

**Marshall University  
Syllabus**

Course Title/Number	Concepts and Applications (CT) / MTH 121-107/ CRN: 2972
Semester/Year	Fall 2016
Days/Time	TR 8-915
Location	SH 514
Instructor	Jessica (Briscoe) Johnson
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University Policies	<p>By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to <a href="http://www.marshall.edu/academic-affairs">www.marshall.edu/academic-affairs</a> and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to <a href="http://www.marshall.edu/academic-affairs/policies/">www.marshall.edu/academic-affairs/policies/</a>. 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</p> <p><b>Academic Dishonesty:</b> 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.</p> <p><b>Disabilities and/or Special Needs:</b> 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.</p> <p><b>Inclement Weather Policy:</b> Students can find information concerning Marshall’s policy regarding inclement weather on pp. 64-65 of the 2010-2011 undergraduate online catalog <a href="http://www.marshall.edu/catalog/undergraduate/ug_10-11_published.pdf">http://www.marshall.edu/catalog/undergraduate/ug_10-11_published.pdf</a>.</p>

**Course Description: From Catalog**

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.

Course Outcomes	TLAs (How Practiced?)	Resources	Assessments
1. Communication Fluency - Students will <b>develop</b> cohesive oral, written, and visual communications <b>tailored</b> to specific audiences.	Students will complete a draft of a budget for themselves.	Textbook and Calculator	Students will complete a Budget Project (GEAR upload).
2. Inquiry Based Thinking - Students will <b>formulate</b> focused questions and hypotheses, <b>evaluate</b> existing knowledge, <b>collect</b> and <b>analyze</b> data, and <b>draw</b> justifiable conclusions.	Students will complete a draft of a budget for themselves.	Textbook and Calculator	Students will complete a Budget Project (GEAR upload).
3. Integrative Thinking - Students will <b>make connections</b> and <b>transfer</b> 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 three exams and a final.
4. Metacognitive Thinking - Students will <b>evaluate</b> the effectiveness of a project plan or strategy to <b>determine</b> 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 three exams and a final.
5. Quantitative Thinking - Students will <b>analyze</b> real-world problems quantitatively, <b>formulate</b> plausible estimates, <b>assess</b> the validity of visual representations of quantitative information, and <b>differentiate</b> valid from questionable statistical conclusions.	Students are assigned homework with basic computational problems and word problems.	Textbook and Calculator	Students will be assessed using three exams and a final.

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

1. The required text is Using and Understand Mathematics: A Quantitative Reasoning Approach by Jeffrey Bennett and William Briggs, 6<sup>th</sup> Edition.
2. Students are required to have a scientific calculator with a  $y^x$  or  $x^y$  or  $^$  key. However, most calculations can be done simply with a pencil and piece of paper.
3. Students must also have an MU computer account for email.

### Course Requirements / Due Dates

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

## Grading Policy

**Student Assessment:** Students will be assessed using various methods, such as assigned homework, quizzes, and exams. There will also be one project to be completed and uploaded to GEAR. Homework will be due after the completion of each chapter. It will be graded and returned promptly for the students' review before each test. Quizzes will be given after the submission of homework assignments, except on weeks when an exam is scheduled. There will be a total of three exams and one final.

<b>Grading Scale:</b> 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

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 respectfully. 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 iPods or mp3 players during class.

## Tutoring Services

Tutoring services are available in Smith Music Hall 115 daily. The schedule will be posted on the door after the first week of classes. I strongly suggest you take advantage of this **FREE** service.

**Course Schedule (tentative):**

Week	Monday	Tuesday	Wednesday	Thursday	Friday
Aug 22-26		Syllabus and Introductions		<b>Discuss Project 1</b> 1B & 1C <u>1B Hmwk:</u> 13,17,19,29,31,37,49,51,57,59 <u>1C Hmwk:</u> 15,19,21,29,33,37,43,53,55,59	
Aug 29-Sept 2		1D <u>1D Hmwk:</u> 15,17,23,27,29-39 odd		Ch 1 Hmwk Due <b>Quiz 1</b> 2A <u>2A Hmwk:</u> 13,19,23,41,45,49,57,63,69,75	
Sept 5-9	<b>University Closed</b> No Class	2B & 2C <u>2B Hmwk:</u> 15,23,25,31,33,35,37,43,45,53 <u>2C Hmwk:</u> 7-15 odd		Ch 2 Hmwk Due Review	
Sept 12-16		<b>Test 1</b>		3A & 3B <u>3A Hmwk:</u> 17,19,21,29,49,51,53,69,71,75 <u>3B Hmwk:</u> 17,19,25,27,41,43,45,47,49,51	
Sept 19-23		3C <u>3C Hmwk:</u> 15-33 odd		Ch 3 Hmwk Due <b>Quiz 2</b> 4A <u>4A Hmwk:</u> 21,23,25,27,31,33,41,43,45,51	
Sept 26-30		4B <u>4B Hmwk:</u> 33,45,55,63,65,67,71,75,85,87		4C & 4D <u>4C Hmwk:</u> 15-33 odd <u>4D Hmwk:</u> 15,17,19,21,23,27,29,33,37,39	
Oct 3-7		<b>Project 1 Due</b> Ch 4 Hmwk Due Review		<b>Test 2</b>	
Oct 10-14	<b>Midterm Grades Due</b>	5A & 5B <u>5A Hmwk:</u> 15,17,27,29,31,33,35,37,47,49 <u>5B Hmwk:</u> 9-27 odd		5C <u>5C Hmwk:</u> 15-33 odd	
Oct 17-21		Ch5 Hmwk Due <b>Quiz 3</b> 6A <u>6A Hmwk:</u> 13-31 odd		6B <u>6B Hmwk:</u> 15,17	
Oct 24-28		6C <u>6C Hmwk:</u> 19,21,23,25,29,31,33,37,41,43		6D <u>6D Hmwk:</u> 15,17,19,21,25,27,29,33,35,39	<b>Last Day to Drop</b>
Oct 31-Nov 4		Ch 6 Hmwk Due <b>Quiz 4</b> 7A <u>7A Hmwk:</u> 15,19,21,23,25,27,31,35,37,47		7B & 7C <u>7B Hmwk:</u> 13-31 odd <u>7C Hmwk:</u> 13-31 odd	
Nov 7-11		7E <u>7E Hmwk:</u> 15-33 odd		Ch7 Hmwk Due Review	
Nov 14-18		<b>Test 3</b>		8A <u>8A Hmwk:</u> 9-27 odd	
Nov 21-25	<b>Fall Break</b>	<b>Fall Break</b>	<b>Fall Break</b>	<b>Fall Break</b>	<b>Fall Break</b>
Nov 28-Dec 2		8C <u>8C Hmwk:</u> 13-31 odd		Ch8 Hmwk Due Review	
Dec 5-9	Dead Week	Dead Week Review?	Dead Week	Dead Week Review?	Dead Week
Dec 12-16				<b>Final 8-10</b>	

