Probability and Statistics

2018-2019

# Instructor Information

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| Instructor | Email |  |
| **Michelle Kondracki** | MKondracki@iwacademy.org |  |

# General Information

## Description

Probability and Statistics is used in almost every career. It is a required class for most degrees, and studying statistics deeply can create endless opportunities for you. We will begin learning the basics about probability and its properties, then move to statistics learning about the descriptive branch of statistics, the central limit theorem, and sampling.

## Expectations and Goals

This is a senior level class and I expect you to take this class seriously. Complete homework when it is assigned to ensure that the class is ready to move on the next lesson. Participate and be respectful during class, and come prepared every day with required course materials. Remember to follow all school in the classroom.

If you are absent, feel free to e-mail me asking for filled in notes, worksheets, etc. to stay on top of the material. Schedule an open lab at the earliest time if you need to learn the lesson. If there was an assignment due on the day you were absent, it is due the first class day you are back.

Late assignments are graded for 50% of the earned grade, and if you do not turn them in by the end of the following LAP they will stay a 0%.

Please do not travel in groups to open labs. Only come to my open lab if you have math to work on, and please do not bring friends who do not have math to work on.

**Redo/Retakes**

Steps for redo

1. Complete original review
2. Correct mistakes and review with me
3. Create a study plan with teacher to prepare for the retake
4. **E-mail** your teacher when and where you want to take the retake **by 3:00pm the previous day**

# Course Materials

## Required Materials

These materials should be brought to class **every day**

* TI-84 graphing calculator
* Binder to keep notes, handouts, and homework organized
* Charged device

\*If you do not have a graphing calculator by then end of the first cycle, you will get a demerit. If you do not have one after the second cycle, you will get a detention. If it is difficult for your family to buy one at this time, please come talk to me ahead of time to avoid a demerit/detention

## Textbook

**Elementary Statistics 7th Edition**  Math XL, Ron Larson & Betsy Farber

[www.mathxlforschool.com](http://www.mathxlforschool.com)

Your e-mail (probably iwa) and password that you chose

# Course Schedule

| Lap  |  | Topic |  |
| --- | --- | --- | --- |
| Lap 1 |  | Chapter 3: Probability |  |
| Lap 2 |  | Chapter 4 & 5: Discrete and Normal Probability Distributions |  |
| Lap 3 |  | Chapter 1 & 2: Introduction to Statistics & Descriptive Statistics |  |
| Lap 4 |  | Chapter 6: Confidence Intervals |  |
| Lap 5  |  | Chapter 7: Hypothesis Testing with One Sample |  |
| Lap 6 |  | Chapter 8: Hypothesis Testing with Two Samples |  |
| Lap 7 |  | Chapter 9: Correlation and Regression |  |