

# Course Syllabus    MTH 230    Section 501 Summer II 2015

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<b>Course Title:</b>	Calculus with Analytic Geometry II
<b>Course Number:</b>	MTH 230 -- Section 501 – CRN: 5088 -- Credit: 4 Hours
<b>Textbook:</b>	Calculus, Early Transcendental, by Rogawski, Second Edition
<b>Sections Covered:</b>	6.1-6.5, 7.1-7.3, 7.5, 7.6, 7.8, 8.1, 10.1-10.7, 11.1-11.4
<b>Course Description:</b>	Applications of the integral, techniques of integration, and infinite series. A study of conic sections, polar coordinates, and parametric equations.
<b>Calculator:</b>	TI-83 or higher, graphing calculators may not be allowed for some problems in exams.
<b>Prerequisites:</b>	MTH 229 or MTH 229H with “C” or higher or IST 230
<b>Meeting Time:</b>	MTWRF: 10.00 – 12:20 PM
<b>Classroom:</b>	Smith Hall 514
<b>Instructor:</b>	Dr. Basant Karna
<b>Office:</b>	Smith Hall 741B
<b>Office Hours:</b>	After the class, Others by appointment
<b>Phone/Email:</b>	Phone: (304) 696-4332, Email: <a href="mailto:karna@marshall.edu">karna@marshall.edu</a>
<b>Web:</b>	<a href="http://www.science.marshall.edu/karna/">http://www.science.marshall.edu/karna/</a>
<b>Course Objectives:</b>	MATH 230 students will learn various integration techniques. They will learn how to use these techniques in applications such as finding the area, volume, and work. Through the study of sequences and series students will learn how to recognize patterns and how to creatively manipulate expressions in order to arrive at familiar patterns. Students will also learn parametric equations and polar coordinates and their applications.
<b>Course Contents:</b>	<ul style="list-style-type: none"> <li>- Integrals</li> <li>- Techniques of Integration</li> <li>- Further Applications of Integration</li> <li>- Infinite Sequences and Series</li> <li>- Parametric Equations and Polar Equations</li> </ul>
<b>Attendance Policy:</b>	Attendance is required and you must come with your text. Attendance will be taken every class day either by sign-in-sheet or by quiz. Having more than <b>25%</b> absences (excused or unexcused) may result in a course grade of <b>F</b> ! Absences which can be excused include illness, emergencies, or participation in another university activity. Documentation from an outside source must be provided.
<b>Grading Policy:</b>	<p>A. <i>Quizzes</i>: Throughout the semester, there will be 5 quizzes given. Problems in quizzes will be given from assigned homework problems (textbook will not be allowed).</p> <p>C. <i>Exams</i>: There will be 2 exams given in class during the semester.</p> <p>D. <i>Homework Problems</i>: Five homework assignments will be given and collected. You are responsible for reading the text, working the exercises, coming to office hours for help when you’re stuck, and being aware of the dates for the major exams.</p> <p>E. <i>Final Exam</i>: There will be a two-hour final exam on July 10 .</p>

<b>Points Distribution:</b>	Attendance 50 Pts Homework(5) 50 Pts Quizzes(5) 75 Pts 2 Exams 200 Pts Final Exam 125 Pts ----- Total Pts: 500 Pts
<b>Grades</b>	The semester grade will be based on the percentage of the 500 total possible points, using the following scale. A: 90 -100 % , B: 80 - 89 % , C: 70 - 79 % , D: 60 - 69 % , F: 0 - 59 %
<b>Make-ups:</b>	A. Quizzes: For unavoidable missed quizzes with valid documentation, I will give you make up quiz (up to two quizzes). B. <i>Exams</i> : Making up a missed exam is possible only if you receive prior permission from me and only for serious and unavoidable circumstances. You can't make up a make-up exam. C. <i>Final</i> : If you don't take final exam, you will receive "F" for the class.
<b>Exam Dates:</b>	There will be a quiz or an exam every third class day. Quizzes On: June 10, June 15, June 23, June 26, July 7 Exam 1 –June 18, Exam 2 –July 1 Final Exam: July 10 @ 10 AM (SH 514)
<b>Important Dates:</b>	<ul style="list-style-type: none"> <li>• June 9, Tuesday – “W” Withdrawal period begins</li> <li>• June 26, Friday – Last day to drop</li> <li>• July 3 – Independence Day – No class</li> <li>• July 9, Thursday – Last class day</li> </ul>
<b>Cell Phones:</b>	All electronic devices should be shut off during class. <b>No Text messaging in the class at any time.</b>
<b>University Policies</b>	Please see the Marshall University Academic Affairs website <a href="http://www.marshall.edu/academic-affairs/?page_id=802">http://www.marshall.edu/academic-affairs/?page_id=802</a> for policies regarding Academic Dishonesty, Excused Absence Policy, University Computing Services Acceptable Use, Inclement Weather, Dead Week, Academic Dismissal, Academic Forgiveness, Academic Probation and Suspension, Academic Rights and Responsibilities for Students, Affirmative Action, Sexual Harassment.
<b>Free Tutoring:</b>	Free tutoring in Music Smith Hall 115 from Monday to Friday. Time: 12:00-2:00 PM (Chad Lott), 2:00-4:00 PM (Spiro Stilianoudakis)
<b>Disable Students:</b>	The Disabled Student Services web site is now available. You may visit it at <a href="http://www.marshall.edu/disabled">http://www.marshall.edu/disabled</a> . Students seeking special accommodations need to follow the university policy detailed at this web site. It is their responsibility to initiate the process for receiving accommodations based upon their disability. If you have any questions or comments, please contact Sandra Clements, the Director of Disabled Student Services.
<b>Coming Late:</b>	Students should come on time and stay in the class for entire class. If you are late by more than 5 minutes, you will be considered to be absent.

## Homework Problems

----- HW 1 ----- Due: June 12 (Friday) -----

Section 6.1: 1, **3**, 6, **8**, 9, **13**, 14, **19**, 27, 31, **35**, 39

Section 6.2: 1, **2**, **9**, **11**, 13, 39, 41, 55, 56

Section 6.3: 1, **3**, 5, **8**, 11, **13**, 14, **15**, 17, **21**, 23, 27, **29**, 31, 33, 39, **41**, 45, 51

Section 6.4: 1, **3**, 7, **8**, 9, **15**, 16, **21**, 23

----- HW 2 ----- Due: June 19 (Friday) -----

Section 7.1: 1, **2**, 3, **5**, 7, **11**, 13, **15**, 17, 19, **23**, 25, **27**, **37**, 40, 45, 46, **51**, 52

Section 7.2: **1**, 2, **3**, 5, 9, **11**, 13, **15**, **17**, 21, **23**, 26, 28, **33**, 35, 37, 43, 49, 54, **57**

Section 7.3: 1, **3**, 5, 7, 9, **11**, 13, **15**, 17, **19**, 25, 31, **37**, 40

----- HW 3 ----- Due: June 26 (Friday) -----

Section 7.5: **1**, 2, **3**, 5, 7, **9**, 12, **13**, **15**, 17, **18**, 19, **24**, 26, **35**, 39, 41

Section 7.6: **1**, 2, **3**, 4, **5**, 7, **11**, 13, 19, 20, 25, 31, **33**, 35, **37**, **45**, 47, 61, 63, **67**

Section 7.8: **1**, 3, **5**, 9, **13**, 17

Section 8.1: **1**, 3, **5**, 9, 15, **33**, 35, 37, 39

----- HW 4 ----- Due: July 2 (Thursday) -----

Section 10.1: **1**, 2, **3**, 5, 7, 10, **13**, 14, 15,-29(**ODDS**), 35-61(**ODDS**), **63**, 65, **67**

Section 10.2: **1**, **2**, 3, **5**, 6, **17**, 18, **19**, **20**, 21, 23-36(**ODDS**)

Section 10.3: 1-78(**ODDS**)

Section 10.4: **1**, 2, **3**, 4, **7**, 15, 17-32(**ODDS**)

----- HW 5 ----- Due: July 9 (Thursday) -----

Section 10.5: 1-21 (**ODDS**), 27, 36-56 (**ODDS**)

Section 10.6: 3-41 (**ODDS**)

Section 10.7: **3**, 5, **6**, 7, 8, **9**, 12, **15**, **19**, 20, **21**, 25, **27**, 29, **30**, 32, **33**, 34, 37

----- HW 6 ----- Due: Optional -----

Section 11.1: 1, 5, 6, 7, 9, 11, 15, 19, 23, 25, 27, 29, 31, 36, 39, 49, 51, 53, 55, 83, 85

Section 11.2: 1, 3, 5, 7, 9, 16

Section 11.3: 1, 3, 5, 6, 7, 11, 13, 17, 19, 21, 24

Section 11.4: 1, 3, 5, 6, 7, 8, 10, 11, 13, 14, 25, 27

Turn in at least the bold faced problems. You are free to do more.