SYLLABUS for MA12401 – Mathematical Ideas, Fall 2021

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Requirements

Materials:

- **MyMathLab (MML):** MyMathLab (MML) is the online homework server where you will do all graded homework, and practice quizzes and tests. Access comes with registration in the course.
- **Text:** *Thinking Mathematically,* by Robert Blitzer, 7th Edition. Follett's Bookstore on campus will no longer be selling our book. Pearson offers our students the book (new) at a discount from $120 to $49.99 with free shipping to your address. You may access this negotiated deal at: http://www.mypearsonstore.com/bookstore/mylab-math-print-offer-for-thinking-mathematically-9780134705040?aid=35a64d28-2ab1-4257-825e-5e612458ea05. You may also access an e-copy of your textbook on the MML website.
- **Guided Notes:** Students are required to print out and complete the guided notes. The guided notes are posted on the course Brightspace home page. Students are encouraged to print the set in a campus computer lab on their student account to save your own paper and ink. I suggest printing on both sides and 3-hole punching them.
- **3-Ring Binder:** a 2" binder is needed to hold the guided notes, loose-leaf paper for work, handouts, and textbook.
- **Calculator:** A graphing calculator, like the TI83 or TI84, is required and can be used on all exams, including the final, *but* TI89, TI92, as well as other symbolic manipulation calculators will ***not*** be allowed. The instructor will be using a TI84. Other models are permitted, but you are responsible for knowing how to use. You can rent graphing calculators for $15 per semester from Student Government, Walb 225 (481-6586), on a first-come-first-served basis until they are gone, which is usually the first week of classes.

Technology:

- Internet Access - Cable/DSL, T1, or other high-speed for multimedia content; 56k modem (minimum) for tutorials, homework, and testing
- Operating Systems - Windows 7, 8, 8.1, or 10; for MAC use 10.9 or newer
- Browser - Internet Explorer 11 (not with Windows 10), Firefox 46 or newer, Chrome 49 or newer; Edge 12 or newer (with Windows 10 only); Safari 9 (for MAC)
- Software - Adobe Reader and Adobe Flash Player 20 and up, Java

Be sure to do the BROWSER CHECK on the MML Home page when you log in for the first time (or anytime you login from a different computer). Without these minimums and browser checks, you may be unable to view lectures and online quiz and test questions.

Support

Students with Disabilities:
The Disability Access Center (DAC), Walb 113, has a primary mission: to ensure that all students with disabilities can freely and actively participate in all facets of university life and to provide and/or coordinate support services and programs that enable students with disabilities to maximize their educational potential. Please contact them at 260-481-6657 or visit the web site for DAC at https://www.pfw.edu/dac for more information.

Support Continued

Technical Support:
If you are experiencing technical difficulties with your computer, software, your PFW account or password, Brightspace, MyMathLab, or viewing lectures (Kaltura Media), please contact the ITS Help Desk (Kettler Hall 206) at (260) 481-6030 or helpdesk@pfw.edu. Their hours are Mon – Fri, 7:30am-8:00pm; Saturday, 8:00am – 4:30pm.

Free Tutoring:
Free tutoring is offered for most math and science courses starting the second week of classes through the week before finals. Please visit the MA12401 Content page for more information posted. **Types of tutoring:**

- **On-campus math tutoring** is offered in KT G19 on a first-come-first-serve basis, with unlimited usage available to registered PFW or IUFW students.
- **Online math tutoring** is offered multiple times during the week, although the exact schedule hasn't been set yet. Access online tutoring through the Math Dept website, https://www.pfw.edu/math.

To get more information about the types of courses (not just math!) for which tutoring is offered, call 260-481-5419.

➢ *If you find yourself getting lost, promptly seek help to avoid stress and falling behind.*

MyMathLab:

- MyMathLab (MML) is an interactive website where you complete homework, quizzes and tests.
- **Logging In:**
  - Go to Brightspace, https://purdue.brightspace.com, and sign in
  - In Brightspace, select MA12401 from your course list.
  - Go to CONTENT and select the MyMathLab (MML) link on the left-hand side of the course window
  - **If you attempt logging into MML and get a message you are logged out due to inactivity, you will need to clear your cache and cookies.** NOTE: if you do not find success with this or if you don't know how to clear cache and cookies, call the ITS Help Desk, (260) 481-6030.
  - **If the course isn't loading or you get an error message, try the following actions:**
    - click "refresh" a few times to see if it will reload correctly
    - try using a different browser
    - delete cache and cookies from your browser's history
    - call the ITS Help Desk, (260) 481-6030.

Grading

Grade Scale:

A 90-100%
B 80-89%
C 70-79%
D 60-69%
F below 60%

Course Grade will consist of:

Three exams	300 pts	(100 pts each x 3 exams)
Quizzes	200 pts	(25 pts each x quiz scores kept based on % of total pts)
MML HW	150 pts	(based on percent of total points earned)
Participation & Binder	100 pts	(50 pts each)
Final Exam	250 pts	
TOTAL	**1000 pts**	

Guided Notes:

Students are ***required*** to print the guided notes from the course Brightspace homepage**.** There are about 60 pages, so if possible you should come to campus and print them using your printing allowance at one of the student-access computer labs (KT217, NFB71, LA42, SBG15, WB221, Library). The set of notes are custom-created by the instructor for each book section covered in this course (the notes for each section are divided into four categories):

I) Section Objectives – lists the objectives covered in the section.

II) Concept and Vocabulary Check – students will answer these questions while reading their textbook.

III) Skills Review – students will use this section of notes with the Skills Review homework in MyMathLab. These problems represent a review of prerequisite skills that students will need to be successful at this topic. Included in the Skills Review homework is a customized video of two PFW instructors working the skills review problems from this section of the notes; students write down the steps while on their guided notes as they watch the explanations. Then students will work homework problems practicing the skills just reviewed to know if understanding is grasped.

IV) Applications – students will use this section of notes with the Applications homework in MyMathLab. These problems represent the types of problems found on quizzes and tests over this topic and will be discussed in class together. Then students will work homework problems practicing the skills just reviewed to know if understanding is grasped.

Participation, Attendance

Participation & Attendance:

- Positively participating in class increases learning and the morale of the class. Being present and engaged plays an essential role in the learning process. Not only will it help to maximize what you get out of the course, but will help you in finding success in understanding and mastery.
- Students who have perfect attendance and participation for each 4-week period during the semester (no texting, sleeping, arriving late, leaving early, etc.) will not only will earn the *bonus extra credit* advantage to drop a lowest quiz score (for a total of up to 4 quizzes for the semester).
- Use of cell phones, laptops, and other devices that connect you with the world outside of our classroom is not allowed during class. Using these during class will result in losing the participation part of your grade and forfeiting the possibility of dropping a quiz for that 4-week period.
- It is the student's responsibility to learn the material missed in class during the absence and to complete all assignments due before the next class meeting to prepare for the new material being presented.
  NOTE: *2 tardies = 1 unexcused absence (arriving late/leaving early)*

Schedule:

- Online homework & quizzes are due on the dates posted in MML but also on page 6 of syllabus.
- You must stay on schedule in order to be ready to take the quizzes & exams during their allowed dates.
- Schedule your course work on several days throughout the week; waiting until the weekend to do all of the week's work is poor planning and typically results in a lack of understanding, rushed attempts and increased stress, missed deadlines and low scores.

Homework and Quizzes

Homework:

There are 2 types of homework assignments:

- **Skills Review homework** is designed to help you review prerequisite skills needed for each textbook section. PRIOR to our class meetings, watch the video included in the Skills Review homework in MyMathLab while completing section III, Skills Review, of the guided notes, then complete the Skills Review homework questions. *The **Skills Review** homework assignments are due before class (8 a.m.) on the day we will be discussing each section* (you will also find the deadlines in MML for added convenience).
- **Applications homework** is where you will practice the skills learned in the classroom to prepare you for quizzes and tests. These assignments are generally due 11:59 pm on Saturday of each week.

- You can work MML problems multiple times by clicking "similar exercise" at the bottom of the page.
- You must earn a minimum of 80% on homework to be able to open the corresponding quiz.
- Late homework will incur an automatic 20% per day penalty on all problems completed after the due date. ***However, as long as your score before the penalty is at least 80%, you can still access the quiz***.

Quizzes:

- You will be taking 14 quizzes (dates posted on the tentative schedule).
- The Syllabus quiz will not be dropped; however, unlike the others, you can take it multiple times.
- You will have only one try at the 13 remaining quizzes and must complete the two Success quizzes within 60 minutes but will have 90 minutes to complete the 11 content quizzes.
- Quizzes will generally be open for a 3-day window (you are responsible to know the due dates provided you on the tentative schedule and also in MyMathLab). Most quizzes are generally due 11:59 pm on Sunday of each week *with a few exceptions* (dates posted on the tentative schedule and also in MML).
- Up to 4 of your lowest regular quiz scores may be dropped at the end of the semester. For each four-week period that you have perfect attendance and participation (i.e. no cell phone activity, sleeping, etc, for the duration of class), one lowest quiz score will be dropped, for a maximum of four dropped quizzes for the semester. This is where extra credit in this course – no extra work is required!
- Make-up or extensions on quizzes are never allowed since I offer the opportunity to drop quizzes. Any missed quiz will score as a zero but may be dropped by the end of the semester provided the student meets the guidelines listed above.

Exams

Location:

- The regular exams will be taken in your usual class during regular class meeting times (see schedule on last page).
- The final exam will be taken at an alternate location, to be assigned at a later time, on Tuesday, December 14th, 3:30-5:30pm. This is a common final, meaning all sections of MA12401 will take the final exam at the same time.

Format of Exams:

- All exams will have 2 parts: part 1 is multiple choice, with answers recorded on a scantron card; part 2 is short answer and requires you to show your work to earn points.
- Partial credit may be awarded at the instructor's discretion if they feel the work you have shown is correct and relevant.
- All regular exams count as 10% of your final grade. The final exam counts as 25 % of your final grade as required by the PFW Department of Mathematics.

Missing an exam:

- You must contact me within 24 hours to explain your reason for missing it; documentation is required.
- You will incur *at least* a 10% penalty if a makeup exam is allowed.

Text: *Thinking Mathematically*, 7th ed. by Robert Blitzer			MA 12401 Tentative Schedule			Tuesday/Thursday
Week of	**MON**	**TUESDAY**	**WED**	**THURSDAY**	**FRI**	**Sat/Sun**
Aug 23-29	**23**	**MyMathLab/ 1.2** *Syllabus Quiz and Success Quizzes open*	**25**	**Sec 5.1** *MML Orientation HW due*	**27**	**28/29**
Aug 30-Sept 5	**30**	**Sec 5.1/5.2** *Syllabus & Success Quiz 1 close*	**1**	**Sec 5.2/5.5**** **AHW 5.1 due* *Quiz 5.1/5.2 opens*	**3**	**4/5** **AHW 5.2,5.5 due; Success Quiz 2 and Quiz 5.1/5.2 closes*
Sept 6-12	**6** ***Labor Day*** *(no classes*	**Sec 5.4**	**8**	**Sec 5.4** **AHW 5.2,5.5 due* *Quiz 5.4/5.5 opens*	**10**	**11/12** **AHW 5.4 due;* *Quiz 5.4/5.5 closes*
Sept 13-19	**13**	**Sec 5.6**	**15**	**Sec 5.6** *Quiz 5.6 opens*	**17**	**18/19** **AHW 5.6 due* *Quiz 5.6 closes*
Sept 20-26	**20**	**Review for Exam #1**	**22**	**Exam #1**	**24**	**25/26**
Sept 27-Oct 3	**27**	**Sec 5.3**	**29**	**Sec 5.3** *Quiz 5.3 opens*	**1**	**2/3** **AHW 5.3 due* *Quiz 5.3 closes*
Oct 4-10	**4**	**Sec 8.1**	**6**	**Sec 8.1** *Quiz 8.1 opens*	**8**	**9/10** **AHW 8.1 due;* *Quiz 8.1 closes*
Oct 11-17	**11**	**Sec 6.1/6.2**	**13**	**Sec 6.2** *Quiz 6.1/6.2 opens*	**15**	**16/17** **AHW 6.1, 6.2 due* *Quiz 6.1/6.2 closes*
Oct 18-24	***Fall Break*** *(no classes)*		**20**	**Sec 6.3** *Quiz 6.3 opens*	**22**	**23/24** **AHW 6.3 due;* *Quiz 6.3 closes*
Oct 25-31	**25**	**Sec 6.4**	**27**	**Review for Exam #2** *Quiz 6.4 opens*	**29**	**30/31** **AHW 6.4 due* *Quiz 6.4 closes*
Nov 1-7	**1**	**Exam #2**	**3**	**Sec 7.1**	**5**	**6/7**
Nov 8-14	**8**	**Sec 7.1/7.2**	**10**	**Sec 7.2** **AHW 7.1 due* *Quizzes 7.1 & 7.2 open*	**12**	**13/14** **AHW 7.2 due; Quiz 7.1 closes*
Nov 15-21	**15**	**Sec 7.3 (graphing)** *Quiz 7.2 closes*	**17**	**Sec 7.3 (substitution)** **AHW 7.3graphing due*	**19**	**20/21** **AHW 7.3 (subst) due*
Nov 22-28	**22**	**Sec 7.3 (elimination)** *Quiz 7.3 opens*	***Thanksgiving Break*** *(no classes)*		**26**	**27/28** **AHW 7.3 (elim) due;* *Quiz 7.3 closes*
Nov 29-Dec 5	**29**	**Review for Exam #3**	**1**	**Exam #3**	**3**	**4/5**
Dec 6-12	**6**	**Review for Final Exam**	**8**	**Review for Final Exam**	**10**	**11/12**
Dec 13-19	**13**	**Final Exam 14** **3:30-5:30pm**				

**AHW = Applications Homework ** Sec 5.5 -only dist, comm, and assoc properties*

Note: Skills Review Homework for each section is due before class on the day each section is to be discussed (in bold)