

**Syllabus**  
**Three Rivers Community College**  
**MAT 167 – Principles of Statistics**  
**Summer 2008**

**Course Registration Number (CRN) – 50101 Sec. M81**  
**M&W 6:00-8:30 pm, NTHS (Mohegan) Campus, Rm.304**

For a copy of this syllabus, homework assignments, class announcements, etc,  
go to:

[http://www.trcc.commnet.edu/ed\\_resources/tasc/Burbine/CurrentClasses.htm](http://www.trcc.commnet.edu/ed_resources/tasc/Burbine/CurrentClasses.htm)

**Instructor:**

Matthew L. Burbine

Office: Mohegan TASC (Tutoring Center), located in the Shop Wing, next to the Writing Center

Office Hours: TBA. I will be in the TASC M-Th 11am-6pm but I will dedicate several hours per week solely to this class. The hours decided on in the first class are 5-6, Mondays and Wednesdays.

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**Course Description:**

This course introduces the basic concepts of statistics as they apply primarily to business, the technologies, and the social sciences. The topics include: methods of summarizing data, measures of central tendency and dispersion, correlation and linear regression, basic probability, binomial and normal distributions, hypothesis testing for one and two populations, confidence intervals, and distributions.

**Prerequisites:**

You must have successfully completed MAT 137, Intermediate Algebra, or have an acceptable placement score.

**Required Materials:**

The required text is Elementary Statistics, 10<sup>th</sup> Ed.; Triola, Mario F.; Boston, MA; Addison-Wesley; 2006.

You will also need to have a graphing calculator with statistical capabilities. I strongly urge you to get (buy, borrow, or whatever) a Texas Instruments TI 83+ or 84+ calculator, as this model is by far the best-suited one for this class and it is the one I will be using. You are free, however, to use any model or brand you like, but you will responsible for learning its use on your own.

## Attendance:

Attendance in classes is strongly recommended. Since this is a summer course, each class is nearly equivalent to an entire week of regular semester classes. So if you miss one class it is like missing a whole week and you will be at a disadvantage. If you miss two classes, you have missed too much material and you may be at severe risk of failing the class. *I will teach a class only once*; you are responsible for getting the class notes, homework, and any other assignments from another student and completing that work by the next week after any missed class. Also, short unannounced quizzes may be given and they cannot be made up.

**Attendance at exams is mandatory.** You will be informed of the dates of tests at least one week in advance. Make-up exams may be given *with my prior consent*. If you must miss an exam, please speak with me before the date of the exam so that arrangements can be made. Remember, *before the exam it's a reason, after the exam it's an excuse*.

## Grading Policy:

Throughout the semester there will be four 100-point exams. The last exam will not be a cumulative final. Another possible 100 points will distributed among various assignments and projects, quizzes, and class participation. 5 points will be deducted for each class that an assignment or project is late. The final grade will be determined by adding the total points earned and dividing by five. Letter grade equivalents are listed below:

Grade	Grade Points	Quality Points
A	93-100	4.0
A-	90-92	3.7
B+	87-89	3.3
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	63-66	1.0
D-	60-62	0.7
F	Below 60	0.0

## Homework:

Homework will be assigned each week. *Unless specified otherwise*, I will not collect homework. However, I may give an unannounced quiz at the beginning of class that is taken directly from the homework. It is in your best interest, then, to do at least the assigned problems, if not more. The more you do any math, the easier it becomes. I will try to answer any homework problems at the beginning of each class, but we may have to curtail this to fit our time limits.

### **College Withdrawal Policy:**

You may withdraw from this class any time up to and including July 25 and you will receive a *W* grade on your transcript. However, you must complete a withdrawal form in the Registrar's Office at the time of withdrawal; *if you merely stop attending classes you will be assigned a grade of F*. Any eligibility for refund of tuition is based on the date that the registrar receives the withdrawal.

### **Disabilities Statement:**

If you have a hidden or visible disability that may require classroom or test-taking modifications, please see me as soon as possible so arrangements can be made. If you have not already done so, please contact the Learning Specialist, Chris Scarborough, at 892-5751.

### **Academic Integrity:**

Academic integrity is essential to a useful education. Failure to act with academic integrity severely limits a person's ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. In this class and in the course of your academic career, present only your own best work; clearly document the sources of the material you use from others; and act at all times with honor. A full copy of the college's academic integrity policy is in the school's catalog and in the student handbook.

### **Resources:**

The Tutoring and Academic Success Center (TASC) is located in the Shop Wing of the Mohegan Campus, next to the Writing Center. TASC provides free **one-to-one or group tutoring** in math as well as in many other subject areas. TASC also has **textbooks** (both old and current), **videotapes**, and many **handouts** available for student use. Also, TASC's portion of the school's website has many links to other **online resources**; go to the TASC homepage at [http://www.trcc.commnet.edu/ed\\_resources/tasc/index.htm](http://www.trcc.commnet.edu/ed_resources/tasc/index.htm) and follow the link to "Online Resources."

Unfortunately, the free **online tutoring** available during the regular semesters is not available during the summer semester

In addition to my regular hours in the Tutoring Center, I will make myself exclusively available to students in this class for at least two hours per week (we will decide the time slot during the first class). Feel free to contact me any time, though, that you have a question.

Finally, one of your greatest resources is each other. I encourage you to get to know your classmates and **exchange contact information**.

**Cell Phone Use:**

Please turn off the ringer on all cell phones/pagers before the start of each class. If you have a situation where you absolutely must be able to take a call, please notify me before class.

“Do not worry about your difficulties with mathematics, I assure you that mine are greater.”

**Albert Einstein**

“Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write.”

**H. G. Wells**

## Course Outline:

We will cover the following sections of the text; this outline and the homework problems are subject to change, both in content and in order:

Chapter	Section	Homework Page	Homework Problems
1		36	1 – 12
2	2	48	5, 7
	3	55	5 – 8
3	2	86	5, 7, 9, 13, 25
	3	104	5, 9, 13, 17, 25, 33, 34
	4	116	5, 7, 9, 13
4	2	147	5 – 19 EO
	3	156	5, 7, 9, 10, 11, 12
	4	165	5, 7, 9, 11
	5	172	5, 11, 13, 15
	7	186	5 – 13 EO, 19, 21, 23, 29, 31
5	2	210	7, 17, 19
	3	220	15, 25, 27, 31, 33
	4	227	5, 9, 11, 13
6	2	257	9 – 39 EO
	3	266	5 – 17 EO, 23
	4	278	5, 7
	5	287	5 – 13 EO
7	2	332	5 – 23 EO, 31, 41
	3	345	5 – 17 EOO, 25, 27
	4	359	5 – 17 EOO
8	2	404	9 – 39 EO
	3	414	5, 9, 11
	4	423	5 – 13 EO
	5	431	13, 17, 19
9	2	463	9, 15, 17
	3	478	9, 13, 17
	4	489	5, 11, 15, 17
10	2		Project
	3		
	6		

