**Marshall University**

**Syllabus**

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| Course Title/Number | Concepts and Applications (CT) / MTH 121-131/ CRN: 4741 |
| Semester/Year | Fall 2016 |
| Days/Time | MWF 12-12:50 pm |
| Location | KANAC 103 |
| Instructor | Vincent Smith |
| Office | TBD |
| Phone | TBD |
| E-Mail | [smith2199@marshall.edu](mailto:smith2199@marshall.edu) |
| Office/Hours | 12-2 TR, 1-2 MWF |
| 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 is a critical thinking course for non-science majors. Topics include logical thinking, problem solving, linear modeling, beginning statistics and probability, exponential and logarithmic modeling, and formula use. Please note that this class meets a Core I/Critical Thinking requirement. |

**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 Outcomes** | **TLAs (How Practiced?)** | **Resources** | **Assessments** |
| 1. Communication Fluency - Students will **develop** cohesive oral, written, and visual communications **tailored** to specific audiences. | Students will complete a draft of a budget for themselves. | Textbook and Calculator | Students will complete a Budget Project. |
| 2. Inquiry Based Thinking - Students will **formulate** focused questions and hypotheses, **evaluate** existing knowledge, **collect** and **analyze** data, and **draw** justifiable conclusions. | Students will complete a draft of a budget for themselves. | Textbook and Calculator | Students will complete a Budget Project. |
| 3. 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. | Textbook and Calculator | Students will be assessed using six exams and a final. |
| 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 take short quizzes. | Textbook and Calculator | Students will be assessed using six exams and a final. |
| 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 basic computational problems and word problems. | Textbook and Calculator | Students will be assessed using six exams and a final. |

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

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| 1. The required text is Using and Understand Mathematics: A Quantitative   Reasoning Approach by Jeffrey Bennett and William Briggs, 6th Edition.   1. Students are required to have a scientific calculator. However, most calculations can be done simply with a pencil and piece of paper. 2. Students must also have a way to access their Marshall email account. |

**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, and a budget project. Homework will be due after the completion of each chapter.  **Exams:** 5% each = 40% total  **Final:** 20%  **Homework:** 20%  **Project:** 20%  **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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| Attendance will not be taken, but students are strongly urged to attend since points may be  lost by not turning in assignments and/or missing quizzes and exams. Quizzes/Tests and assignments can  only be turned in and/or made up if the student is present or has a university excused absence. Please  consult your handbook for excused absences and the required documentation for excuses.  When in attendance I expect each student to behave respectively. You must not only have respect for me,  but respect for your fellow classmates as well. If your actions become disruptive or distracting for me  or another student, you will be asked to cease your behavior. If you choose to continue, you will be  asked to leave. Disruptive behaviors may include, but are not limited to, the following: cell phone use  in class, talking during class, and the use of mp3 players during class. |

**Tutoring Services**

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| Video tutoring on the South Charleston is available. Please contact Jennifer Henning at 304-746-2079 or  [henning@marshall.edu](mailto:henning@marshall.edu). In-person tutoring services are available on the Huntington Campus in Smith Music Hall  115 daily.  I strongly suggest you take advantage of these **FREE** services. |

**Course Schedule (tentative):**

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| Week | Monday | Tuesday | Wednesday | Thursday | Friday |
| 1  August 22-26 | Syllabus and Introductions |  | **Discuss Project 1**  1B  1B Hmwk: 19, 21, 31, 51,55,59, 65 |  | 1C  1C Hmwk: 15,19,21, 29,33,37,43,55, 59 |
| 2  August 29-Sept 2 | 1D  1D Hmwk: 15,17,23, 27, 29-39 odd |  | Ch 1 Hmwk Due  **Test 1** |  | 2A  2A Hmwk: 13,19,23, 41,45,49,57,63,69,75 |
| 3  Sept 5-9 | University Closed – Labor Day |  | 2B  2B Hmwk: 15,23,25, 31,33,35,37,43,45,53 |  | 2C  2C Hmwk: 7-15 odd |
| 4  Sept 12-16 | Ch 2 Hmwk Due  Review |  | **Test 2** |  | 3A  3A Hmwk: 17,19,21, 29,49,51 53,69,71,75 |
| 5  Sept 19-23 | 3B  3B Hmwk: 17,19,25, 27,41,43,45,47,49,51 |  | 3C  3C Hmwk: 15-33 odd |  | Ch 3 Hmwk Due  **Test 3** |
| 6  Sept 26-30 | 4A  4A Hmwk: 21,23,25, 27,31,33,41,43 45,51 |  | 4B  4B Hmwk: 33,45,55, 63 65,67,71,75,85,87 |  | 4B cont. |
| 7  October 3-7 | 4C  4C Hmwk: 15-33 odd |  | 4D  4D Hmwk: 15,17,19, 21,23,27 29,33,37,39 |  | **Project 1 Due**  Ch 4 Hmwk Due  Review |
| 8  October 10-14 | **Test 4**  Midterm Grades Due (before test 2) |  | 5A  5A Hmwk: 15,17,27, 29,31,33,35,37,47,49 |  | 5B  5B Hmwk: 9-27 odd |
| 9  October  17-21 | **Midterm Grades Due**  5C  5C Hmwk: 15-33 odd |  | Ch5 Hmwk Due  **Test 5** |  | 6A  6A Hmwk: 13-31 odd |
| 10  October 24-28 | 6B  6B Hmwk: 15,17 |  | 6B cont. |  | **Last Day to Drop**  6C  6C Hmwk: 19,21,23, 25,29 31,33,37,41,43 |
| 11  October  31-Nov 4 | 6D  6D Hmwk: 15,17 19, 21,25,27,29,33,35,39 |  | Ch 6 Hmwk Due  **Test 6** |  | 7A  7A Hmwk: 15,19 21, 23,25,27,31,35,37,47 |
| 12  Nov 7-11 | 7B  7B Hmwk: 13-31 odd |  | 7C  7C Hmwk: 13-31 odd |  | 7E  7E Hmwk: 15-33 odd |
| 13  Nov 14-18 | Ch7 Hmwk Due  Review |  | **Test 7** |  | 8A  8A Hmwk: 9-27 odd |
| 14 | Thanksgiving Break |  | Thanksgiving Break |  | Thanksgiving Break |
| 15 Nov 28-Dec 2 | 8A cont. |  | 8C  8C Hmwk: 13-31 odd |  | Ch8 Hmwk Due  **Test 8** |
| 16 Dec 5-9 | Dead Week  Review? | Dead Week | Dead Week  Review? | Dead Week | Dead Week  Review? |
| Finals Week | Study! |  | Study! |  | **Final**  10:15-12:15 |
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