Math for Teachers II (Fundamentals of Mathematics II)  
School of Mathematics

Instructor Information
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Course Information
Course Title: Math for Teachers II (Fundamentals of Mathematics II)  
Course Number: MATH 1351  
Section Number: 80430  
Semester/Year: Spring 2020  
Credit Hours: 3  
Class Meeting Time/Location: ONLINE  
Certification Date: March 28, 2020  
Last Day to Withdraw: May 1, 2020  
Final Exam Date/Time: The Final Exam will be available in Connect between 12:00am (CST) on Tuesday, May 12, 2020 and 6:00pm (CST) on Wednesday, May 13, 2020.

Course Prerequisites
MATH 1350

Course Description
This course consists of the study of concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 through 8) teacher certification.
Required Course Materials


   Connect Course Key ID: [2020sp-math-1351-80430](https://connect.mheducation.com/class/j-hill-2020sp-math-1351-80430)

   IMPORTANT: Please see the section titled “Other Course Policies” regarding registration for this Connect ID for this course.

2. A graphing calculator is required. A TI-83 or TI-84 is recommended. However, it should be one without a computer algebra system or algebraic manipulation ability.

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Graded Work

The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated.

Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation/Attendance in eCampus</td>
<td>10%</td>
</tr>
<tr>
<td>Forums in eCampus</td>
<td>10%</td>
</tr>
<tr>
<td>Homework in Connect</td>
<td>14%</td>
</tr>
<tr>
<td>Tests in Connect/eCampus</td>
<td>42%</td>
</tr>
<tr>
<td>Final Exam in Connect/eCampus</td>
<td>24%</td>
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</table>

**TOTAL: 100%**

Final Grade

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
</tbody>
</table>
### Percentages and Letter Grade

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>80-89%</td>
<td>B</td>
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<tr>
<td>70-79%</td>
<td>C</td>
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<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

### Description of Graded Work

1. **Orientation/Attendance:** Please see the section titled “Attendance and Your Final Grade” for description.

2. **Forums:** There are two Forums housed in eCampus. Each Forum is worth 5 points and will have at start date and due date. All requirements listed in the Forum’s instructions must be fulfilled in order to earn the 5 points for a particular Forum. There is no partial credit awarded.

3. **Homework:** There are eighteen online homework assignments. Two of your lowest graded online homework assignment scores will be dropped after the last homework assignment due date has passed. However, this does not include the Review Assignments for Test 1, Test 2, Test 3, and the Final Exam. The Review Assignments will not be dropped. The online homework assignments are located within Connect and are not timed. Your highest graded attempt for each online homework will be recorded in Connect. The online homework mean (average) will be recorded in the eCampus gradebook. All online homework assignments must be completed by 11:59pm (CST) on the due date.
   a. For each online homework assignment, you will have three attempts to complete the assignment. You can always “save and exit” anytime within assignment to save your work and come back to it at a later time, before the assignment’s due date.
   b. You can complete the assignment in the order the questions are given or you can move around by selecting the question you wish to work on/answer at that time.
   c. Once you have completed the assignment, you will need to click the “Submit” button so that it may be graded.
   d. All online homework assignments, with the exception of the Review Assignments, are due on 5/9/2020 in order to allow each student ample time to complete the assignment.

4. **Tests/Final Exam:** There are three Tests and each Test is housed in Connect. Each Test is timed and you will have 110 minutes to complete each Test in
Connect. The Tests assess your understanding of the concepts you practiced within your online homework and by coercing you to apply what you've learned. The problems on the Tests are based on the problems found on the Review Assignment for each Test. There is one Final Exam and it is housed in Connect. The Final Exam is timed and you will have 110 minutes to complete each it in Connect. The Final Exam is comprehensive and will be based on the problems found on the Review Assignment for the Final Exam.

All Tests and the Final Exam must be completed by 6:00pm (CST) on the due date.

a. IMPORTANT: If you open your Test and type in the password (“spongebob”), you must hit the “Submit” button even if you do not attempt to type in any solution. Connect counts this as attempt (and it will stand) because you typed in the password to access the content of the Test. You will not be able to access any other assignment, etc. in Connect unless you hit the “Submit” button.

b. IMPORTANT: If you open your Final Exam and type in the password (“plankton”), you must hit the “Submit” button, even if you do not attempt to type in any solution. Connect counts this as attempt (and it will stand) because you typed in the password to access the content of the Final Exam. You will not be able to access any other assignment, etc. in Connect unless your hit the “Submit” button.

c. You have one attempt to complete each Test/Final Exam within Connect.

d. You are allowed to be able to "go back and review" a problem and/or "try it again" and/or skip around and select which problems you want to do before you press the “Submit” button - once you press the “Submit” button, your Test/Final Exam is submitted and you will not be able to reopen the Test/Final Exam to "go back and review" a problem and/or "try it again". It is strongly suggested that you are certain that you are prepared to complete the Test/Final Exam once you elect to open the Test/Final Exam and type in the password.

e. IMPORTANT: Your Test/Final Exam will immediately submit if you go to any other website or try to access the book or homework problems within Connect (and this is documented within Connect by McGraw-Hill's Client Log activity) while your Test/Final Exam is open. This is an act of academic dishonesty. Your Instructor can easily verify this action and not only will the Tests/Final Exam not be reopened, but you will receive a grade of zero (0) which is non-replaceable.

e. Your final Test/Final Exam scores will be recorded in the eCampus gradebook.
# Tentative Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
<th>Assignments</th>
</tr>
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</table>
| 1    | 7.1, 7.2, 7.3 | Assignments for Sections 7.1, 7.2, 7.3 due by 11:59pm (CST) on 5/9  
Forum 1 opens at 12:00am (CST) on 3/23  
Forum 1 due at 11:59pm (CST) on 3/31 |
| 2    | 8.1, 8.2, 8.3 | Assignments for Sections 8.1, 8.2, 8.3 due by 11:59pm (CST) on 5/9  
Review Assignment for Test 1 due by 11:59pm (CST) on 4/3  
Test 1 covers terminology/applications found in Connect  
online Assignments #1 - #7.  
Test 1 opens at 12:00am (CST) in Connect on 4/4  
Test 1 due at 6:00pm (CST) in Connect on 4/6 |
| 3    | 10.1, 10.2 | Assignments for Sections 10.1, 10.2 due by 11:59pm (CST) on 5/9 |
| 4    | 10.3, 10.4 | Assignments for Sections 10.3, 10.4 due by 11:59pm (CST) on 5/9  
Review Assignment for Test 2 due by 11:59pm (CST) on 4/16  
Test 2 covers terminology/applications found in Connect  
online Assignments #8 - #11.  
Test 2 opens at 12:00am (CST) in Connect on 4/17  
Test 2 due at 6:00pm (CST) in Connect on 4/19 |
| 5    | 11.1, 11.2 | Assignments for Sections 11.1, 11.2 due by 11:59pm (CST) on 5/9 |
| 6    | 11.3, 12.1 | Assignments for Sections 11.3, 12.1 due by 11:59pm (CST) on 5/9  
Forum 2 opens at 12:00am (CST) on 4/27  
Forum 2 due at 11:59pm (CST) on 5/4 |
| 7    | 12.2, 12.3 | Assignments for Sections 12.2, 12.3 due by 11:59pm (CST) on 5/9  
Review Assignment for Test 3 due by 11:59pm (CST) on 5/9  
Test 3 opens at 12:00am (CST) in Connect on 5/10  
Test 3 due at 6:00pm (CST) in Connect on 5/11 |
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections</th>
<th>Assignments</th>
</tr>
</thead>
</table>
| 8    | Final Exam | Review Assignment for Final Exam due by 11:59pm (CST) on 5/12  
Final Exam opens open at 12:00am (CST) in Connect on 5/12  
Final Exam due at 6:00pm (CST) in Connect on 5/13  
Final Exam grades and Final Semester grades will be posted within eCampus sometime after the 5/13 deadline for the Final Exam, but by 1:00pm (CST) on 5/15 |

**Attendance and Your Final Grade**

1. In order to be successful, students must attend and participate in enrolled courses. If you are receiving Financial Aid grants or loans, you must begin attendance in all classes prior to the certification date. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds.

2. To earn your Attendance grade for this course, you are required to click on the “Start Here” and “Syllabus/Course Info” links within eCampus. Within the “Start Here” link, you are also required to access the “Course Orientation” and “Netiquette” folders. You are required to read all items posted within these links and folders to orientate yourself with the course structure, communication regulations, and course policies. You are also required to follow the instructions, as stated, to submit your virtual orientation online contracts Part I, Part II, and Part III. It is very imperative that you follow the instructions for submission, exactly as stated within these links and folders in eCampus, in order to avoid not receiving your full Orientation points and negatively affecting your final grade.

3. It is your responsibility to
   a. Submit (upload) your fully completed/signed online contracts (Part I, Part II, and Part III) as one (1) pdf file only (no other file type will be accepted) within eCampus per the instructions listed in the “Start Here/Course Orientation” folder, “Start Here/Netiquette” folder, and the “Syllabus/Course Info” link within eCampus.
   b. You will have three attempts to submit (upload) your fully completed/signed online contracts (Part I, Part II, and Part III) as one (1) pdf file only within eCampus.
   c. The deadline for submission is by 11:59pm (CST) on March 28, 2020. If your online contracts (Part I, Part II, and Part III) are correctly submitted (uploaded)
within eCampus as one (1) pdf file and is accepted by the Instructor, you will have earned all 10 Orientation points and be allowed to replace your first missed Test or lowest Test score with mean of your two highest Test grades.

d. The online contracts (Part I, Part II, and Part III) will be made available in eCampus and you must read through every item/link with the “Virtual Orientation” links to access the online contracts.

4. a. If the online contracts (Part I, Part II, and Part III) are incorrectly submitted (uploaded) within eCampus by 11:59pm (CST) on March 28, 2020, they will not be accepted by the Instructor. If you have not used all of your submission attempts, then you will have another opportunity to resubmit your corrected online contracts, before the official withdrawal date. If your document is submitted correctly and accepted by the Instructor, you will have earned only half of the total Orientation points (your Orientation points will be 5) and be allowed to replace your first missed Test or lowest Test score with mean of your two highest Test grades.

b. If the online contracts (Part I, Part II, and Part III) are correctly submitted (uploaded) within eCampus after the “11:59pm (CST) on March 28, 2020” deadline, but before the official withdrawal date, you will have earned only half of the total Orientation points (your Orientation points will be 5), but you will not be allowed to replace your first missed Test or lowest Test score with mean of your two highest Test grades.

c. If the online contracts (Part I, Part II, and Part III) are correctly or incorrectly submitted (uploaded) within eCampus after the official withdrawal date, the submission will not be accepted by the Instructor. You will forfeit all of your Orientation points (your Orientation points will be zero (0)) and you will not be allowed to replace your first missed Test or lowest Test score with mean of your two highest Test grades.

5. The contracts are extremely important since failure to submit these documents by the original due date will affect your attendance grade; attendance certification/financial aid (when applicable); and your opportunity to replace your first missed Test grade/lowest Test grade. Incomplete and/or incorrectly uploaded documents will not be accepted, there are no exceptions. Therefore, it is very imperative that you follow the instructions EXACTLY as stated within eCampus.

6. If your instructor cannot:

a. Open/access your submitted (uploaded) document within eCampus, that is not a technical issue from the instructor’s end; it is a technical issue from the student’s end and you will have earned a grade of zero (0) for that particular submission attempt and be allowed to replace your first missed Test or lowest Test score with mean of your two highest Test grades.
b. Read your fully completed/signed submitted (uploaded) document because it is miniscule, blurry, illegible (hard to decipher), the image is not right side up (meaning the image is on its side or upside down causing your Instructor to have to tilt her head to try and grade your written work), you tried to use only one image causing all of previously typed words and your written words/initials to become miniature and hard to read, etc., your instructor will not accept your submission and you will have earned a grade of zero (0) for that particular submission attempt and be allowed to replace your first missed Test or lowest Test score with mean of your two highest Test grades.

7. IMPORTANT: Do not email your Instructor your fully completed/signed online contracts (Part I, Part II, and Part III) as one (1) pdf file. Your Instructor will not accept any fully completed/signed online contracts (Part I, Part II, and Part III) as one (1) pdf file submitted via email. Your instructor does not, and will not, make an exception for any reason.

Late Work Policy

Your Instructor defines a "late/make-up" as a homework that is attempted after the scheduled due date as listed in the course schedule.
There are no late/make-up homework assignments accepted in this course.
Your Instructor defines a "late/make-up" as a Test/Final Exam that is administered before or after the scheduled administration date of the Exam /Final Exam as listed in the course schedule.
A late/make-up Test/Final Exam is not allowed within this course.
If a student misses completing the Final Exam, the student will have earned a grade of zero (0) for the Final Exam. This could seriously affect the student’s final grade. Since there are no make-up Final Exams, students are strongly encouraged to complete the Final Exam.

Other Course Policies

Please adhere to the addition policies listed below.

1. Your instructor will gladly respond to emails that are appropriately addressed: course number in the subject line only (no id number in the subject line please). Your Instructor will respond within 24 hours of receipt Monday – Friday (emails received after 10:00am (CST) on Friday will answered as soon as possible starting the following Monday. Holiday emails will be answered as soon as possible upon your Instructor’s return to campus). IMPORTANT: If there is no course number in the subject line in the email you send – your email will be considered a potential virus threat – you will receive no reply from your Instructor.
2. Please remember—you will be able to register for Connect for this course on 3/13/2020 and some assignment content may be available. However, more assignment content will be made available starting 3/23/2020. Please also remember that you are required to register using your exact last and first names that are listed on the DCCCD eConnect roster for this course. Failure to do so will result in the termination of your Connect account and the deletion of your Connect work (you will not be given the opportunity to redo/make-up the work that was deleted due to your negligence in registering the incorrect last and first names).

3. The last day to register a legitimate Connect access code for this course is 5/1/2020 (Withdrawal Date). You will not be able to register for Connect for this course after 5/1/2020. You will not be allowed to “make-up” any online homework assignments that you missed due to your negligence in not registering a legitimate Connect access code for this course by 5/1/2020.

4. By 3/28/2020, Connect, eCampus, Wi-Fi, network/server technical issues will not be an excuse for missed/incomplete online homework assignments, online Review assignments, online Tests, or online Final Exam and/or late/no submission of written work for online Tests/Final Exam. This is an online class. You are expected to have a computer and reliable internet access available to you. There are computers on campus in the open lab in the 2nd floor lab in Del Rio, but they are only open when the College is open and only during their hours posted on the door. Wi-Fi is turned off when the campus is closed.
   If you are not sure of your internet connection, there are computers and the Internet available at libraries, Richland College, and a number of other places. The website being down or your computer or internet access not working at the last minute is something you should expect. Therefore, you are always encouraged to work ahead.

5. Technical Issues regarding Tests/Final Exam:
   a. If you are attempting to complete a Test (that does not require written work to be submitted (uploaded) within eCampus) in Connect and the Connect software and/or server, your internet/server, or anything else fails (this includes power outages) during the Test, no incident number is needed. Your Instructor will not reopen a Test attempt for any reason, there are no exceptions. Your Instructor does not, and will not, make an exception.
   b. If you are attempting to complete a Test/Final Exam (that does require written
work to be submitted (uploaded) within eCampus) in Connect and the Connect software and/or server, your internet/server, or anything else fails (this includes power outages) during the Test/Final Exam, you must submit (upload via eCampus per the directions in the “Tests-Upload Here” or the “Final Exam-Upload Here” links in eCampus) your written work within 30 minutes of it occurring. Failure to do so will result in your earning zero (0) points for that particular set of written work for that portion of the Test/Final Exam. No incident number is needed. Your Instructor will not reopen the Test/Final Exam attempt for any reason, there are no exceptions. Your Instructor does not, and will not, make an exception.

c. If you experience any technical issues submitting your written work within eCampus, and your written work submission does not go through within the “30 minutes submission deadline” (see “Instructions for Submitting Written Work below) for a Test/ Final Exam in which certain problems require submitted written work for grading, then you will have earned zero (0) points for that particular set of written work for that portion of the Test or the Final Exam.

d. Please do not email your Instructor your written work for any Test/Final Exam. Your Instructor will not accept any written work for any Test/Final Exam submitted via email for any reason. Your Instructor does not, and will not, make an exception.

6. Instructions for Submitting Written Work (Part I): There will be certain problems within a given Test and the Final Exam that will require you to submit (upload via eCampus) written work to be graded in eCampus by your Instructor and will be calculated in the corresponding final Test grade and final Final Exam grade. The following statements are included here, not to belittle your intelligence (your Instructor would never do this intentionally), but to make sure that the concept of “written” is fully understood, herein, this document and this course in an effort to decrease the negative impact on any given Test/Final Exam grade. “Written” is the past participle of the word “write”. In this document and for this particular course, the following definition of the word “write” is used: “Write (verb), to trace or form (characters, letters, words, etc.) on the surface of some material, as with a pen, pencil, or other instrument or means; inscribe”. This is not equivalent to the word “Type (verb), write (something) on a typewriter or computer by pressing the keys”. Typed work (this includes MS Excel spreadsheets, computerized graphs, etc.) will not be accepted as written work. Any typed work that is submitted for any particular problem on any given Test/Final Exam will not be accepted and you will have earned zero (0) points for that problem.
7. Instructions for Submitting Written Work (Part II):
   a. For a Test/Final Exam that requires the submission (uploading via eCampus) of written work, it is very imperative that you follow the instructions exactly as stated within the “Tests-Upload Here” (for Tests) or the “Final Exam – Upload Here” (for the Final Exam) links in eCampus.
   b. After you complete the Test/Final Exam, you need to submit your supporting written work within 30 minutes of hitting the "Submit" button in Connect. This is very important – Connect will place a time stamp after you hit the "Submit" button and eCampus places a time stamp after your supporting written work for a Test/Final Exam has uploaded and these time stamps will be considered. If the supporting written work submission is late, then one (1) point will be deducted from the total points of the written work portion of the Test/Final Exam for each minute over the 30 minute window.
   c. You will still need to hit the "Submit" button once you have completed a Test/Final Exam. Failure to do so will affect the Connect time stamp and your submitted supporting written work will not be accepted (there is no way to validate when your Test/Final Exam was completed in Connect and if your supporting written work was submitted within the 30 minute window) and you will have earned zero (0) points for that particular set of written work problems for that portion of the Test/Final Exam.
   d. You will have two attempts to submit (upload) your written work for a Test/Final Exam, in the require format that is stated in the list of instructions within the “Tests-Upload Here” (for Tests) or the “Final Exam – Upload Here” (for the Final Exam) links in eCampus. Your instructor will only grade the last (latest) attempt of your submitted (uploaded) written work. There is no exception made; your Instructor adheres to this policy in fairness of all students enrolled in this course.
   e. If your Instructor cannot read your written work for an application problem (this includes every part of a multi-part problem) OR terminology question/problem (this includes every part of a multi-part question/problem) because it is miniscule, blurry, illegible (hard to decipher), the image is not right side up (meaning the image is on its side or upside down causing your Instructor to have to tilt her head to try and grade your written work), you tried to use only one image causing all of your written work to become miniature and hard to read, etc., your Instructor will give no credit for that particular question/problem. There are no exceptions.

8. IMPORTANT: If you have concerns about Connect, you must contact Tech support for Connect (Customer Experience Group (CXG) Support Center): 1-800-331-5094 (US only), or click this link Contact McGraw-Hill
If you have concerns about eCampus, you must contact Tech support for eCampus. Please see the link in eCampus to gain access to the eCampus Help Desk.

**Academic Dishonesty in Math Classes**

Academically dishonest behavior is, in general, the representation of another’s work as one’s one. This includes unauthorized materials or websites or apps during tests or exams. Students who behave in academically dishonest ways may have their grade penalized, or be subject to disciplinary action by the Dean of Students. Students who collaborate during exams or use unauthorized materials or websites or apps may, at the instructor’s discretion, have the exam grade lowered or be given a grade of zero. In the instance that a student is given the grade of zero on a unit test, the right of having a unit test grade replaced by the final exam grade is forfeited. Students who are academically dishonest on the final exam, may at the instructor’s discretion, have the grade lowered, be given a zero, or be given the grade of F in the course.

**Student Learning Outcomes**

Upon successful completion of this course, students will:

1. Develop problem solving skills with respect to problems presented in grades 4 – 8 mathematics.
2. Develop the foundation for and the understanding of basic concepts of topology.
3. Develop the foundation for and the understanding of basic concepts of geometry and measurement.
   a. Apply fundamental terms of geometry such as points, lines, and planes to describe two and three dimensional figures.
   b. Make and test conjectures about figures and geometric relationships.
   c. Use a variety of methods to identify and justify congruency and similarity of geometric objects.
4. Develop the foundation for and the understanding of transformations and reflections by performing geometric transformations.
5. Develop the foundation for and the understanding of basic concepts of probability and statistics.
   a. Demonstrate fundamental probability techniques and apply those techniques to solve problems.
   b. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
   c. Recognize, examine, and utilize the basic principles of describing and presenting data.
6. Experience the use of manipulatives that will be used in the grades 4-8 classroom.
a. Perform measurement processes and explain the concept of a unit of measurement.
b. Develop and use formulas for the perimeter, area, and volume for a variety of figures.
7. Develop effective mathematical communication skills.

Texas Core Objectives
The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. Personal Responsibility - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. Social Responsibility - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Specific Content Coverage

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<th>Topic</th>
<th>Objective</th>
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<tr>
<td>7.2</td>
<td>Describing and Analyzing Data</td>
<td>5b</td>
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<tr>
<td>7.3</td>
<td>Sampling, Predictions, and Simulations</td>
<td>5b, 5c</td>
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<td>8.1</td>
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<td>Multistage Experiments</td>
<td>5a</td>
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<td>Polygons and Tessellations</td>
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<td>Similarity Mappings</td>
<td>2, 3c</td>
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**Institutional Policies**

Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

[Richland Institutional Policies](http://www.richlandcollege.edu/syllabipolicies)