

**South Plains College**  
**Common Course Syllabus: Non-Course Based Math (NCBM 0105)**  
**Fall 2021**

**Department:** Mathematics, Engineering, and Computer Science

**Discipline:** Mathematics

**Course Number:** NCBM 0105

**Course Title:** Developmental Mathematics

**Available Formats:** This course utilizes the Internet primarily. However, the final assessment will be face-to-face.

**Campuses:** Levelland, Reese, Plainview, and Lubbock Center. The coursework will be online.

**Course Description:** Topics in mathematics, such as arithmetic operations, basic algebraic concepts and notation, geometry, real and complex number systems are taught to prepare students for MATH 0314, MATH 0332, or MATH 0342.

**Prerequisite:** Maximum ABE score of 4 on the TSIA1 or a maximum diagnostic score of 3 on the TSIA2.

**Credit:** 1 **Lecture:** 0 **Lab:** 3

**This course partially satisfies a Core Curriculum Requirement:** No

**Student Learning Outcomes:** Upon completion of this course and receiving a passing grade, the student will be able to:

1. Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.
2. Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.
3. Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.
4. Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.
5. Use graphs, tables, and technology to analyze, interpret, and compare data sets.
6. Construct and use mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.

**Student Learning Outcomes Assessment:** Students must take a written end-of-semester assessment (final exam) covering the information from EdReady.

The class will cover topics from the following units of study in the EdReady system:

- 1) Whole Numbers
- 2) Fractions & Mixed Numbers
- 3) Decimals

- 4) Ratios, Rates, and Proportions
- 5) Percents
- 6) Real Numbers
- 7) Solving Equations
- 8) Exponents and Polynomials
- 9) Factoring
- 10) Geometry
- 11) Complex Numbers.

**Course Evaluation:** EdReady will evaluate the student's mastery of each math concept and provide the student with a score between 0 and 100. The student's goal is to earn an EdReady score of at least 90, which should provide a strong background of mathematical understanding for the final assessment (final exam). At the end of the semester, the student will take a written assessment (final exam) that will determine the student's final course grade for this NCBM 0105 course. The student will schedule a time with the instructor to meet face-to-face for the written assessment (final exam). Performance on this final exam assessment will result in a pass or fail grade for the course. The student must score at least a 70% on the final exam assessment to pass the NCBM 0105 course. A grade of 'P' is assigned for a passing grade, while a grade of 'F' for a failing grade. In order to be fully prepared for the final assessment, it is strongly recommended that the student master enough topics in the EdReady system to obtain a score of at least 90.

**Attendance Policy:** Attendance and effort are the most important activities for success in this course. The instructor maintains records of the student's engagement throughout the semester. The student will be required to communicate with the instructor at least once per week for the duration of this course. Failure to communicate at least once per week with the instructor will result in the student being dropped from the course.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

**Student Code of Conduct Policy:** Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

**Diversity Statement:** In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

**Disability Statement:** Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

**Nondiscrimination Policy:** South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

**Title IX Pregnancy Accommodations Statement:** If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To [activate](#) accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or [email cgilster@southplainscollege.edu](mailto:cgilster@southplainscollege.edu) for assistance.

**Campus Concealed Carry:** Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php> Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

**SPC Bookstore Price Match Guarantee Policy:** If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the

student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester. The student must have a copy of the receipt and the book has to be in stock at the competition at the time of the price match.

The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by Amazon*, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs.

A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund.

Price matching is only available on in-store purchases. Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

**COVID Syllabus Statement:** It is the policy of South Plains College that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the SPC community. There will be no requirement for face coverings at any location on any South Plains College campus or classroom. Faculty, staff, or students may continue to wear a mask voluntarily, but there will be no requirements for face coverings in any circumstance. Students who believe they have been exposed or may be COVID-19 positive, must contact Health Services, DeEtte Edens, BSN, RN at (806) 716-2376 or [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu).

If you are experiencing any of the following symptoms please do not attend class and either seek medical attention or get tested for COVID-19.

Cough, shortness of breath, difficulty breathing

- Fever or chills
- Muscles or body aches
- Vomiting or diarrhea
- New loss of taste and smell

Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu) or 806-716-2376.

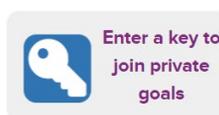


6. The student must score at least a 70% on the final exam assessment to pass the NCBM 0105 course.
7. A grade of 'P' is assigned for a passing grade, while a grade of 'F' for a failing grade.
8. In order to be fully prepared for the final assessment, it is strongly recommended that the student master enough topics in the EdReady system to obtain a score of at least 90.

**Course Completion Deadline:** All coursework must be completed by **Friday, December 10<sup>th</sup>**.

### Accessing the Course:

Inside your Blackboard course, you will find a link to **EdReady**. After clicking this link, you should find an area on the screen to enter a goal key. The area should look similar to:



Your goal key for this course is: **Becker0105Fall21** This goal key is case-sensitive, so make sure to provide the correct upper- and lower-cases of the letters. Once into the correct goal, you will take an initial diagnostic test.

### Taking the Initial Diagnostic Test:

- Please allow at least one hour for this test. However, if you need more time or need to step away, there is an option to save and exit.
- After completing this initial diagnostic test, contact your instructor for next steps to complete the requirements for this course.

### The following 11 Units will be covered in EdReady:

1. Whole Numbers Unit with 12 different topics
2. Fractions & Mixed Numbers Unit with 9 different topics
3. Decimals Unit with 5 different topics
4. Ratios, Rates, and Proportions Unit with 2 different topics
5. Percents Unit with 2 different topics
6. Real Numbers Unit with 9 different topics
7. Solving Equations and Inequalities Unit with 1 topic
8. Exponents and Polynomials Unit with 5 topics
9. Factoring Unit with 5 topics
10. Geometry Unit with 2 topics
11. Radical Expressions and Quadratic Equations with 2 topics

Week	Day	Date	Lesson Topic / Assignment
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1	Mon-Fri	August 30 - September 3	<ul style="list-style-type: none"> <li>Log in to the course using the link in Blackboard.</li> <li>Use the goal key <b>Becker0105Fall21</b> to get started in the course.</li> <li>Complete the initial diagnostic test.</li> </ul>
2	Mon-Fri	September 6-10	<p>Complete Topics 1-6 in the Whole Numbers Unit</p> <ol style="list-style-type: none"> <li>Place Value and Names for Whole Numbers</li> <li>Rounding Whole Numbers</li> <li>Comparing Whole Numbers</li> <li>Adding Whole Numbers and Applications</li> <li>Subtracting Whole Numbers and Applications</li> <li>Estimation</li> </ol>
3	Mon-Fri	September 13-17	<p>Complete Topics 7-12 in the Whole Numbers Unit</p> <ol style="list-style-type: none"> <li>Multiplying Whole Numbers and Applications</li> <li>Dividing Whole Numbers and Applications</li> <li>Properties and Laws of Whole Numbers</li> <li>The Distributive Property</li> <li>Understanding Exponents and Square Roots</li> <li>Order of Operations</li> </ol>
4	Mon-Fri	September 20-24	<p>Complete Topics 1-5 in the Fractions &amp; Mixed Numbers Unit</p> <ol style="list-style-type: none"> <li>Intro to Fractions and Mixed Numbers</li> <li>Proper and Improper Fractions</li> <li>Factors and Primes</li> <li>Simplifying Fractions</li> <li>Comparing Fractions</li> </ol>
5	Mon-Fri	September 27-October 1	<p>Complete Topics 6-9 in the Fractions &amp; Mixed Numbers Unit</p> <ol style="list-style-type: none"> <li>Multiplying Fractions and Mixed Numbers</li> <li>Dividing Fractions and Mixed Number</li> <li>Adding Fractions and Mixed Numbers</li> <li>Subtracting Fractions and Mixed Numbers</li> </ol>
6	Mon-Fri	October 4-8	<p>Complete the 5 topics in the Decimals Unit</p> <ol style="list-style-type: none"> <li>Decimals and Fractions</li> <li>Ordering and Rounding Decimals</li> <li>Adding and Subtracting Decimals</li> <li>Multiplying and Dividing Decimals</li> <li>Estimation with Decimals</li> </ol>
7	Mon-Fri	October 11-15	<p>Complete the 2 topics in the Ratios, Rates, and Proportions Unit</p> <ol style="list-style-type: none"> <li>Simplifying Rations and Rates</li> <li>Understanding Proportions</li> </ol>
8	Mon-Fri	October 18-22	<p>Complete the 2 topics in the Percents Unit</p> <ol style="list-style-type: none"> <li>Convert Percents, Decimals, and Fractions</li> <li>Solving Percent Problems</li> </ol>
9	Mon-Fri	October 25-29	<p>Complete Topics 1-5 in the Real Numbers Unit</p> <ol style="list-style-type: none"> <li>Variables and Expressions</li> <li>Integers</li> <li>Rational and Real Numbers</li> <li>Adding Integers</li> <li>Adding Real Numbers</li> </ol>
10	Mon-Fri	November 1-5	<p>Complete Topics 6-9 in the Real Numbers Unit</p> <ol style="list-style-type: none"> <li>Subtracting Real Numbers</li> <li>Multiplying and Dividing Real Numbers</li> <li>Associative, Commutative, and Distributive Properties</li> <li>Order of Operations</li> </ol>
11	Mon-Fri	November 8-12	<p>Complete the 1 topic in the Solving Equations Unit</p> <ol style="list-style-type: none"> <li>Solving One-Step Equations Using Properties of Equality</li> </ol>
12	Mon-Fri	November 15-19	<p>Complete Topics in the Exponents and Polynomials Unit</p> <ol style="list-style-type: none"> <li>Introduction to Single Variable Polynomials</li> <li>Adding and Subtracting Polynomials</li> </ol>

			<ol style="list-style-type: none"> <li>3. Multiplying Polynomials</li> <li>4. Multiplying Special Cases</li> <li>5. Dividing by a Polynomial</li> </ol>
13	Mon-Fri	November 22-6	<p>Complete Topics in the Factoring Unit</p> <ol style="list-style-type: none"> <li>1. Greatest Common Factor</li> <li>2. Factoring Trinomials</li> <li>3. Factoring Special Cases</li> <li>4. Factoring Cubes</li> <li>5. Solve Quadratic Equations by Factoring</li> </ol>
14	Mon-Fri	November 29 – December 3	<p>Complete Topics in the Geometry Unit</p> <ol style="list-style-type: none"> <li>1. Figures in 1 and 2 Dimensions</li> <li>2. Perimeter and Area</li> </ol>
15	Mon-Fri	December 6-10	<p>Complete Topics in the Radical Expressions and Quadratic Equations Unit</p> <ol style="list-style-type: none"> <li>1. Complex Numbers</li> <li>2. Operations with Complex Numbers</li> </ol> <ul style="list-style-type: none"> <li>• This course must be completed by Friday, December 10 in order to schedule your final exam.</li> <li>• Schedule your Final Exam</li> </ul>
16	Mon-Tues	Dec 13 - 14	Final Exam