MATH 102 - Applied Algebra

Prerequisite: MATH 099 (C- or higher), or MATH 102combo (D-, D, D+), or placement exam

This is a three credit-hour course. It carries 3 credits towards graduation that also count towards Skill Area II (General Education requirement).

MATH 102, Applied Algebra, is designed to strengthen basic algebraic reasoning skills but does not provide adequate preparation for pre-calculus. If your intended major requires MATH 116 or MATH 119, you will need to take MATH 103 next. It is a pre-requisite for those courses.

What grade do you need to earn?
You must earn a B– or better in this course in order to satisfy the prerequisite for:
  MATH 115, 124, 125,
  CHEM 161.
You must earn a C– or better in this course in order to satisfy the prerequisite for any
other course with a MATH 102 prerequisite including but not limited to:
  MATH 105, 106, 110, 113, 123
  STAT 104, 200, 215.
A final grade of D–, D, or D+ in MATH 102 earns you 3 Skill Area II credits, but will not satisfy
prerequisite requirements for any course with a MATH 102 prerequisite.

The major goals of this course are:
  • To strengthen a growth mindset and flexible thinking in math and problem
    solving.
  • To achieve a deeper understanding of numbers and operations.
  • To understand and apply mental math strategies for estimating and
calculating without a calculator.
  • To understand, analyze, and create models for algebraic reasoning and
    problem solving.
  • To express relationships among quantities in symbolic algebra.
  • To reason and problem-solve with proportions and percentages using models
    and symbolic algebra.
  • To comprehend, use, and create geometry formulas for measures of simple
    or composite figures.
  • To evaluate and apply appropriate units of measure for different types of
    quantities.
  • To gain an appreciation for the role variables play in constructing
    mathematical models.
  • To create tables, graphs, and equations to model mathematical situations.
  • To evaluate mathematical models and determine valid domain and range
    values.
  • To appreciate and analyze applications of algebra to a wide variety of real-
    world situations.

University Policies:
The link to the university policies is CCSU Policies and Procedures

Calendar of Important Dates:
Here is the link to the CCSU Academic Calendar: https://webcapp.ccsu.edu/?mm=universityCalendar
Classes meet at 5:55pm every TR in Maria Sanford Rm 323
Last day for full-time students to withdraw from university and get 100% refund August 25.
Classes begin on August 26
Last day for part-time students to drop course and get 100% refund September 1
Last day to drop without a "W" September 15
Exam 1 on Tuesday, September 21
Exam 2 on Tuesday, October 19
Exam 3 on Tuesday, **November 9**  
Last day to withdraw without permission on Monday, **November 17**  
Exam 4 on Thursday, **December 2**  
Last day of classes on **December 7**  
Final Exam **December 9.** (5:30pm to 7:30pm)

**Course Expectations:**

- **Attend and participate** in every class, and be on time.
- **Come to class prepared** with your workbook, notebook, folder, calculator, and pencils/pens. Bring specific questions!
- **Turn phones off and put them away.** They should be out of sight and mind (not in your lap/pocket!) so you can focus on class.
- **Watch all videos carefully and take notes** - you'll likely have to review parts of them more than once to learn deeply.
- **Make repeated attempts on all homework** assignments; take quizzes and tests as scheduled.
- **Take responsibility** - complete all your work and keep to a schedule so that you do not fall behind.
- **Put in at least 6 hours every week outside of class** to watch videos, do homework and to study.

If you are having trouble with the class, first ask yourself,

"Am I putting in at least 6 hrs./wk.?”

"What else can I do to understand the material on my own?"

"What specific questions will I ask in class?"

**Academic Integrity:**

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. The Department of Mathematical Sciences rigorously enforces this policy. Don't cheat; it's not worth it.

For further information on academic misconduct and its consequences, please consult the Student Code of Conduct ([http://www.ccsu.edu/StudentConduct/codeofconduct.asp](http://www.ccsu.edu/StudentConduct/codeofconduct.asp)) and the Academic Misconduct Policy ([http://www.ccsu.edu/AcademicIntegrity/](http://www.ccsu.edu/AcademicIntegrity/)).

**Student Behavior** - Taken from the BOR/CSCU STUDENT CODE OF CONDUCT  
[https://web.ccsu.edu/studentconduct/files/Student%20Code%20of%20Conduct%202015.15.pdf](https://web.ccsu.edu/studentconduct/files/Student%20Code%20of%20Conduct%202015.15.pdf)

All members of CSCU must at all times govern their social and academic interactions with tolerance and mutual respect...Because of the BOR’s and CSCU's commitment to principles of pluralism, mutual respect, and civility, certain activities are not acceptable on CSCU campuses.
Please be aware that any violations of this Code of Conduct will result in a report of misbehavior to the Office of Student Conduct. Severe violations can result in dismissal from CCSU.

Assessment / Grades:

- To pass this course with a grade of C- or higher, you must satisfy ALL of the following:
  - pass every online homework quiz with 60% or higher,
  - pass the final exam with 60% or higher,
  - earn an overall course average of 70% or higher.

Minimum Course Average Required:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>A</th>
<th>A−</th>
<th>B+</th>
<th>B</th>
<th>B−</th>
<th>C+</th>
<th>C</th>
<th>C−</th>
<th>D+</th>
<th>D</th>
<th>D−</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum %</td>
<td>93</td>
<td>90</td>
<td>87</td>
<td>83</td>
<td>80</td>
<td>77</td>
<td>73</td>
<td>70</td>
<td>67</td>
<td>63</td>
<td>60</td>
<td>&lt; 60</td>
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NOTE 1: If one of your homework quizzes or your final exam score is below 60%, then the highest final grade you can earn is D+, regardless of the overall course average.

HOMEWORK - 20%
Homework makes up 20% of your final grade and consists of online homework quizzes and may also include written assignments, quizzes, class participation, etc. Each online homework quiz has a due date and a time limit, but may be reattempted an unlimited number of times. As long as an online homework quiz is attempted once before the due date, you are allowed to continue making attempts on it after the due date to improve your grade. The online homework quizzes are part of your assessment in this course, like exams, but they are also a way to prepare for exams. You should be able to earn 60% or better on your own on the online homework quizzes in order to be prepared. If you are having trouble achieving these scores on your own, get help immediately. Be proactive! Don’t wait!

EXAMS - 50%
There will be 4 in-class exams during the semester, each worth 12.5%.

FINAL EXAM - 30%
The Final Exam is on campus during the university-scheduled exam time, and counts for 30% of the final grade.

NOTE 2: Cheating is a serious offense that may result in your removal from the university. All instances of academic misconduct will be reported to the Office of Student Conduct.

NOTE 3 You are NOT allowed to reproduce or repost exams or other teaching materials! It is illegal.

EXTRA CREDIT and MAKEUP POLICIES
There are NO makeups and NO extra credit to improve an exam grade or the course average. If you miss an exam for any reason, there is NO makeup. If an exam is missed during the semester, the final exam will be used to replace the grade only ONCE. If you miss more than one exam then grades of zero will be entered for all missed exams after the first one.

Exam scores stand as originally graded. There will be no extra credit or other assignment by which you can bring up an exam score.
Here is the university policy for incomplete work:
"If circumstances beyond the student's control prevented the student from completing certain work or caused the student to miss the final exam, a faculty member MAY issue a final grade of Incomplete. The INC grade will change to an F grade eight weeks into the following semester for undergraduates and after one year for Graduate students."
Students must provide proof of extenuating circumstances beyond their control (hospitalization for example) in order to ask for an Incomplete.

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