Department of Mathematical Sciences

READ THIS SYLLABUS CAREFULLY. YOU ARE RESPONSIBLE FOR KNOWING THIS INFORMATION!

Prerequisite: Placement examination, a grade of C– or higher in MATH 099, SAT scores of 500-540.

Course Description: MATH 101 is the second in a two-course sequence in elementary and intermediate algebra (MATH 099/MATH 101) designed to provide students with a foundation to study college level mathematics. MATH 101 carries three credits that count toward meeting the minimum number of credits required for graduation but do not satisfy the general education requirement. Mastery of material in this course is necessary for success in mathematics and statistics courses with numbers greater than 100 and for courses in the natural and social sciences.

You must earn a C– or higher in MATH 101 to meet the prerequisite for any Skill Area II general education course.

The major goals of this course are:

a. to gain an appreciation for the role variables play in constructing mathematical models;
b. to use tables, graphs, and equations to model mathematical situations;
c. to gain facility in using the symbolism of algebra to solve equations and find equivalent expressions;
d. to gain facility in solving word problems; and
e. to gain an appreciation for the applications of algebra to a wide variety of “real world” situations.

Instructor: Professor Paul Mallia

Email: pmallia@ccsu.edu

Office: In computer room

Office Hours: one hour before class and half hour after class


Coverage: In MATH 101 you are responsible for all of the material in Chapters 7-12 except for the optional sections marked with an asterisk (*). The six chapters will be covered in the order
they appear in the text. Each section has 25 problems at the end, 15 new problems and 10 skill and review problems.

*Problems will be assigned at the teacher's discretion and you are expected to work all of them.*

**Class Meeting Times:** This class meets for 150 minutes of instruction per week:

*MW 3pm to 430*

Attendance will be taken (if attendance is required).

**Course Requirements:** Attend and participate in class regularly; complete homework assignments; take quizzes and tests, as scheduled. A general rule for any college course is that you are expected to put in at least 2 hours of work outside of class for every hour in class. For MATH 101, the expectation is at least 6 hours per week outside of class.

**Calculator Use:** Graphing calculators are required for MATH 101. The textbook is based on the TI-82 and the TI-83, and I will be using one of these in class. Please let me know if you are using some other calculator, and I can help you make adjustments.

**Electronic Devices Policy:** Cell phones, laptops and PDA’s are not to be used during class, exams, or quizzes unless special accommodations are necessary.

**University Policies:**

1. You must take the final examination at the time specified in the course selection book *add time appropriate for your section.*

2. Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Natalie Stimpson-Byers in Student Disability Services at: (860) 832-1957, Willard Hall, Room 101-04, if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty.

3. All students are expected to demonstrate integrity in the completion of their coursework. Academic integrity means doing one's own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.
For further information on academic misconduct and its consequences, please consult the Student Code of Conduct (http://www.ccsu.edu/StudentConduct) and the Academic Misconduct Policy (http://www.ccsu.edu/AcademicIntegrity).

4. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message.”

5. The last day to withdraw from a course and receive the grade of “W” is Tuesday, November 19th. Approvals for withdrawal prior to this date are not required; however, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of a student’s intention to drop the course. After November 19th withdrawals are allowed only under extenuating circumstances and require approval of the course instructor and department chair (in that order).

Resources Available:

1. If you need help, take advantage of your instructor's office hours. Do not wait until just before the first test to do so.

2. Free tutoring is available in The Learning Center -- located in Willard Hall, Room 101. They can be reached at (860) 832-1900. A schedule for the hours the Center is open will be posted soon after the beginning of the semester.

3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.

4. A list of private tutors for hire is available in the Math Department office, Room 107 Marcus White, (860) 832-2835.

Evaluation

Minimum averages have been established for each of these grades:

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<thead>
<tr>
<th>Grade</th>
<th>Minimum Average</th>
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<tbody>
<tr>
<td>A</td>
<td>93%</td>
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<tr>
<td>A-</td>
<td>90%</td>
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<tr>
<td>B+</td>
<td>87%</td>
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<tr>
<td>B</td>
<td>83%</td>
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<td>B-</td>
<td>80%</td>
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<tr>
<td>C+</td>
<td>77%</td>
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<tr>
<td>C</td>
<td>73%</td>
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<td>C-</td>
<td>70%</td>
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<td>D+</td>
<td>67%</td>
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<tr>
<td>D</td>
<td>63%</td>
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<tr>
<td>D-</td>
<td>60%</td>
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The average for the course will be based on the following weights:
Evaluative Criteria: **Grade:**

Total points for Term:
- 4 Tests = 100 points each
- 6 Quizzes = 50 points
- Homework = 50 points (5 points each)
- Classwork = 50 points (5 points each)
- Dept Final = 200 points (25% of final grade)

Total points received/Total points possible = 75% of grade for term

*Instructor's evaluation based on hour tests (at least three) and quizzes/class assignments/homework*

*The exact weighting of these factors is up to the instructor*

75%

Department Final Examination

25%

Total

100%

The final exam is set by the Department and consists of 30% skills and 70% graphs and problem solving.

**Note:** In order to earn a grade of C- or better for the course, you must earn a score of at least 60% on the final exam.

**Schedule of Important Dates**

**Wednesday Jan 20th**

- Syllabus
- Basic Topics Review

**Monday Jan 25th**

- Sec 7.1 Solving Quadratics

**Wednesday Jan 27th**

- Sec 7.2 Parabolas
- Quiz 1
Monday  Feb 1st
Sec 7-3 Quadratic Formula
Quiz 2

Wednesday  Feb 3rd
Test 1

Monday  Feb 8th
Sec 8.1-8.2 Graphs of Functions

Wednesday  Feb 10th
Sec 8.3 Important Functions
Quiz 3

Monday  Feb 15th
Sec 8.4 Functions IV
Quiz 4

Wednesday  Feb 17th
Test 2

Monday  Feb 22nd
Sec 9.1 rational exponents and radicals

Wednesday  Feb 24th
Sec 9.2 power functions and their graphs
Quiz 5

Monday  Feb 29th
Sec 9.3 direct variation
Quiz 6
Wednesday Mar 2\textsuperscript{nd}

Test 3

Monday Mar 7\textsuperscript{th}

10-1 exponential growth

Wednesday Mar 9\textsuperscript{th}

Sec 10.2 exponential decay
Quiz 7

Monday Mar 14\textsuperscript{th}

Sec 10-3 Logarithms
Quiz 8

Wednesday Mar 16\textsuperscript{th}

Sec 10.4 log scales
Quiz 9

Monday Mar 21\textsuperscript{st} to Mar 25\textsuperscript{th}

****  Spring Break (no classes)

Monday Mar 28\textsuperscript{th}

Test 4

Wednesday Mar 30\textsuperscript{th}

11.1 rational expressions

Monday Apr 4\textsuperscript{th}

11.2 rational functions and their graphs
Quiz 10
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<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>Apr 6th</td>
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<td></td>
<td>Sec 11.3 solving rational equations</td>
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<td>Quiz 11</td>
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<td>Monday</td>
<td>Apr 11th</td>
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<td>Sec 11.3 direct variation</td>
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<td>Quiz 12</td>
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<td>Wednesday</td>
<td>Apr 13th</td>
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<td>Sec 11.4 indirect variation</td>
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<td>Quiz 13</td>
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<td>Monday</td>
<td>Apr 18th</td>
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<td>Test 5</td>
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<td>Wednesday</td>
<td>Apr 20th</td>
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<td>Sec 12.1 Inequalities</td>
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<td>Monday</td>
<td>Apr 25th</td>
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<td>Sec 12.2 solving nonlinear inequalities by graphing</td>
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<td>Quiz 14</td>
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<td>Wednesday</td>
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<td>Sec 12-3 Systems of equations</td>
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<td>Quiz 15</td>
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<td>Monday</td>
<td>May 2nd</td>
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<td>Final exam review part 1</td>
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<td>Wednesday</td>
<td>May 4th</td>
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<td>Final exam review part 2</td>
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<tr>
<td>Monday</td>
<td>May 9th</td>
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<td></td>
<td>Final Exam</td>
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4. **Statement on Discrimination and Harassment**
Central Connecticut State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about should contact the Office of Diversity and Equity (ODE) at 860-832-1652, Student Affairs at 860-832-1601, or his/her faculty member. The ODE is located on the main floor of Davidson Hall, room 102.

5. **Sexual Misconduct, Intimate Partner Violence and Stalking**
Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the CCSU policies at [http://www.ccsu.edu/page.cfm?p=1333](http://www.ccsu.edu/page.cfm?p=1333).

**Note:** All faculty members and staff have a duty to report incidents of sexual harassment including sexual violence to Rosa Rodriguez, Title IX Officer, Office of Diversity and Equity, Davidson Hall, 102.

**To file a report contact:** Diversity and Equity (860-832-1652); Student Affairs (860-832-1601); Student Conduct (860-832-1667) or the University Police (860-832-2375).

**For support and advocacy contact:** Student Wellness Services at 860-832-1945 (confidential), the Women’s Center at 860-832-1655, the local YWCA’s Sexual Assault Crisis Services Hotline at 860-223-1787 (confidential) and Prudence Crandall Center for Domestic Violence (confidential) at 888-774-2900 (24-hour hotline).