Math Emporium (ME) Course Information – SPRING 2017

Math 1220

Course Description
Math 1220 has a scheduled, but self-paced, mastery design which makes it possible for a student to complete the course in less than a semester. This course is not an online course, but it is web-assisted. This means that students have an assigned classroom time and that most coursework (quizzes, homework, video lectures, exams, etc.) is completed on computers with internet access.

Time in the classroom is spent working in groups or individually while the instructor monitors student progress and assists students. Students will also receive guidance from Math Emporium Assistants. In-class lectures will not be given daily, but students have access to video lectures on all course topics.

Prerequisites:
Two years of high school algebra, one year of high school geometry, and placement in the course; or a grade of “C” or higher in MATH 1210.

Required Course Materials
MyLabsPlus (MLP) is the online delivery system used to complete most coursework. Students will have access to all of the required work for the semester on the first day of class, NO PURCHASE IS REQUIRED! (Course is based on: College Algebra 11th ed. Lial, Hornsby, Schneider, and Daniels.) Students will also be given printed material in class.

Graphing Calculator: Strongly recommended for Math 1220. If you do not have one, you may borrow one for your exams. The Learning Commons, see page 6, lends graphing calculators for 24-hour periods at no charge. The ME may also have a few calculators to loan during exams, see Calculator Policy, next page.

Class Attendance, Participation, and General Expectations
Keeping up with the course schedule, attending class, and asking questions when necessary are all essential to a successful semester in the Math Emporium (ME). You are expected to attend every class on time and actively participate in this course as a member of Ohio's premier learning community. [However, if you complete the course early (this means all pretests, homework, post-tests, BGP Quiz for 1220 students, and the final exam) and are not taking another math course this semester, then you are done and do not need to attend class!]

*** Math Emporium Attendance Policy ***

Regular class attendance and daily work in MyLabsPlus is vital to student success in this course! Attendance will be taken daily using your student ID. PLEASE BRING your BGSU photo ID to EVERY CLASS for attendance! You will be REQUIRED TO SWIPE IN AND OUT FOR ATTENDANCE CREDIT EVERY CLASS TIME. (Note: If you FORGET to swipe OUT, you will NOT RECEIVE CREDIT FOR ATTENDING class that day.)
Class Attendance, Participation, and General Expectations (continued)

Students should expect to spend **at least 3-6 additional hours a week outside** of the scheduled class time on their coursework! It is each student’s responsibility to read the eText, watch video lectures, complete the Math Study Skills guide, and complete all assignments on MyLabsPlus. **Students are also expected to ask for help with material, or about course procedures, as soon as they need it so that they do not fall behind schedule.** In addition to one-on-one help during class, students should also utilize other resources, some of which include: attending instructor office hours, visiting The Learning Commons, forming study groups, watching online videos, and using the Study Plan in MLP.

Course Procedures

This course consists of 7 Units, and each Unit is made up of 3 Sections. Starting with the first Unit of the course, the student takes a Pretest for that Unit. If the score is an 80% or above, the student may move on to the Exam. If the score is below 80%, the student completes the Homework assignment to 90%, then takes the Post-test. The student needs to earn a 70% or better on the Post-test to be prepared for (and to earn partial credit grading on) the Exam. If all work is not completed by the exam due date, see the Exam Policy, next page.

This process is repeated until all 7 Unit Exams are done. At that time, the BGP Quiz and Comprehensive Final Exam are taken to complete the course.

If at any time a student earns less than 60% on a Unit Exam, or less than 70% on multiple attempts on a Post-test, the student is asked to meet with their instructor before starting the next Unit.

Homework, Pretests & Post-tests

Pretests, homework assignments, and post-tests can all be completed in class **OR** outside of class and are all required, vital components to help master course material, in part by practicing concepts. Since these assignments are used to build and practice along the way to mastery, these assignment scores contribute minimally to your final grade.

Calculator Policy

Students **may use** a **Graphing Calculator** for all coursework and exams in Math 1220! **Only TI-81/82/83/84 or Casio basic graphing calculators are allowed.** If you have a different graphing calculator, please get permission from the ME Co-coordinators before using it for exams. [Your instructor is not permitted to make this determination and will not allow other graphing calculators without Co-coordinator approval.] **NOTE:** The Learning Commons, see page 6, lends graphing calculators at no charge. The ME may also have a limited number of calculators for students to use in the classroom when testing, with your student ID as collateral.

Final Grade

The grading scale is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89%</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79%</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69%</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60%</td>
</tr>
</tbody>
</table>

A passing grade of “C”/70% is required to move on to your next math course.

**PLEASE NOTE:** Even if your overall score is **BELOW 70%**, you can still show mastery of the course material and earn a passing grade in the course by getting 70% or better (without partial credit grading) on the Final Exam!
**Academic Honesty**

The instructors and students in this course will adhere to the University’s General Codes of Conduct defined in the BGSU Student Handbook. Specifically, the Code of Academic Conduct (Academic Honesty Policy) requires that students do not cheat, fabricate, plagiarize or facilitate academic dishonesty. Students who passively engage in cheating (i.e., allowing others to cheat off of them) may receive the same consequences as the person copying. Please see [https://www.bgsu.edu/catalog/academic-policies/academic-honesty.html](https://www.bgsu.edu/catalog/academic-policies/academic-honesty.html) for more information.

**Exam Policy**

All Unit Exams, the BGP Quiz, and the Comprehensive Final Exam **MUST** be **TAKEN IN THE CLASSROOM** on the Math Emporium laptops.

**PLEASE NOTE:** Even if you have not completed all required assignments for your exam prior to the exam due date, you must still take the exam no later than your regular class time on the due date! However, you will not receive partial credit for that exam. To receive partial credit on the exam you MUST have completed all coursework. In other words, you must have scored 80% or better on the Pretest, or 70% or better on the Post-test, for that Unit. If you do not take the exam on or before the due date, you will receive a score of zero for that exam. **THE ONLY EXCEPTIONS TO EXAM DUE DATES ARE FOR EXCUSED, DOCUMENTED ABSENCES / SITUATIONS.**

**DURING IN-CLASS UNIT EXAMS & FINAL EXAMS:** Keeping your cell phone on your lap or in your pocket, or having other prohibited materials out during an exam, may result in a zero grade for that exam and a report of academic dishonesty to the Dean. *** USING your cell phone (or any other prohibited device or material) during an exam without prior authorization WILL RESULT IN A REPORT OF ACADEMIC DISHONESTY TO THE DEAN. *** Please see [previous page](#), “Academic Honesty,” for more information.

A student has a possible total of **two takes per exam**, including the final exam, IF –

- The first take of the regular, unit exam is done BEFORE the due date shown on your schedule AND the second take is done ON OR BEFORE the DUE DATE SHOWN ON YOUR COURSE SCHEDULE!
- The first take of the final exam is done on or before the last day of your regular class meeting, or during final exam sign-ups the week before the university’s final exam week!

*** ALL EXAMS MUST BE TAKEN DURING YOUR SCHEDULED CLASS MEETING TIME! FOLLOW YOUR COURSE SCHEDULE & WORK AHEAD WHENEVER POSSIBLE!***

**EXTRA CREDIT OPPORTUNITY!**

**Math Study Skills Guide by Alan Bass** - **Extra Success and Extra Credit!**

**1st-time Emporium Students:** This is truly a win-win. The Math Study Skills booklet contains information about math anxiety and gives you strategies and tips for improving your study habits. Read this booklet, complete all 35 short exercises, and turn it in for extra credit that will be added to your overall score at the end of the semester. The SOONER you get this done, the SOONER you will BENEFIT from the great advice and study tips, and the more points you will earn. [And this info can benefit you in ALL of your classes, not just in math!]
Continuing Emporium Students:

- If you did NOT complete the book during a previous semester, follow the directions above for 1st-time students.
- If you DID complete the book, but did not use the points for your previous semester’s grade, you may still submit your book this semester for credit.
- If you DID complete the book AND did use the points, please follow the appropriate directions:

  If you passed your previous class and have moved on to the next course or are repeating a course, you may:

  Discuss a notebook project with your instructor at the beginning of the semester! (See rubric for note-taking project on last page of syllabus.)

<table>
<thead>
<tr>
<th>If 100% COMPLETE Study Skills</th>
<th>Possible percentage points added to Overall Score at end of semester:</th>
</tr>
</thead>
<tbody>
<tr>
<td>booklet (or paper or notes) turned in by:</td>
<td></td>
</tr>
<tr>
<td>February 10\textsuperscript{th}, Friday</td>
<td>3%</td>
</tr>
<tr>
<td>March 17\textsuperscript{th}, Friday</td>
<td>2%</td>
</tr>
<tr>
<td>April 21\textsuperscript{st}, Friday</td>
<td>1%</td>
</tr>
</tbody>
</table>

The completed notebook project is due by April 22\textsuperscript{nd} for a maximum of 3%.

PLEASE NOTE: This can make a huge difference in your final grade for the course! Your percentage points WILL NOT show up in your Overall Score in MyLabsPlus (MLP). INSTEAD, any points earned will be added to your Overall Score when final grades are calculated at the end of the semester.

Students Registered with Disability Services

Students who have or acquire a disability which raises academic concerns may contact the Office of Disability Services, located at 38 College Park Office Building, 419-372-8495 (voice) and 419-372-8496 (fax), 419-372-9455 (tty), dss@bgsu.edu. If a student is currently registered with the Office of Disability Services, the student is required to give the instructor a copy of any official paperwork so that the Co-coordinators can make the necessary accommodations.

Please give copies of your paperwork to your instructor as soon as possible at the start of each semester, preferably NO LATER THAN the start of the second week of classes. (If you register with Disability Services once the semester starts, please turn in the paperwork as soon as you receive it.)

Please see http://www.bgsu.edu/disability-services.html or call 419-372-8495 for more information. Please Note: When taking exams in the Office of Disability Services, all classroom exam rules apply.

BGSU Veterans

Please see http://www.bgsu.edu/registration-records/bgsu-veterans.html or call Veteran Affairs at 419-372-9636 for more information.
Dropping/Add/Changing Grading Option

During the fall and spring semesters, a student may enroll in a course within seven calendar days from the beginning of classes; fourteen calendar days are allowed for a student to change the grading option without college approval or to drop a course with no record on the transcript. During summer term, students may enroll in courses during the first three calendar days of a given session; five calendar days are allowed for a student to change the grading option or drop a course with no record on the transcript.

After the above deadlines, a student may choose to change the grade option for a course with the approval of the college in which they are enrolled. The student is responsible for filing a schedule change form in the college office on or before the last day of the 12th week of fall and spring semesters. For summer and all other sessions, the student is responsible for filing a schedule change form in the college office before the 80% completion date.

After these dates exceptions may be granted only by the dean of the student's college. For information about withdrawing from a course after the drop date, see Grading policies. Students should also consult the grading policies for a discussion of the S/U grading option.

ALSO NOTE:
A grade of "F" (failing) is assigned under the following circumstances:
- the student withdraws after the intervals described above;
- the student stops attending the class without processing a withdrawal;
- the student has never attended the class and has not processed an official withdrawal.

These provisions apply to the A-F, the S/U and the No Credit grading systems. Students taking courses that are graded S/U or No Credit should be aware that it is possible to earn a grade of "F" if they do not follow the guidelines for withdrawing from a course.

The previous information is from the student catalog. For more information, please see https://www.bgsu.edu/catalog/academic-policies.html. You may also call the Office of Registration & Records (110 Administration Building) at 419-372-8441.

Math Emporium Co-coordinators
If you have any questions or concerns, please first talk with your instructor. If the issue cannot be resolved, contact one of the ME Co-coordinators. The ME Co-coordinators are Michelle Heckman (Interim Director), mheckma@bgsu.edu, and Konra Holman, kfriedb@bgsu.edu. The Math Emporium Office is located in 204 Olscamp, across the hall from the classroom entrance.

The Learning Commons (TLC)
The Learning Commons provides free math tutoring services to all BGSU students and is located on the first floor of Jerome Library. In addition to tutoring, TLC also offers resources such as textbooks, computers, a variety of handouts, and a lending library (which includes CALCULATORS). They also have FREE, one-hour, one-on-one tutoring sessions available by appointment! Please see the TLC website at www.bgsu.edu/learning-commons.html for current hours of operation and additional information.

Department Mediator
If you have a problem or concern that cannot be resolved by discussing the issue with your teacher or the ME Co-coordinators, you may contact the Math Department Mediator. The Mediator for the Department of Mathematics and Statistics is: Dr. Kit Chan, 415 MSC, 419-372-7468, kchan@bgsu.edu.

PLEASE CHECK your BGSU email DAILY for important information from your Instructors & ME Co-coordinators!

WHEN EMAILING: In the SUBJECT LINE, please be sure to INCLUDE which COURSE you are in and the DAY & TIME your class meets.  (For example: Math 1220, MWF 11:30)

This will help your Instructors and the Co-coordinators respond to your email more quickly!

**BGP Learning Outcomes**

1. Interpret mathematical and statistical models such as formulas, graphs, tables, and schematics, and draw inferences from them.
2. Represent mathematical and statistical information symbolically, visually, numerically, and verbally.
3. Use arithmetical, algebraic, geometric and statistical methods to solve problems.
4. Estimate and check answers to mathematical problems in order to determine reasonableness, identify alternatives, and select optimal results.

**Course Learning Outcomes**

1. Demonstrate an understanding of functions and their graphs.
2. Distinguish between linear and quadratic functions and their graphs.
3. Demonstrate an understanding of four methods of factoring.
4. Distinguish between exponential and logarithmic functions and their graphs.
5. Create graphs for polynomial and rational functions.
6. Demonstrate an understanding of the laws of exponents.
7. Solve systems of equations in two and three variables, and solve related application problems.

**Course Topics**

**Chapter 1  Equations & Inequalities**

1.1 Linear Equations
1.4 Quadratic Equations
1.7 Inequalities

**Chapter 2  Graphs & Functions**

2.3 Functions
2.4 Linear Functions
2.5 Equations of Lines and Linear Models
2.6 Graphs of Basic Functions
2.7 Graphing Techniques
2.8 Function Operations and Compositions
Chapter 3  Polynomial & Rational Functions
  3.1  Quadratic Functions and Models
  3.2  Synthetic Division
  3.3  Zeros of Polynomials
  3.4  Polynomial Functions: Graphs, Applications, and Models
  3.5  Rational Functions: Graphs, Applications, and Models
  3.6  Variations
Chapter 4  Inverse, Exponential, and Logarithmic Functions
  4.1  Inverse Functions
  4.2  Exponential Functions
  4.3  Logarithmic Functions
  4.4  Evaluating Logarithms and the Change-of-Base Theorem
  4.5  Exponential and Logarithmic Functions
Chapter 5  Systems & Matrices
  5.1  Systems of Linear Equations
# Math Emporium Extra Credit: Note-Taking Project Rubric

**NAME:** ___________________________  **DATE SUBMITTED:** ______________________

**INSTRUCTOR:** _______________________  **COURSE DAY/TIME:** ______________________

<table>
<thead>
<tr>
<th></th>
<th>3%</th>
<th>2%</th>
<th>1%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Neatness</strong></td>
<td><strong>Handwriting</strong></td>
<td><strong>Notebook Condition</strong></td>
<td><strong>Organization</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Always</strong> neat and legible</td>
<td><strong>Mostly</strong> legible</td>
<td><strong>Most</strong> notes are labeled</td>
</tr>
<tr>
<td></td>
<td><strong>Notes are together in one binder or notebook</strong></td>
<td><strong>Notes are in a few places but can be found with some hunting</strong></td>
<td><strong>Some</strong> notes are labeled</td>
</tr>
<tr>
<td></td>
<td><strong>Notes are everywhere and difficult to find</strong></td>
<td></td>
<td><strong>Few</strong> notes are labeled</td>
</tr>
<tr>
<td><strong>Learning Pages</strong></td>
<td><strong>There are notes from most learning pages</strong></td>
<td><strong>Some</strong> learning pages are in the notes</td>
<td><strong>Few</strong> learning page notes can be found</td>
</tr>
<tr>
<td><strong>eText and Video Notes</strong></td>
<td><strong>Many pages of notes from the eText and/or videos can be found in the notebook</strong></td>
<td><strong>Some</strong> notes from the videos and eText can be found</td>
<td><strong>Few</strong> notes from the videos or e-Book</td>
</tr>
<tr>
<td><strong>Homework Notes</strong></td>
<td><strong>There are homework problems from most required sections</strong></td>
<td><strong>Some</strong> homework problems are in the notes</td>
<td><strong>Few</strong> homework problems can be found</td>
</tr>
</tbody>
</table>