

# MTH-160 – Basic Statistics Course Syllabus

## Course Code:

MTH-160

## Course Title:

Basic Statistics

## Course Description:

In this course; students will use elementary statistics to achieve statistical literacy. Emphasis is on interpretation and evaluation of statistical results. Broad topics include descriptive statistics; linear regression; basic probability theory and inferential statistics. Specific topics include describing data sets graphically and numerically; measures of center and spread; bivariate data and least squares regression; correlation; random variables; basic probability distributions; confidence intervals and hypothesis tests. A graphing calculator is required for this course. See the time schedule for current brand and model.

## Prerequisites:

Academic Reading and Writing Levels of 6; Academic Math Level 3

## Outcomes and Objectives:

[Please refer to the MTH-160 Master Syllabus](#)

## Required Text and Materials:

Please confirm edition with [WCC Website](#) or go to the WCC Bookstore and use the Find the Course Materials feature to view the required and recommended course materials: <https://washtenaw.bncollege.com/course-material/course-finder>

- Computer with high speed internet access. You will need it to access learning materials such as videos plus reinforcement assignments in the class Blackboard site, and you will complete homework and exams in the class ConnectMath online site.
- TI-83 Plus or TI-84 Plus graphing calculator. This course does not support other model calculators or software such as Excel, SPSS or R.
- ConnectMath Digital Access with eBook for Elementary Statistics, 3<sup>rd</sup> edition, by Navidi. Most of your graded work is done in the ConnectMath Digital Access with eBook product. You must register and enroll in our class section and purchase an access code to do homework and exams that are in ConnectMath.
  - **Best price option:** Purchase an access code directly from connectmath.com. Here is how:  
Go to [www.connectmath.com](http://www.connectmath.com) and click on new user, enter the 10-character course enrollment code XXXX-XXXXX, then click on continue. You will see a screen to enter a 20-character access code. On that screen there is a link to purchase an access code online. Click on the link and follow the instructions to make your purchase. Your access code will be emailed to you, and then you can enter it.

NOTE: This code gives you temporary access to Connect Math for a two-week period. Once the code expires, you will be locked out of your Connect Math account until you purchase a regular Student Access Code. It is highly recommended that you purchase the Student Access Code BEFORE the two weeks expire to prevent interruptions with your Connect Math account.

- WCC Bookstore option: **Purchase an access code** at the WCC Bookstore. Then follow the instructions given above to **register and enroll** in our section. When you reach the screen asking for a course access code, enter the code you purchased.

You must have the digital edition to take this course. If you want to have a printed copy in addition to the digital edition, log into your ConnectMath account for our course and go to the eBook (the link for the eBook is in the upper right). There you will find a link in the upper right to purchase at very low cost a 3-hole punched custom edition that will be delivered to you.

## **Course Overview and Structure:**

This course is intended to further students' mathematical knowledge of concepts and applications they might encounter in everyday adult life. Students will investigate topics including advanced consumer math (mortgage interest, investing, and credit cards), probability, graphs and statistics (including the normal curve), basic logic, and the algebra of functions.

**Note:** Although it fulfills many degree requirements, and the MTA, this course does not change your math level; it is not a prerequisite to MATH 160, 169, 176 etc.

### **Course Goals**

1. Interpret common statistical concepts and demonstrate critical consumption of statistical information.
2. Interpret, plan, produce and apply descriptive statistics.
3. Interpret and apply probability, discrete probability distributions and common continuous probability distributions.
4. Interpret, plan, produce and apply inferential statistics.

### **Proctored Final Exam Requirement**

Department policy requires every online student to take a common online ConnectMath final exam that is given in a proctored setting, and students must score at least 40% on it as an eligibility requirement for passing the course.

### **Course Format**

This class is fully online and is not self-paced. The class does not come with the option to start late, but you do have the option to work ahead if you would like. If you have special circumstances, you must discuss them with me before committing to the class.

### **Time Commitment**

Expect to spend 8-10 or more hours per week for this 4-credit, 15-week class.

## **My Availability**

Email is the most efficient way to contact me. I usually respond to emails within 12-24 hours (weekends may require more time). Due to federal privacy laws, I am only permitted to correspond with you using your WCC email address. Please check your WCC email on a regular basis as well. You can have it forwarded. Go to: WCC website > Current Students > Computing > Email

## **Communication**

### ***General Communication Guidelines***

- Be courteous and professional in your communications.
- Use complete sentences and avoid using abbreviations.

### ***Individual and Group Communication***

- If several students have the same question or issue, I may post an announcement rather than responding individually.

### ***Email Communication***

- Send emails from your WCC account to be in compliance with [federal privacy regulations](#).
- Remember that I teach several different classes and have many students. Provide a clear subject line that includes the course name, section number, and the assignment name. For example, "Stats 160 Section D01/D02 Homework 2"
- Always include your first and last name in the email message itself. I often have more than one student with the same first or last name.

## **Official Recognition to Remain in the Class**

Review the syllabus and schedule, then complete the following *mandatory* eligibility items:

1. Complete the **Course Orientation Quiz** after reading the Syllabus and Schedule.
2. Introduce yourself in **Re/App 0** (the introductory Reinforcement Application).
3. Purchase your ConnectMath access code and register and start your account.

These three items must be done within the first week of the course to make your status official—otherwise you may be dropped.

## **Starting the Class**

After you complete the mandatory recognition items, you are ready to study.

1. Get started on Module 1 in the Learning Units area in Blackboard.
2. Get your TI-83 Plus or TI-84 Plus graphing calculator and be ready to use it in Module 2.

## **Strategies for Success**

- Print out the course schedule/due date calendar and follow it.
- Check for new announcements within the Blackboard course a couple times per week.
- Begin assignments *well before* the due date so you can ask questions and have time to troubleshoot any technical issues.

- Stay in touch by email if you have any questions or concerns.

### **Grading**

Re/Apps in Blackboard are typically graded within a week of the due date. Most ConnectMath scoring is shown immediately. Important: ConnectMath **does not** show your total course grade—it only shows totals for items within ConnectMath. Grades from ConnectMath are transferred regularly to Blackboard where overall course grades are updated and posted under 'My Grades.'

### **What a Typical Module Looks Like**

This class is organized into 3 Units totaling 10 Modules. Modules are *not equal* in the time required: some are more time consuming than others. A module *cannot* be completed in an hour or two. The study for a module consists of watching WCC YouTube and/or ConnectMath videos and reading corresponding material in the ConnectMath eBook (or your printed copy, if you get one). Then you can do unlimited, practice on the ConnectMath Practice for the module. Each Module Practice and Exam Review (blue assignments in Connect) is worth 2 bonus points with a score above 80%. You can earn up to a maximum of 20 bonus points on these blue EC assignments, and this will be added to your grade at the end of the semester. In addition, you will find supplemental resources for more help in ConnectMath.

The required graded work for each module consists of:

1. A **ConnectMath Homework Assignment worth 20 points**. Each homework assignment may be attempted twice, and each open response question permits two tries. Because these homework assignments differ in length and difficulty, they are opened early so you can work ahead.
2. A **Blackboard Reinforcement Application (Re/App) worth 10 points**. Re/Apps are of varied types, including short discussion and writing assignments, summary statistical analyses, decision trees and multiple choice/short answer question sets.

Important: You will be allowed one extension on any ConnectMath Homework Assignment. Otherwise, late work is not accepted and will result in a score of zero.

### **Unit and Course Review Homework and Exams in ConnectMath**

At the end of each of the 3 units there is an optional Exam Review Practice (worth 2 bonus points with a score above 80%) and a graded Unit Exam worth 100 points. At the end of the course there is an optional Final Exam Review Practice (worth 2 bonus points with a score above 80%) and a graded Final Exam worth 100 points.

- Each **Unit Exam** is time limited, open course text/notes, and may be attempted twice.
- The **Final Exam** is time limited, open course text/notes, may be attempted twice, and you must score at least 40% or you do not qualify to pass the course, regardless of your other grades.

**Important:** All exams are required and must be completed on time as scheduled.

### **Your Grade**

All your work is must be done in accordance with the requirements of academic honesty. Failure to meet those requirements will be reported to the dean and may

result in course failure. Please use the Blackboard gradebook to view your current overall grade each week since the scores for all module components will be posted there for you to track! Your final course grade will be determined by the points you earn divided by the total points possible.

Graded Items	Points	Possible
Unit Exams	3 @ 100 points each	300 points
Connect Homework Assignments	10 @ 20 points each	200 points
Re/Apps (on Blackboard)	11 @ 10 points each	110 points
Final Exam**		100 points
		<b>TOTAL = 710 points</b>
** You must get a 40% or higher on the final exam in order to pass the class.		
** <b>The maximum number of bonus points from blue practice/exam review assignments in Connect is 20.</b>		

### ***Withdrawal Grades***

You are required to abide by all drop/add/payment dates as detailed in WCC publications. I will not withdraw any students who have not communicated with me about a withdrawal prior to the end of the semester.

### ***Additional Help***

- Check for supplemental materials in Blackboard or in ConnectMath (Resources tab).
- Check for availability of Virtual Tutoring through Blackboard.
- Connect Technical Support: (800) 258-2374.
- Blackboard Helpdesk: (734) 973-3456.

### **Academic Integrity:**

Plagiarism and other forms of academic dishonesty will result in discipline according to the [WCC Student Rights & Responsibility guidelines](#). Always complete your own work using your own words. If you do use information, ideas, or words from other sources, credit that source using MLA or APA format.

### **Accommodation of Special Needs:**

[Learning Support Services Department](#) provides support to students who may need accommodation for documented disabilities, or other learning need. WCC will work with you to accommodate any of your individual learning needs, however, I need to know of any requests in advance in order to make the necessary arrangements.

### **WCC Student Policies and Support Information:**

Review the material within the Washtenaw Community College Student Policies and Support Information for additional policies and procedures that affect you and your course. Find this information [on this shared page](#).