

Three Rivers Community College

Course Syllabus:

**ENV K265**

**Fundamental Measurements and Applications Lecture**

Fall 2008

This course will familiarize students with environmental analysis, instrumentation, and sampling methods. Students will have hands-on training and experience with various sampling equipment and techniques. Upon completion the students will understand the basic concepts necessary to choose and conduct environmental measurements in different scientific disciplines, be able to utilize computer applications to perform data analysis for laboratory and field work methods completed, and write laboratory reports.

FIELD WORK – dates TBD

**Lecture:** Thursday 5 – 5:50 PM

**Lab:** Thursday 6 – 9:50 PM

**Instructor:**

Anthony Trani

Phone: (860) 742-8201

Email: [atrani@trcc.commnet.edu](mailto:atrani@trcc.commnet.edu)

Diba Khan-Bureau

Phone: (860) 885-2383

Email: [DKhan-Bureau@trcc.commnet.edu](mailto:DKhan-Bureau@trcc.commnet.edu)

**Laboratory Assistant:**

Larry Turley

Email: [Lturley@Sonalysts.com](mailto:Lturley@Sonalysts.com)

**Textbook: No text required**

Data and supplementary information will be provided

**Required Items:**

3 Ring Binder

USB Flash Drive (Minimum 1 GB)

Ruler (flat for use with field book)

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Fundamental Measurements and Applications

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**Grading:**

Class Attendance and Participation	15%
Semester Project	40%
Laboratory	45%

**Late/Missed Work:**

All laboratory assignments are due the next week after the lab has been assigned. Any other assignments will be due on the day specified. After this time the assignment will not be accepted and you will receive a zero.

**Withdrawal:**

The last day to drop this class is September 15, 2008.

**Incomplete:**

An incomplete must be finished within 60 days of the last day of the semester.

**Disabilities:**

If you have a disability that may affect your class performance please come see me as soon as possible.

**Cheating/Plagiarism:**

Any student caught cheating or plagiarizing will receive a zero for that assignment.

Cheating is defined as the giving of assistance to another or the receiving of assistance from another person, another examination paper, other written material, or any source not explicitly permitted by the instructor, is cheating. Thus, you may not look at another's paper or answers; you may not show your paper or answers to another or leave your paper or answers around for others to look at; and, you may not verbally read or reveal your answers to another. It is also cheating to have access, without the instructor's approval, to examination, quiz, or test questions prior to the administration of the examination, quiz, or test.

Plagiarism is the submission or presentation of ideas or work in any form that are not one's own without appropriate acknowledgement of the source(s). Even with the acknowledgement, close paraphrasing can constitute plagiarism. You may quote the work of others if properly referenced.

## Proposed Course Outline, Field Work TBD

Week	Date	Topic
1	September 4	Laboratory Safety, Laboratory format, Introduction to Excel, Pace Calibration
2	September 11	Fundamentals of Measurements, Field Notes, GPS – Accuracy vs. Precision
3	September 18	Project Status Report (meet individually with students)
4	September 25	Introduction to Vernier
5	October 2	Stream Hydrograph
6	October 9	Vernier - Measure TDS, Temp, etc.
7	October 16	Forestry – Densimeters, DBH, tree core
8	October 23	Air Measurements – Humidity, Barometric Pressure
9	October 30	Bioassay introduction
10	November 6	Climate Change
11	November 13	Darcy's Law
12	November 20	Nitrates and Phosphates
13	November 27	Thanksgiving- NO CLASS
14	December 4	GIS Lab
15	December 11	GIS Lab
16	December 16/18	Project Presentations
17	December 23	Supplemental/Make-Up Class

\* RBV will be in October