

South Plains College
Common Course Syllabus: NCBM 0105
Revised December 2022

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: NCBM 0105

Course Title: Developmental Mathematics

Available Formats: hybrid and internet

Campuses: Levelland, Downtown Center, and Plainview Center

Course Description: Topics in mathematics, such as arithmetic operations, basic algebraic concepts and notation, geometry. And real and complex number systems are taught to prepare students for any of the corequisite courses.

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

Textbook: None, use of online system required

Supplies: Please see the instructor's course information sheet for specific supplies.

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: Student must take a written end of semester assessment covering the information covered in EdReady in class.

Course Evaluation: EdReady will evaluate the mastery of each student and give a score between 0 and 100 **and** student grade on the written end of semester assessment.

Attendance Policy: The student will be required to communicate with the instructor at least **once** per week, work in EdReady each week for the duration of the course, and attend at least 12 scheduled class meetings. Failure to do so will result in the student possibly 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 from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior. 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.

South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here: <https://www.southplainscollege.edu/syllabusstatements/>.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: <https://www.southplainscollege.edu/emergency/covid19-faq.php>.

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.



Course Information Sheet - NCBM 0105.162 – Fall 2020

Instructor: Denise Johansen

Office: LBK Downtown B020; (806)716-4632

Cell/Text: (513)227-0095

Email: djohansen@southplainscollege.edu

Time/Place: Tuesdays, 5:30pm-6:45pm/Lubbock Downtown Center B003

Lubbock Downtown Center Office Hours: M 2:30-3:30pm, T 1-2pm and 5-5:30pm, W 2:30-3:30pm and 5-5:30pm, Th 1-2pm, most Fridays 9-11am.

By appointment: Schedule virtual office hours using <https://go.oncehub.com/djohansen>

Textbook: No textbook is required for this course; all course work will be done on the EdReady website; use the link in your course in Blackboard on the Course Content page.

Attendance Policy: This is not a traditional face-to-face course; you will be working at your own pace and on your own schedule at the EdReady website, AND you will be attending one class per week. Until the coursework is completed, you will be required to login to make progress on your Study Path, attend class, AND communicate with me **at least once per week** for the duration of this course. Failure to make progress AND contact me at least once per week for two weeks in a row may result in you being administratively dropped from the course with a grade of 'F' or 'X'. You can contact me by coming to see me in my office during posted face-to-face office hours, by scheduling a Zoom virtual office hour appointment, by email, by phone, or by text.

Supplies: Access to a computer with an internet connection is required for this course. Please bring it with you to class each week. You will also need a notebook and pencils for taking notes and working out problems.

Technology: If you need assistance with getting a computer and/or internet connection, please check out [this document](#) for instructions on how to check out a laptop, wireless internet hotspot, or webcam. It also gives locations around the SPC campuses where you can access the school wireless network from your car.

Grading:

1. EdReady will evaluate the student's mastery of each math concept and provide the student with a score between 0 and 100.
2. 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).

3. 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.
4. The student will schedule a time with the instructor to meet face-to-face for the written assessment (final exam).
5. Performance on this final exam assessment will result in a pass or fail grade for the course.
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 the Final Exam on **Tuesday, May 9th at 5:30pm-7:30pm.**

Last day to drop is Thursday, April 27th.

SPC School Holidays:

Monday-Friday, 3/13-3/17, Spring Break
Friday, 4/7, Easter Break

Cellphones: To limit disruptions to the class and distractions to yourself, please put your cellphone on silent mode or airplane mode. If you feel a call is an emergency that you must answer, please take the phone out in the hall before answering to minimize the disruption to the class. If you feel you must leave class, please do so as quietly as possible.

Daily Health Screening: It is critical that you honestly self-screen and STAY HOME if you are experiencing any of the following: fever, cough, chills, muscle pain, shortness of breath or difficulty breathing, new loss of taste or smell, or a sore throat. CONTACT ME if you are having any health issues that interfere with attending class, taking your exams, or completing other assignments on time.

Student Dress: Reasonable standards of decency apply to the college community. The student should dress in a manner which does not distract from the academic atmosphere. Revealing attire or clothing carrying obscene or offensive slogans is not permitted. In all academic buildings, classrooms, offices, the Student Center, and dining facilities, students are required to wear masks, shirts, and shoes.

Language: Please be respectful of others and use language that is appropriate to the workplace. In discussions that are face-to-face or online in Blackboard, remember that you are addressing a group. On discussion boards, even though you don't see the other students when you are posting in Discussions, they will be reading. This means several things:

- Don't say/write things that you wouldn't say/write publicly (face-to-face).
- Don't address comments to individuals unless you want all to know what you are telling that person.
- Don't share confidential information. If you are quoting from something another person has sent you personally, ask their permission first.
- Read your message before you send it since once it is out there, you can't change it.

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: **Johansen0105Spring23** 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

Getting Help with the Course: Just because most of the work for this class is completed online, that doesn't mean you are on your own! If you are stuck on anything, please reach out for help one of the following ways:

- Contact your instructor by phone, email, text, or dropping by the Lubbock Downtown Center during office hours.
- Schedule a Zoom virtual meeting with your instructor by going to <https://go.oncehub.com/djohansen>
- **SPC Tutors** - Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the link below to learn more about how to book an appointment, view the tutoring schedule, get to know the tutors, and view tutoring locations.
<http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>
- **Tutor.com** - You also have 180 FREE minutes of tutoring with tutor.com each week, and your hours reset every Monday morning. Log into Blackboard, click on the tutor.com link on the left-hand tool bar and grab a session with a tutor. You can access tutor.com tutors during the following times:
Monday – Thursday: 8pm-8am
6pm Friday – 8am Monday morning

Week	Day	Date	Lesson Topic / Assignment
1	Mon-Fri	January 16-21	<ul style="list-style-type: none"> Log in to the course using the link in Blackboard. Use the goal key Johansen0105Spring23 to get started in the course. Complete the initial diagnostic test.
2	Mon-Fri	January 23 -27	Complete Topics 1-6 in the Whole Numbers Unit <ol style="list-style-type: none"> Place Value and Names for Whole Numbers Rounding Whole Numbers Comparing Whole Numbers Adding Whole Numbers and Applications Subtracting Whole Numbers and Applications Estimation
3	Mon-Fri	January 30 -February 3	Complete Topics 7-12 in the Whole Numbers Unit <ol style="list-style-type: none"> Multiplying Whole Numbers and Applications Dividing Whole Numbers and Applications Properties and Laws of Whole Numbers The Distributive Property Understanding Exponents and Square Roots Order of Operations
4	Mon-Fri	February 6 - 10	Complete Topics 1-5 in the Fractions & Mixed Numbers Unit <ol style="list-style-type: none"> Intro to Fractions and Mixed Numbers Proper and Improper Fractions Factors and Primes Simplifying Fractions Comparing Fractions
5	Mon-Fri	February 13 - 17	Complete Topics 6-9 in the Fractions & Mixed Numbers Unit <ol style="list-style-type: none"> Multiplying Fractions and Mixed Numbers Dividing Fractions and Mixed Number Adding Fractions and Mixed Numbers Subtracting Fractions and Mixed Numbers
6	Mon-Fri	February 20 - 24	Complete the 5 topics in the Decimals Unit <ol style="list-style-type: none"> Decimals and Fractions Ordering and Rounding Decimals Adding and Subtracting Decimals Multiplying and Dividing Decimals Estimation with Decimals
7	Mon-Fri	February 27 – March 3	Complete the 2 topics in the Ratios, Rates, and Proportions Unit <ol style="list-style-type: none"> Simplifying Rations and Rates Understanding Proportions
8	Mon-Fri	March 6 - 10	Complete the 2 topics in the Percent Unit <ol style="list-style-type: none"> Convert Percent, Decimals, and Fractions Solving Percent Problems
9	Mon-Fri	March 20 - 24	Complete Topics 1-5 in the Real Numbers Unit <ol style="list-style-type: none"> Variables and Expressions Integers Rational and Real Numbers Adding Integers Adding Real Numbers
10	Mon-Fri	March 27 - 31	Complete Topics 6-9 in the Real Numbers Unit <ol style="list-style-type: none"> Subtracting Real Numbers Multiplying and Dividing Real Numbers Associative, Commutative, and Distributive Properties Order of Operations
11	Mon-Fri	April 3 - 7	Complete the 1 topic in the Solving Equations Unit <ol style="list-style-type: none"> Solving One-Step Equations Using Properties of Equality

12	Mon-Fri	April 10 - 14	<p>Complete Topics in the Exponents and Polynomials Unit</p> <ol style="list-style-type: none"> 1. Introduction to Single Variable Polynomials 2. Adding and Subtracting Polynomials 3. Multiplying Polynomials 4. Multiplying Special Cases 5. Dividing by a Polynomial
13	Mon-Fri	April 17 - 21	<p>Complete Topics in the Factoring Unit</p> <ol style="list-style-type: none"> 1. Greatest Common Factor 2. Factoring Trinomials 3. Factoring Special Cases 4. Factoring Cubes 5. Solve Quadratic Equations by Factoring
14	Mon-Fri	April 24 - 27	<p>Complete Topics in the Geometry Unit</p> <ol style="list-style-type: none"> 1. Figures in 1 and 2 Dimensions 2. Perimeter and Area
15	Mon-Fri	May 1 - 4	<p>Complete Topics in the Radical Expressions and Quadratic Equations Unit</p> <ol style="list-style-type: none"> 1. Complex Numbers 2. Operations with Complex Numbers <ul style="list-style-type: none"> • This course must be completed by Friday, May 4 in order to schedule your final exam. • Schedule your Final Exam
16		May 8-12	Final Exam