Intermediate Algebra
Fall 2018

Intermediate Algebra - 40428 - FNMT 118 - 122

Time: 6:30 - 9:35 pm, Thursday

Room 228
SYLLABUS

Catalog description. Real numbers, polynomials, rational expressions, algebraic expressions, linear equations and inequalities in one variable, absolute value equations and inequalities, linear equations in two variables, graphs of lines, systems of linear equations in two variables, quadratic equations in one variable, problem solving. A Departmental Exam is required with no calculators allowed.
Prerequisite: FNMT 017, or FNMT 118 (or higher) placement.

Learning Outcomes.

Upon successful completion of this course, students will be able to:

1. Add, subtract, multiply, divide and factor polynomials
2. Add, subtract, multiply, divide and reduce rational expressions
3. Solve linear equations and inequalities in one variable
4. Solve absolute value equations in one variable
5. Graph linear equations and determine equations of lines
6. Solve 2 x 2 linear systems
7. Solve quadratic equations in one variable


Web Resource: www.coursecompass.com. You will get the ID for this web resource when you buy the book.

The complete procedure how to access the Web Resource is described in your book in the message to the Students.

Instructor: Dr. Arkady Kitover.

Email: (the best way to contact me) akitover@ccp.edu or akitover@hotmail.com

Web Page: http://faculty.ccp.edu/FACULTY/akitover
The web page contains the syllabus for this course and practice tests.

Office: 327
Office hours: TR 5 pm - 6:25 pm, W 5 pm – 6 pm
<table>
<thead>
<tr>
<th>Week #</th>
<th>Sections</th>
<th>Topics and Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.1-1.4</td>
<td>Real Numbers (1.1-1.4) . Recommended Homework: Chapter 1 Test, p. 47</td>
</tr>
<tr>
<td>2</td>
<td>2.1-2.3</td>
<td>Equations. Recommended Homework: Chapter 2 Test, p. 116 Problems 1-6, 11-13, and 23 -28</td>
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<tr>
<td>3</td>
<td>2.4-2.6</td>
<td>Linear Inequalities; Equations and Inequalities with absolute value. Recommended Homework: Chapter 2 Test, p. 116 Problems 7-10 and 14 – 22. Review 1</td>
</tr>
<tr>
<td>4</td>
<td>3.1-3.3</td>
<td>Exam #1 (on Chapters 1 and 2). Begin: Graphs and Functions Recommended Homework: Chapter 3 Test, p. 202 Problems 1-5 and 22-23.</td>
</tr>
<tr>
<td>5</td>
<td>3.4 - 3.5</td>
<td>Equations of Straight Lines; Functions and Relations. Recommended Homework: Chapter 3 Test, p. 202 Problems 6,7, and 10 -18.</td>
</tr>
<tr>
<td>6</td>
<td>4.1 and 4.3</td>
<td>Systems of Linear Equations. Recommended Homework: Chapter 4 Test, p. 256 (except Problems 10 and 15) Review 2</td>
</tr>
<tr>
<td>7</td>
<td>5.1-5.2</td>
<td>Exponents and scientific notation. Recommended Homework: Chapter 5 Test, p. 338 Problems 1-8. Exam #2 (on Chapters 3 and 4)</td>
</tr>
<tr>
<td>8</td>
<td>5.3-5.7</td>
<td>Polynomials. Adding, subtracting, and multiplying polynomials. Dividing and Factoring Polynomials. Recommended Homework: Chapter 5 Test, p. 338 Problems 9 – 24.</td>
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<tr>
<td>11</td>
<td>7.1, 7.2</td>
<td>Begin: Radical Expressions Exam #3 (on Chapters 5 and 6) Recommended Homework: Chapter 7 Test, p. 478 Problems 1-8.</td>
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| 12 | 7.3-7.6 | Radical Exponents, Radicals and Radical Equations  
|    |        | Recommended Homework: Chapter 7 Test, p. 478  
|    |        | Problems 11-24, 31, and 32.            |
| 13 | 8.2  | Solving Quadratic Equations by Using the Quadratic Formula.  
|    |        | Recommended Homework: Chapter 8 Test, p. 541  
|    |        | Problems 1-7.                          |
| 14 | Review Only | Review for the Final Exam        |
| 15 | Exam Only | **Final Exam**                     |
Tests and Grading: Three tests in class – 100 points each.
Cumulative final – 100 points. The final will be administered in a computer room.
The details about the final will be posted by the department later in the semester.
You will be able to access a practice test for the final approximately 9 weeks after
the semester starts.

A: 90 -100 % (360 – 400)
B: 80 – 89 % (320 – 359)
C: 70 – 79% (280 – 319)
D: 60 – 69% (240 – 279)
F: 0 – 59%(0 – 239)

All students must take the FNMT Departmental examination. The
FNMT Departmental examination shall count for at least 25% of each student’s
final grade.

A student who does not take the Departmental Final Exam may only be
assigned a grade of F or I (Incomplete). A student cannot receive any other grade
(A, B, C or D) without taking the Departmental Final Exam. If a student, for a
legitimate reason, does not take the final exam, his/her make-up exam should be
scheduled with the FNMT Department Head, Dr. Gail Dixon.

Calculators are not allowed on the final exam.
The final exam shall combine multiple choice problems and open answer
problems.

Class Rules:
The students must attend all classes. Students missing an equivalent of two weeks
without a valid reason will be dropped from the class.

No food in the classroom.

You may not use electronic devices in the classroom for the purposes unrelated to
the class material (texting, surfing the web, et cetera). I will subtract 10 points from
your total sum of points for every violation of this rule.

Put your cell phones in the vibration mode before the class starts.

No use of cell phones is allowed during the tests.