**Marshall University**

**Syllabus Template**

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| **Course Title/Number** | Mathematical Concepts and Applications (CT) MTH 121 – 202 CRN 4085 |
| **Semester/Year** | Spring 2015 |
| **Days/Time** | MWF 10:00 – 10:50 am |
| **Location** | CH436 |
| **Instructor** | Ms. Tracy Marsh |
| **Office** | SH 526A |
| **Phone** | (304) 696 – 3016 |
| **E-Mail** | Marsh9@marsall.edu |
| **Office Hours** | T R 9 am – 12 pm |
| **University Policies** | By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [www.marshall.edu/academic-affairs/policies/](http://www.marshall.edu/academic-affairs/policies/). Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment |

**Course Description:**

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| Critical thinking course for non-science majors that continues developing quantitative reasoning skills from Quantway I. Topics include logical thinking, problem solving, linear modeling, beginning statistics and probability, exponential and logarithmic modeling, and financial concepts. |

**After completing the course, the student will be familiar with the specific background and critical thinking skills needed to understand the major issues they will face in life. Specifically:**

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| **Course student learning outcomes** | **How you will practice each outcome in this course** | **How student achievement of each outcome will be assessed in this course** |
| Students will develop strong critical and logical thinking skills to navigate the media and be an informed citizen. | Homework, classwork | Homework, tests |
| Students will Students should have a strong number sense and be proficient in estimation so they can put numbers from the news into a context that makes them understandable. | Homework, classwork | Homework, project, tests |
| Students will be able to read news reports of statistical studies in a way that allows them to evaluated them critically and decide whether they should affect their personal beliefs. | Homework, classwork | Homework, tests |
| Students will be familiar with basic ideas of probability and risk, and be aware of the impact on their lives. | Homework, classwork | Homework, tests |
| Students will possess the mathematical tools needed to make basic financial decisions. | Homework, classwork | Homework, project, tests |
| Students will understand how mathematics helps them study important social issues, such as the growth of populations, the depletion of resources, and the extermination of flora and fauna. | Homework, classwork | Homework, tests |

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

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| * **The textbook will be posted in the MUOnline Content page for the class to use inside and outside of the classroom. It is required that you print a copy for yourself and keep them in a 3-ring binder to help organize your information acquired in class.** * MyQuantway.org is the online homework tool and access will be provided to the student for free. Students are required to have access to a computer and internet outside of class. * Scientific calculator with a [] or [^] , [] or [], and [LOG] and [LN] keys. I suggest TI 30X IIS (you can see the operations on the screen). Students may not utilize cell phones as calculators during tests. |

**Course Requirements/Due Dates**

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| * **Prerequisites:  MTH 098Q or MTH 099 or Math ACT 19 or above** * **Approximate due dates can be found in the Course Schedule at the end of this syllabus.** * **Exact due dates can be found in the calendar on MyQuantway.org** |

**Grading Policy**

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| |  |  |  | | --- | --- | --- | | **Category** | **% of Grade** |  | | In-Class Exams | 40% |  | | Comprehensive Final Exam | 25% |  | | Online Homework Tool | 20% |  | | Take-home Activities/Projects | 10% |  | | Participation | 5% |  |   The following point totals will assure the accompanying letter grade:  90% A 80% B 70% C 60% D Below 60% F  The grading scale is rigid. Students will receive the grade that they earn from the work that they do. |

**Attendance Policy**

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| Students are expected to attend and participate in **each** class. If a student misses more than *three* classes he/she will be penalized 2 points on his/her final class grade for each ***unexcused*** absence beyond the three allotted. **Seven** *unexcused* absences will result in an automatic letter grade of ***F***. ***See me to get absences excused immediately! After one week absences are not excusable.***Students must request permission to take a make-up exam **prior** to the exam and only for a very serious reason. Makeup exams will be given to students outside of class time at the convenience of the instructor. |

**Homework/Projects**

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| * Homework is to be completed on MyQuantway.org as the material is covered in class. Dates will be set for the OCE and PNLs. Make sure to check the calendar in MyQuantway for due dates as they are subject to change. These assignments are necessary to prepare for and complete work that will be done in class. * **Take home assignments and projects** will be assigned and are expected to be completed by the given due date. One of these assignments will be uploaded as an artifact into the university’s GEAR assessment website as part of the CT requirement for the class. These assignments will be discussed in class and will be collected. The general due date for Projects will be on Friday of the week they are due. |

**Classroom Etiquette**

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| **During class, cell phones must be turned off and out of sight**. Please make me aware ahead of time if you need access to these devices. If I determine that cell phones are becoming a problem during class time, I will give the class a quiz over all recent topics daily until cell phones are no longer an issue. |

**Course Schedule –** See *MTH121Q - 202 Course Calendar*