

**CENTRAL CONNECTICUT STATE UNIVERSITY**  
**DEPARTMENT OF MATHEMATICAL SCIENCES**  
**Fall 2010**

**COURSE:** MATH 101 (05)  
**TITLE:** INTERMEDIATE ALGEBRA

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

**Prerequisite:** SAT Math score, placement examination, or a grade of C- or higher in MATH099.

**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:

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

**Instructor:** Tatiana Gotcheva

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**Office:** Marcus White 103

**Office Hours:** MWF 9:40-10:50 AM, 12:00 –12:20 PM, or by appointment.

**Textbook:** Elementary and Intermediate Algebra: A Practical Approach by T. Craine, J. McGowan, and T. Ruben, published by Houghton Mifflin (ISBN 0-618-10337-6).

Note: This textbook is used for both MATH 099 and MATH 101.

**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 20 problems at the end, 15 new problems and 5 skill and review problems. All problems will be assigned and you are expected to work all of them.

Whether or not you took MATH 099 here at CCSU, it is a good idea to review Chapters 1 through 6 to be sure that you remember the main ideas of elementary algebra. A guide for doing this is found on pages 503-508 the textbook.

**Class Meeting Times:** This class meets for 150 minutes of instruction per week:  
**MWF 11:00 AM – 11:50 AM in MS 216.** Attendance will be taken.

**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, TI-83, and TI-84, 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. Except for calculators, other electronic devices, including cell phones, may not be used in class or during examinations.

**Electronic Devices Policy:** Cell phones, laptops, MP3's, PDA's, or any form of personal electronic or communication devices, 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 on **Monday, December 13, 11:00-1:00 PM.**
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 Student Disability Services, room 241, Copernicus Hall 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. 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."

4. The last day to withdraw from a course is Monday, October 25. Approvals for withdrawal 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 October 25 withdrawals are allowed only under extenuating circumstances and require approval of the course instructor, department chair and dean of the School of Arts and Sciences.
5. You are responsible for understanding and abiding by the University's policy on academic integrity. Information on the policy may be found at <http://www.ccsu.edu/AcademicIntegrity/>. This policy is rigorously enforced by the Department of Mathematical Sciences.

**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. The Learning Center is located in Room 241, Copernicus. Free tutoring is available in Room 242, Copernicus, and at other locations on campus. A schedule for 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, 832-2835.

**Evaluation:**

Minimum averages have been established for each of these grades:

A	93%	B+	87%	C+	77%	D+	67%
A-	90%	B	83%	C	73%	D	63%
		B-	80%	C-	70%	D-	60%

The average for the course will be based on the following weights:

<b>Three Tests</b>	<b>42%</b>
<b>Six take-home exams</b>	<b>23%</b>
<b>Online quizzes</b>	<b>10%</b>
<b>Department Final Exam</b>	<b>25%</b>
<b>Total</b>	<b>100%</b>

6. There will be **three tests** during the semester, **six take-home exams (THE)**, **online quizzes for each chapter**, and a cumulative final exam on **Monday, December 13, 11:00-1:00 PM**. The examination problems on the final will be similar to those solved in class, given on the tests, or on the take-home exams. In the list below you can find a tentative timetable with the numbers of all sections to be covered, the dates of all exams, and the due dates of all take-home exams.

7. **Policy Statement on Academic Misconduct**

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>).

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

**Note: In order to receive the grade of C- or better for the course, it is departmental policy that your grade on the final exam should be at least 60%.**

Copies of sample final exams will be available for you to study.

Since the final examination will count for 25% of the overall average, the grade you actually need on the final exam will depend upon your average going into the final.

If your average going into the final is:	Then on the final you will need at least:
73.3% or above	60%
70%	70%
65%	85%
60%	100%.

Therefore, in order to provide a margin of safety, **you should aim for an overall average of at least 73.3% going into the final exam.**

## Suggested Homework Assignments and Tentative Time Table

<b>Week</b>	<b>Section</b>	<b>Homework Assignments</b>
<b>8/30 – 9/3</b>	<b>7.1</b>	<b>6, 10, 12, 13, 15</b>
	<b>7.2</b>	<b>5, 7, 10, 13, 14</b>
<b>9/8 – 9/10</b>	<b>7.3</b>	<b>4, 5, 11, 13, 15</b>
	<b>7.4</b>	<b>3, 4, 5, 6, 13</b>
<b>9/13 – 9/17</b>	<b>8.1</b>	<b>5, 7, 8, 9</b>
	<b>8.2</b>	<b>8, 12, 13, 14, 15</b> <b>Due date for take-home exam 1, Friday, September 17</b>
<b>9/20 – 9/24</b>	<b>8.3</b>	<b>10, 11, 14, 15</b>
	<b>8.4</b>	<b>3, 8, 10, 11</b>
<b>9/27 – 10/1</b>	<b>Review for Test 1</b>	
	<b>9.1</b>	<b>7, 9, 12, 14, 15</b>
	<b>Test 1 (chapters 7 and 8), Friday, October 1</b> <b>Due date for take-home exam 2, Friday, October 1</b>	
<b>10/4 -10/8</b>	<b>9.1</b>	
	<b>9.2</b>	<b>5, 8, 9, 10</b>
	<b>9.3</b>	<b>4, 6, 12, 17, 20</b>
<b>10/11 -10/15</b>	<b>10.1</b>	<b>11, 14, 15, 16, 17</b>
	<b>10.2</b>	<b>9, 10, 12, 14, 15</b> <b>Due date for take-home exam 3, Wednesday, October 13</b>
	<b>10.3</b>	<b>3, 9, 11, 12,16</b>
<b>10/18 -10/22</b>	<b>10.3</b>	
	<b>10.4</b>	<b>1, 2, 4, 7, 17, 18</b>
	<b>Review for Test 2</b>	
<b>10/25 -10/29</b>	<b>Test 2(chapters 9 and 10), Monday, October 25</b> <b>Due date for take-home exam 4, Monday, October 25</b>	
	<b>11.1</b>	<b>7, 8, 13, 14, 15</b>
	<b>11.2</b>	<b>6, 7, 8, 9, 10, 11, 17, 18</b>
<b>11/1 -11/5</b>	<b>11.2</b>	
	<b>11.3</b>	<b>7, 8, 9, 10, 12, 19</b>
<b>11/8 –11/12</b>	<b>11.4</b>	<b>11, 12, 13, 16, 17</b>
	<b>12.1</b>	<b>9, 10, 11, 13, 14</b>
<b>11/15 - 11/19</b>	<b>12.2</b>	<b>10, 11, 12, 14, 16, 17</b> <b>Due date for take-home exam 5, Monday, November 15</b>
	<b>12.3</b>	<b>11, 12, 13, 15, 20</b>
<b>11/22</b>	<b>Review for Test3</b>	
<b>11/29 – 12/3</b>	<b>Review</b>	
	<b>Test 3 (chapters 11 and 12), Wednesday, December 1</b> <b>Due date for take-home exam 6, Wednesday, December 1</b>	
<b>12/3 – 12/6</b>	<b>Review the whole material covered</b>	
<b>12/8</b>	<b>Final exam Part 1, Wednesday, December 8</b>	
<b>12/13</b>	<b>Final Exam Part 2, Monday, December 13, 11:00-1:00 PM</b>	