, students will analyze data in appropriate tabular and numeric form.
4. In the development and presentation of their project (individualized toward their career goals), students will show originality in both the development of purpose for the work and creativity in the design of the methods for the work.

# Purpose of Course

“Science is a series of interrelated questions created from past experience and observation. We then test a series of possible outcomes to determine which outcomes are the most likely and which are not feasible. From these tests, we attempt to predict additional outcomes or define new questions. This course is designed to equip the students to observe and create their own questions, test them and continue the process of scientific inquiry.” -Dr. Thomas Jones

**Course Evaluation**

Evaluation will be based on the following:

**Items to be evaluated Points**

Class Attendance and Participation 100

Exam 1 (Bioinquiry Chapters 1-8) 100

Exam 2 (Bioinquiry Chapters 9-16) 100

Quizzes 100

Finals Paper 100

Lab Attendance and Participation 100

Large Lab Report 100

Labs and Quizzes 200

Final Paper 100

Total: 1000

**All assignments turned in late will result in a decrease of score by 10% per day that the assignment is late.**

**Attendance Policy**

More then 3 unexcused absences will result in a drop in the Attendance and Participation portion of the student’s grade. Absences will only be excused using university excused absences provided through the office of Student Affairs.

# Marshall University Policies

* **Academic Dishonesty**
  + [Undergraduate and Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#AcademicDishonesty)
* **Excused Absences**
  + [Undergraduate](http://muwww-new.marshall.edu/academic-affairs/policies/#ExcusedAbsences)
* **University Computing Services’ Acceptable Use**
  + [Undergraduate and Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#UCS)
* **Inclement Weather**
  + [Undergraduate and Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#InclementWeather)
* **Dead Week**
  + [Undergraduate](http://muwww-new.marshall.edu/academic-affairs/policies/#DeadWeek)
* **Students with Disabilities**
  + [Undergraduate and Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#Disability)
* **Academic Dismissal**
  + [Undergraduate and Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#Dismissal)
* **Academic Forgiveness**
  + [Undergraduate](http://muwww-new.marshall.edu/academic-affairs/policies/#Forgiveness)
* **Academic Probation and Suspension**
  + [Undergraduate](http://muwww-new.marshall.edu/academic-affairs/policies/#ProbationUndergrad)
  + [Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#ProbationGrad)
* **Affirmative Action**
  + [Undergraduate](http://muwww-new.marshall.edu/academic-affairs/policies/#AAUndergrad)
  + [Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#AAGrad)
* **Sexual Harassment**
  + [Undergraduate and Graduate](http://muwww-new.marshall.edu/academic-affairs/policies/#Harassment)

All of these policies can be found at this address

[http://muwww-new.marshall.edu/academic-affairs/policies/ - AcademicDishonesty](http://muwww-new.marshall.edu/academic-affairs/policies/#AcademicDishonesty)

**Policy for Students with Disabilities:** Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities.  University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability.  Following this, the DSS Coordinator will send a letter to each of the student’s instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading.  The instructor and student will meet to discuss how the accommodation(s) requested will be provided.  For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 117, phone 304-696-2271.

# University Computing Services’ Acceptable Use Policy: All students are responsible for knowing this policy, which can be found on the web at <http://www.marshall.edu/ucs/CS/accptuse.asp>.

**Affirmative Action Policy**: This course will follow Marshall University’s policy on Affirmative Action, which can be found on p. 63 of the 2010 – 2011 undergraduate catalog <http://www.marshall.edu/catalog/undergraduate/ug_10-11_published.pdf>, or on p. 16 of the spring 2010 graduate catalog <http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf>. Specifically, all students will be afforded equal opportunity without regard to race, color, sex, religion, age, disability, national origin, or sexual orientation.

**Inclement Weather Policy:** Students can find information concerning Marshall’s policy regarding inclement weather on pp. 64 – 65 of the 2010 – 2011 undergraduate online catalog <http://www.marshall.edu/catalog/undergraduate/ug_10-11_published.pdf>, or on pp. 21 – 23 of the spring 2010 graduate catalog <http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf>.

(Note: A link has been added to the Assessment website which has the University Computing Services Acceptable Use Policy, the Affirmative Action Policy and the Inclement Weather Policy. Faculty are welcome to reference the following link <http://www.marshall.edu/assessment/Syllabus%20Information/University_Policies.doc>.

**Important Dates to remember**

|  |  |
| --- | --- |
| Date | Topics to be Covered |
| Mon, Jan 13 | Introduction/ Syllabus -Begin Reading *Bioinquiry* |
| Mon, Jan 13 | Begin Chapters from *Bioinquiry* |
| Fri, Jan 17 | Last day to drop class without withdraw |
| Mon, Jan 20 | No Class, Martin Luther King. Jr. Holiday |
| Wed, March 5 | Mid Semester. Look for Mid-Semester D-F grades after the 10th |
| Mar 17-Mar 22 | Spring Break- NO CLASS |
| Fri-Mar 28 | Last day to drop full Semester Individual Course |
| April 28- May 2 | Dead Week (YES, WE WILL HAVE CLASSES AND A QUIZ) |
| Wed May 5 | Final Paper due |
| Tue. May 13 | Deadline for Submitting Final Set of Grades |

Quizzes will be random throughout the semester. Quizzes cannot be made up without a University Excused Absence. Being late is not an excuse.

Exams will take place after material is covered in textbooks. PowerPoints will be available for Bioinquiry Chapters These need to be read before class material is covered.

Dates are subject to change by the instructor. Any University Excused Absences for tests or quizzes will need to be made up by appointment on the instructors schedule.