

INSTRUCTOR: Ian McCance

EMAIL : imccance@yahoo.com

TICKET #, TIME AND ROOM: 31268 **TTH** 1:30-3:35am S303

PREREQUISITES: Math 20 with grade of C or higher (or equivalent), or appropriate skill level as determined by participation in the math placement process.

REQUIRED TEXT AND MATERIALS: Aufmann, Barker, Lockwood. Prealgebra. Houghton Mifflin Company, fifth edition.

OBJECTIVE: Perform order of operations on Rational numbers. Simplify algebraic expressions. Translate algebraic expressions. Solve first degree equations. Find the perimeter and area of polygons. Find the volume of polyhedrons using formulas. Work with percents. Graph linear equations. Convert measures in Metric and American units. Read simple graphs and find the mean median and mode.

STUDENT LEARNING OUTCOME: Given a numerical problem involving integers and the operations of addition, subtraction, multiplication, division, exponents and grouping symbols. Student will use order of operations to evaluate the expression

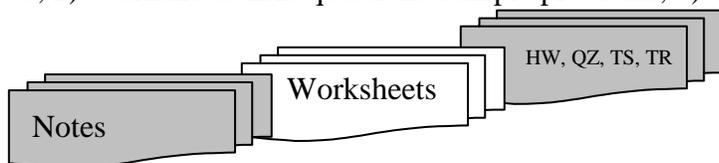
NEEDED MATERIALS: Scientific calculators may be used for some topics. Cell phones/PDAs/etc. may not be used as a calculator.

CELL PHONES: Use of a cell phone in class is disrespectful to the teacher and sometimes to the whole class. If a cell phone is used in class, then you will be asked to leave class for the day.

HOMEWORK: Homework will be assigned daily. Homework is there for two purposes, understanding the subject, and reinforcing the subject. After you understand something, you have about 24 hours to reinforce it before you will forget it. So don't wait to do the homework and don't just do the homework, understand it. Your homework represents your grade. **You also need to review your past HW daily.** You will forget what you have learned if you do not review it. Homework will be collected **every day**. Each homework collected is worth **2 points**. If the homework is not complete, sloppy, or no work is shown, then you may receive partial credit. If you are late to class, then you cannot turn in your HW. Excuses for being late must come with undeniable **proof**. 2 points may not sound like much but the points add up to 56 points, almost a full test score. If you do not do your homework, do not expect to pass. If you do not study past homework assignments, do not expect a grade higher than a C.

COURSE FOLDER: Your course folder should be a **three ring binder**. The folder will contain **dividers** labeled in order with the following:

1) Notes, 2) Worksheets/Exit questions/Sample problems, 3) Graded homework, quizzes, test reviews, and tests.



Your folder will be checked randomly and is worth 5 points at each check. A complete and organized, as above, folder will be given 5 points. An incomplete or unorganized folder will receive 0 points. If you stay organized the entire semester, then this is an easy 20 points by the end of the semester.

QUIZZES: Quizzes will be given at the beginning of class every Monday, except for exam weeks. This means if you leave early or arrive late, then you may miss a quiz. Every quiz will contain HW content.

Every quiz is worth 5 points. You may drop two quizzes. **Make up quizzes will only be given with documented extreme extenuating circumstance.**

ATTENDANCE/PARTICIPATION: **You must attend class every day in order to be successful in this course.** It is also important for you to be on time. Attendance will be taken every day at the start of class using your HW. If you are late, it is your responsibility to let me know that you are present. "it is the student's responsibility to withdraw officially from a course." However, because of enrollment demand a student may be dropped by the instructor when not appearing at the first class meeting. **A student may also be dropped for excessive absences when the total hours of absence exceed 10% of the total scheduled hours of the class.** " If more than 8 hours are missed, then you may be dropped. This means leaving early and arriving late will be counted towards the hours of absence. 4 days missed = possible drop.

If, due to unforeseen emergencies, I do not arrive at the scheduled start time of class, you are to remain in class for fifteen minutes. After that time, you may leave with no penalty for absence or assigned work due for that class meeting.

EXAM REVIEW: You will be given an exam review for each exam. The reviews are due the day before the exam. You will receive 5 points for each review.

EXAMINATIONS: There will be four examinations and a final. Each examination will consist of the following: Exam #1 - Chapters 1, 2 Exam #2 - Chapters 3, 4 Exam #3 – Chapter 5, 6 Exam #4 - Chapter 7, 8, 9 Final- Comprehensive (Ch 1-10). All material contained on each exam, as well as the date of the exam, is subject to change.

Tentative Exam dates:	:	Exam #1	:	Exam #2
Exam #3	:	Exam #4	:	Final

I do not give make-up examinations except under extreme extenuating circumstances that must be documented. You must contact me *immediately* if you know you will be missing an examination. If you know you are going to miss an exam, then you must notify me to schedule a new exam date. A missed examination is counted as a 0.

COURSE GRADE: Grades will be determined from quizzes and examinations.

Marks will be distributed as follows:

Homework :	56 pts. (2 pts. each hw)
Quizzes:	50 pts. (5 pts. each quiz)
Folder:	25 pts. (5 pts. each Folder)
Exam reviews:	20 pts. (5 pts. each review)
Examinations:	400 pts. (100 pts. each exam)
Final Examination:	<u>150 pts.</u>
Total	701 pts.

Letter grades are assigned as follows:

100%-90% A, 89%-80% B,
79%-70% C, 69%-60% D,
59%-0% F.

ACADEMIC HONESTY: Students are expected to abide by ethical standards in preparing and presenting material. Academic dishonesty includes, but is not limited to, copying another person's paper, discussing answers during an examination, using notes without permission from the instructor, and allowing someone to copy your work. Lack of academic honesty may result in expulsion.

IMPORTANT DEADLINES: The last day to drop without a "W" is March 2nd. The last day to withdraw with a "W" is April 27th.

Tentative Schedule: Schedule is subject to change.

Tuesday	Thursday	Tuesday	Thursday
31-Jan	2-Feb	7-Feb	9-Feb
1.1 #1-110 mult. Of 5 1.2 #6-138 mult of 6	1.3 #7-189 mult of 7 1.4 #3-21 odd	1.5 #3-43 odd 2.1 #3-129 mult of 3	2.2 #1-133 eoo 2.3 #5-125 mult of 10
14-Feb	16-Feb	21-Feb	23-Feb
2.4 #1-29 odd, 41-45 2.5 #1-51 odd	3.1 #7-70 mult of 7 3.2 #1-40 mult of 5 Review	Exam 1 (chapters 1-2)	3.3 #9-144 mult of 9, 151-167 odd 3.4 #4-152 mult of 4
28-Feb	1-Mar	6-Mar	8-Mar
3.5 #1-27 odd 3.6 #1-77 eoo	4.1 #5-85 mult of 5 4.2 #6-78 mult of 6 4.3 #7-147 mult of 7	4.4 #1-23 odd 4.5 #1-49 eoo	5.1 #5-105 mult of 5 5.2 #6-96 mult of 6 Review
13-Mar	15-Mar	20-Mar	22-Mar
Exam 2 (chapters 3-4)	5.3 #1-81 eoo 5.4 #3-69 mult of 3	5.5 #1-41 eoo 5.6 #41-77 eoo	5.7 #5-65 mult of 5, #65-75 odd 6.1 #1-69 eoo
27-Mar	29-Mar	3-Apr	5-Apr
Spring Break	Spring Break	6.2 #5-70 mult of 5 6.3 #1-57 eoo.	6.4 #1-43 odd 6.5 #7-42 mult of 7
10-Apr	12-Apr	17-Apr	19-Apr
6.6 #5-65 mult of 5 7.1 #6-66 mult of 6 Review	7.2 #1-29 odd 7.3 #3-63 eoo	Exam 3 (chapters 5-6)	7.4 #7-42 mult of 7, 51-69 odd 8.1 #5-90 mult of 5
24-Apr	26-Apr	1-May	3-May
8.2 #1-73 eoo 8.3 #1-25 eoo	8.4 #1-33 eoo 8.5 #1-17 eoo	9.1 #21-69 eoo 9.2 #6-102 mult of 6	9.3 #21-39 odd 9.4 #5-60 mult of 5
8-May	10-May	15-May	17-May
10.1 #7-49 mult of 7 10.2 #5-30 mult of 5	REVIEW	Exam 4 (chapters 7-9)	REVIEW
22-May	24-May		
Final 12:50-2:50			

mult. of	2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
mult. of	3	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66

eoo=every other odd

Insanity: doing the same thing over and over again and expecting different results.”- Albert Einstein.

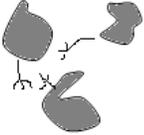
Without change there is no change. If you are not doing well in a subject, then change what you are doing.

Three simple steps to passing a class:

1. **UNDERSTAND THE PROBLEMS.** 30% of your grade. Don't try to recreate the steps and match the answers. Try and understand the steps and how the answers are found. Ask questions when you don't understand. If you still don't understand, then ask more questions. Do not leave class with the plan that you will figure it out later unless you plan on reading the book.

Before class: Read the sections about to be covered before the class starts. Look at previous notes to refresh your memory.

In class: Take notes and write little side notes that will help you remember. Do every in class problem assigned, whether you feel like you understand the problems or not. Focus on the subject and not your friends.



Your dendrites should be built to help you solve a problem and not to regurgitate a single problem. Here is your new thought, make it usable. It will disappear if not used in 24 hours, so take good notes.

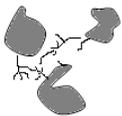
YOU MUST ATTEND EVERY CLASS.

IF YOU MISS A CLASS, THEN YOU MUST BE CAUGHT UP BY THE NEXT CLASS DATE.

2. **PRACTICE THE PROBLEMS.** 30% of your grade. Homework is there to help you practice your new found knowledge. Your notes are there to help you remember missing steps or to provide you with hints. You have 24 hours to start practicing before you will forget your newly acquired skill. Your newly created dendrites will start to disappear after 20 minutes. After 24 hours the newly created dendrites are almost gone.

A new thought repeated

A new thought not repeated

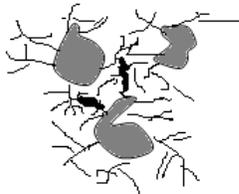
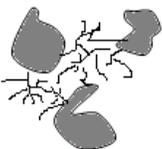


3. **REVIEW PREVIOUSLY LEARNED PROBLEMS.** 30% of your grade. Look at previous sections or reviews and try to perform the problems at least every other day. Remember that dendrites will disappear if they are not used. The more **consistently** you practice, the more the dendrites will grow and the longer they will stay.

Repeated again

Repeated a couple days later

Repeated a week later



If you do not fully commit to any of the above steps than remove 30% from your possible 100% grade. If you do not perform step three, then do not expect more than a 70% in the class. If you do not do the homework, then do not expect more than 70% in the class. If you do not perform step one, then...you get the idea.

Please remember: Your grade is based on your performance on assignments, quizzes, and tests. You must put in 8-12 hours per week outside of class and attend every class in order to pass this class.

Differences Between a High School Class and a College Course

High School	College
Attendance is required.	Attendance is optional and may not even be taken. Students can be dropped from the course for poor attendance.
Teachers monitor progress and performance closely.	Students receive grades, but are often not informed by the professor when they are in trouble.
A math course is covered over the course of 10 months for 5 hours a week.	A math course is covered over the course of 4 months for 3 to 5 hours a week.
The students have contact with the instructor every day.	The students often meet with the instructor only twice a week.
Studying occurs in class.	Studying occurs at home.
1- 2 hours of homework is assigned	4-6 hours or more of homework is assigned.
Teachers cover all material for tests in class through lectures and/or activities.	Students are responsible for information whether it is covered in class or not.
Teachers give frequent tests and often allow make-ups or retests if the grades are poor.	There are often only 2 or 3 tests a semester and no make-ups or retests are allowed.
Grades are often based heavily on level of participation and effort.	Grades are usually based exclusively on quality of work and demonstration of college level thinking.
A grade of "D" is interpreted as "barely passing" and the student is moved to the next-level course.	A grade of "D" is interpreted as "barely <i>not</i> passing" and the student is required to retake the class.
Teachers often offer extra credit for struggling students.	Professors almost never offer extra credit.
A 50% failing rate is unheard of and may affect the instructor's credibility.	A 50% failing rate is normal. The only credibility affected is the student's.

Bonus work, yes extra credit, due in one week (5 points). You must complete everything below for the 5 points.

This is worth 5 points don't miss out!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

1. Make three friends in our class and take down their info. Friends are handy if you miss a class or if you just want a study buddy.

Friend number 1:

Name: _____

Phone/email: _____

Friend number 2:

Name: _____

Phone/email: _____

Friend number 3:

Name: _____

Phone/email: _____

2. Agree on a common group meeting place. For example: coffee shop, fast food restaurant, library, laundry mat, park, abandoned house, vacant lot, large van...

Study groups are very effective ways to review and learn material.

3. Find the **Mathematics and Science Center (MSC- S300) Tel: 562-463-7571**. Get help with at least one homework question, and ask them very nicely to sign below. Oh, the tutors like gifts!

Signature of a tutor/Instructor _____

4. Find some time daily to study math, this includes HW and review, and mark those hours below.

EX.

Monday	1pm-1:40 pm , 5pm-6pm
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Hours required to **pass** a math/science class per **day** = $0.4(\text{number of class units}) =$ _____
(M-F only, for some reason textbooks seal shut on Weekends.)

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

5. Buy a three ring binder, three dividers, and place your printed math notes in it, in order. Label the binder Math and not College classes or Math/English/History/Art/Geography/Interpretive Dance. One binder per subject please. This is the folder you will turn in at the beginning of every test. **You must show me the completed folder in order to receive the 5 points.**

- 1) Find three people. Differing ages is recommended.
- 2) Ask each of them individually to choose one question and try to answer the question correctly.
- 3) Write down everything they say and do, how they are acting, how they appear to be feeling, etc...

Questions:

1) Farmer John has chicken and pigs. Little Jimmy wants to know how many pigs and how many chickens farmer John has. Little Jimmy's vision is blurry, so he cannot distinguish between the pigs and chickens. All he can see is the heads and feet of the animals. He counts 30 heads and 94 feet. How many chickens and how many pigs are there?

2) Gary began peeling a pile of 44 potatoes at the rate of 3 per minute. Four minutes later, Christen joined him, and peeled at the rate of 5 potatoes per minute. When they were finished, how many potatoes had each peeled?

3) You are on your way to visit your Grandma, who lives at the end of the valley. It's her birthday, and you want to give her the cakes you've made.

Between your house and her house, you have to cross 7 bridges, and as it goes in the land of make believe, there is a troll under every bridge! Each troll, quite rightly, insists that you pay a troll toll. Before you can cross their bridge, you have to give them half of the cakes you are carrying, but as they are kind trolls, they each give you back a single cake.

How many cakes do you have to leave home with to make sure that you arrive at Grandma's with exactly 2 cakes?

4) A shop sells apples at \$1 each. Each of these apples are wrapped in a special wrapper. You can trade 3 of these wrappers for 1 apple.

If you have \$15, how many apples can you get altogether?

5) Turn the first shape into the second by moving only three circles.

