Math 101, Intermediate Algebra, 3 credit hours
Black Hills State University
Spring 2009 – Course Syllabus

Course Meeting Time and Location:

<table>
<thead>
<tr>
<th>Section</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>B001</td>
<td>Estrup, A</td>
<td>MWF</td>
<td>10:00-10:50 am</td>
<td>JS168</td>
</tr>
<tr>
<td>B002</td>
<td>Estrup, A</td>
<td>MWF</td>
<td>12:00-12:50 pm</td>
<td>JS168</td>
</tr>
<tr>
<td>B003</td>
<td>Stillson, H</td>
<td>MWF</td>
<td>1:00-1:50 pm</td>
<td>JS168</td>
</tr>
<tr>
<td>B004</td>
<td>Stillson, H</td>
<td>T Th</td>
<td>9:30-10:45 am</td>
<td>JS168</td>
</tr>
<tr>
<td>B005</td>
<td>Stillson, H</td>
<td>T Th</td>
<td>12:30-1:45 pm</td>
<td>JS168</td>
</tr>
</tbody>
</table>

Instructor Contact Information

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Office</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam Estrup</td>
<td>JS-162</td>
<td>642-6076</td>
<td><a href="mailto:AdamEstrup@bhsu.edu">AdamEstrup@bhsu.edu</a></td>
</tr>
<tr>
<td>Holly Stillson</td>
<td>SW-204</td>
<td>642-6643</td>
<td><a href="mailto:HollyStillson@bhsu.edu">HollyStillson@bhsu.edu</a></td>
</tr>
</tbody>
</table>

Contact your instructor for specific office hours

Course Description

Catalog Description
Basic properties of real numbers, linear equations and inequalities, quadratic equations, systems of equations, polynomials and factoring, rational expressions and equations, and radical expressions and equations, and an introduction to functions such as polynomial, exponential and logarithmic functions. Credit for MATH 101 will not be granted to anyone who has previously received credit for MATH 102 or MATH 115. A grade of S or C or better will be required for progression into MATH 102.

Course Prerequisites
The instructor assumes that the student possesses arithmetic skills at the introductory (basic) level or above, and that this has been demonstrated by either successful completion of a basic algebra course, or placement test results at the intermediate test level. If a student has not been placed in intermediate algebra by the SDBOR placement process or successfully completed basic algebra at BHSU, it is the student’s responsibility to inform the intermediate algebra instructor within the first two days of class. Failure to do so will be construed as misrepresentation of information to the instructor and will fall within the guidelines as set forth by the BHSU statement of student responsibilities, rights, and freedoms in the Student Handbook.

Instructional Methods
Lectures and class discussions.

Course Requirements

Supplemental Material: Your instructor may require you to purchase access to MathXL. This will be bundled with your textbook if you purchase your textbook in the BHSU bookstore.
**Class attendance policy:** By university policy, enrollment in a class implies the responsibility for attending each class session. Students will be allowed to make up graded work if an absence is due to participation in university-sponsored activities, provided prior notification of the impending absence has been given to the instructor.

**Cheating and plagiarism policy:** In this course you are expected to perform to the utmost of your abilities in an honest and sincere manner. Cheating and plagiarism will not be tolerated. Academic misconduct will be dealt with per BOR regulations.

**Make-policy:** Except in the case of a documented emergency, or an absence caused by a university-sponsored activity, no makeup tests are allowed. The burden of proof regarding the absence rests with the student.

### Course Goals
To prepare the student for MATH 102 College Algebra by enhancing the student’s
- a. background in fundamental algebra skills
- b. mathematical vocabulary
- c. word/application problem interpretation
- d. graphing skills

### Student Learning Outcomes
**Student Learning Outcomes:** As a result of taking this course, students will be able to:
1. Perform real number computations on examinations, quizzes, and homework problems.
2. Solve linear equations and inequalities of one variable on examinations, quizzes, and homework problems.
3. Graph equations and inequalities on examinations, quizzes, and homework problems.
4. Solve systems of linear equations (inequalities) of two variables on examinations, quizzes, and homework problems.
5. Understand properties of polynomials and perform calculations using them on examinations, quizzes, and homework problems.
6. Perform calculations involving radicals, fractional exponents, and solve equations on examinations, quizzes, and homework problems.
7. Solve quadratic equations on examinations, quizzes, and homework problems.

### Student Evaluation Procedures
Final grades will be determined on the basis of homework, quizzes, three unit examinations, and a comprehensive final. The unit exams will be given at the completion of each of the first three units. The final will cover material from all four units.
Grading will be according to the following:
90-100=>A; 80-89=>B; 70-79=>C; 60-69=>D; less => F

*Since you enrolled in a pre-general education course (Math 101), you are required by Regental policy to take and pass Math 101 within the first 42 hours of enrollment. If you do not pass Math 101 within the 42 hours, you will be moved to non-degree seeking status and your enrollment will be limited to that class.*

**Unit Exams:** The first unit exam will account for 10% of the final grade, while each of the second and third unit exams will account for 20% of the final grade (for a total of 50%). These exams will be closed book, common/evening exams that include all sections, and no calculators.
Final Exam: The course will end with a comprehensive closed book final, which will account for 30% of the final grade. Final Tuesday, May 5, at 1:15 pm.

- **Quizzes and Homework:** Homework and quizzes will each account for 10% of your final grade. All homework assignments will be completed on MathXL. If you purchased your textbook through the BHSU bookstore, an access code to MathXL will be included. If you purchased your textbook through another source, you will need to purchase access to MathXL separately. You can do this through the bookstore or online at [http://www.mathxl.com](http://www.mathxl.com). You will want to log in frequently to see if there are any new assignments posted. No late assignments will be accepted.

- Your instructor may choose to base your final grade on just your exam scores. If this is the case, your instructor will announce this on the first day of class and each exam will be weighted an additional 5%.

Disability Statement: Reasonable accommodations, as arranged through the Disabilities Services Coordinator, will be provided for students with documented disabilities. Contact the BHSU Disabilities Services Coordinator at 642-6099 (Jacket Legacy Room in the Student Union) for more information.

Academic Freedom and Responsibility: Under Board of Regents and University policy student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinions or conduct unrelated to academic standards should contact the chair of the department in which the course is being taught to initiate a review of the evaluation.

Tentative Course Outline:
The course consists of four units. In addition to the units listed below, your instructor may augment the units with material from other chapters in the text and other resources.

- **Unit I**  Solving Linear Equations and Inequalities  Chapter 1
  - Graphing, Functions, and Applications  Chapter 2
- **Unit II**  System of Equations  Chapter 3
  - Polynomials and Polynomial Functions  Chapter 4
- **Unit III**  Rational Expressions, Equations, and Functions  Chapter 5
  - Radical Expressions, Equations, and Functions  Chapter 6
- **Unit IV**  Quadratic Equations and Functions  Chapter 7

Tentative Exam Dates:

- **Unit I**  Exam Thursday, February 12, 2009 @ 7 pm
- **Unit II**  Exam Thursday, March 19, 2009 @ 7 pm
- **Unit III**  Exam Thursday, April 23, 2009 @ 7 pm