**Marshall University**

**Syllabus**

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| Course Title/Number | Introductory Statistics (CT) / STA 225-208 |
| Semester/Year | Spring 2018 |
| Days/Time | TR, 0930a - 1045a |
| Location | KANGC 217 |
| Instructor | Vincent Smith |
| Office | GC 326F |
| Phone | N/A |
| E-Mail | [smith2199@marshall.edu](mailto:smith2199@marshall.edu) |
| Office/Hours | |  | | --- | | Wednesday 11-12 and 1-3 Tuesday/Thursday 10:45 – 12 or by appointment | |
| 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  **Academic Dishonesty:** If a student behaves academically dishonest in any way, i.e. copying/turning in another’s work or cheating on quizzes or exams, I reserve the right to fail the individual. The behavior may be reported to the department chair and/or dean of the college and could result in expulsion from the university. Please refer to your handbook for further details.  **Disabilities and/or Special Needs:** If any students have a disability and/or special need that interferes with their involvement in the classroom, they must see the Office of Disability Services, Prichard Hall 117, phone 304-696-2271. Appropriate accommodations can then be made.  **Inclement Weather Policy:** Students can find information concerning Marshall’s  policy regarding inclement weather on pp. 64-65 of the 2010-  2011 undergraduate online catalog  http://www.marshall.edu/catalog/undergraduate/ug\_10-  11\_published.pdf. |

**Course Description: From Catalog**

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| This course covers topics in basic probability, descriptive statistics, fundamental statistical inference procedures  involving estimation and hypothesis testing for a variety of situations with wide applications.  The principle objective of the course is to cover fundamental probability and statistics that can be useful in a  wide variety of fields |

**The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.**

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| **Course Student Learning Outcomes** ( | **How students will practice each outcome in this Course** | **How student achievement of each outcome will be assessed in this Course** |
| **1: Integrative Thinking:**  Students will **make connections** and **transfer** skills and learning among varied disciplines, domains of thinking, experiences, and situations. | Students are assigned homework containing word problems from different disciplines. | Students will be assessed using five exams. |
| **2: Communication Fluency** - Students will **develop** cohesive oral, written, and visual communications **tailored** to specific audiences. | Students will complete several drafts of the comparison project. | Students will complete the Comparison Project. |
| **3: Inquiry Based Thinking** - Students will **formulate** focused questions and hypotheses, **evaluate** existing knowledge, **collect** and **analyze** data, and **draw** justifiable conclusions. | Students will complete several drafts of the comparison project. | Students will complete the comparison project. |
| **4: Metacognitive Thinking** - Students will **evaluate** the effectiveness of a project plan or strategy to **determine** the degree of their improvement in knowledge and skills. | Students are assigned homework and allowed to correct their homework as needed. | Students will be assessed using five exams. |
| **5: Quantitative Thinking** - Students will **analyze** real‐world problems quantitatively, **formulate** plausible estimates, **assess** the validity of visual representations of quantitative information**,** and **differentiate** valid from questionable statistical conclusions. | Students are assigned homework with word problems. | Students will be assessed using five exams. |

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

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| Title: Elementary Statistics: A step by step approach (A Brief Version), 7th edition.  Author: Allen G. Bluman  ISBN: 978‐0‐07‐772058‐2  Publisher: McGraw‐Hill, New York, NY.  Calculator: You will need a TI-30X IIS or similar basic calculator. Most rigorous computational work will be done using SPSS.  Computer: You will need to use MUOnline to check your grades and email. You will also need access to SPSS. All computers on campus should have a copy of SPSS installed. To do some homework assignments, you must use SPSS. |

**Course Requirements / Due Dates**

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| 1. All due dates can be found on the course schedule. |

**Grading Policy**

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| **Student Assessment:** Students will be assessed using various methods such as assigned  homework, exams, quizzes and a comparison project. Homework will be due on exam days. Quizzes are due at the beginning of the next class period after they are assigned. Quizzes may be turned in late via email/in-person by the end of the day for a point deduction. The Comparison Project will have three different due dates for different drafts of the project.  **Exams:** 10% each = 50% total (NOTE: The final exam is non-comprehensive and weighted the same as each other exam)  **Quizzes:** 10%  **Homework:** 25%  **Project:** 15%  **Grading Scale:** 100% - 90% A  89% - 80% B  79% - 70% C  69% - 60% D  59% and below F  **Note:** Please note that an incomplete cannot be given unless the student completes 75% of the course. |

**Attendance Policy**

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| Students are expected to attend all scheduled classes. It is the student’s responsibility to find out what was  discussed in a missed class. Although, attendance records will not be used to compute grades (except possibly in  borderline cases), however, missing class can be expected to significantly reduce your chances of success. Note  also that it is the student’s responsibility to present approved notice of any absence that would be excused  under the terms and regulations stipulated by the university to make up any assignments missed. |

**Student Behavior**

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| **Please ensure that other students are respected. Students are advised to turn their cell phones and other noise generating devices off prior to entering the class. In the case where a student awaits any emergency call, the noise should be restricted and made personal. In this case, I should be notified as soon as the student enters the class. Drinks must had a lid and be kept on the ground at all times. The reading of unrelated materials while the class is in session is prohibited.** |

**Tutoring Services**

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| Video tutoring and In-person tutoring on the South Charleston is available. Please contact Jennifer Henning at 304-746-2079 or [henning@marshall.edu](mailto:henning@marshall.edu).  I strongly suggest you take advantage of these **FREE** services. |

**Course Schedule (tentative):**

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| Week | Monday | Tuesday | Wednesday | Thursday |  |
| 1 |  | Syllabus and Basic SPSS |  | 1-1, 1-2, 1-3, 1-4 |  |
| 2 |  | 2-1, 2-2, SPSS  Quiz 1 Given |  | 2-3, 2-4, SPSS |  |
| 3 |  | 3-1, 3-2 |  | 3-3, SPSS |  |
| 4 |  | Review  **Project Draft 1 Due** |  | **Exam 1** |  |
| 5 |  | 4-1, 4-2 |  | 4-3, 4-4  Quiz 2 Given |  |
| 6 |  | 5-1, 5-2 |  | 5-3 |  |
| 7 |  | Review |  | **Exam 2** |  |
| 8 |  | 6-1, 6-2 |  | 6-3, 6-4  Quiz 3 Given |  |
| 9 |  | 7-1, 7-2 |  | 7-2/SPSS, 7-3 |  |
| 10 |  | Review  **Project Draft 2 Due** |  | **Exam 3** |  |
| 11 |  | 8-1 |  | 8-2  Quiz 4 Given |  |
| 12 |  | 8-3/SPSS, 8-5 |  | 9-2/SPSS, 9-5/SPSS |  |
| 13 |  | 9-3/SPSS |  | Review  **Final Project Due** |  |
| 14 |  | **Exam 4** |  | 11-1/SPSS, 11-3/SPSS |  |
| 15 |  | 10-1/10-2/10-3/SPSS |  | Finish Ch10/Review  Quiz 5 Given |  |
| Finals Week |  | **Final: Exam 5 - 8 am**  **Tentative Time** |  |  |  |

Note: If class is cancelled due to inclement weather, there may be an alternative/online assignment posted to MUOnline/sent via email.