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[Instructor:](#) See the **Instructor** link on your course Blackboard site for information regarding email address, office location, and office hours.

Text:

1. *Intermediate Algebra*, Bello & Hopf (Optional: Student Solutions Manual)
2. ALEKS Computer Tutorial student access code. It will be part of the package if you buy a new book. If you buy a used book, you must purchase an ALEKS access code.
3. MathZone Internet-based class work site student access code. It will be part of the package if you buy a new book. If you buy a used book, you must purchase a MathZone access code.

The USF Tampa Campus Bookstore has the textbook and the student access codes. **You must have all three.**

Course Content: Chapters 1-10 of the text will be covered.

Chapter 1:	The Real Numbers
Chapter 2:	Linear Equations & Inequalities
Chapter 3:	Graphs and Functions
Chapter 4:	Solving Systems of Linear Equations & Inequalities
Chapter 5:	Polynomials
Chapter 6:	Rational Expressions
Chapter 7:	Rational Exponents & Radicals
Chapter 8:	Quadratic Equations & Inequalities
Chapter 9:	Quadratic Functions & the Conic Sections
Chapter 10:	Functions, Inverse, Exponential, and Logarithmic

Math Prerequisites: MAT 0024C with a grade of “C” or better, or appropriate score on placement test.

Technical Prerequisites:

Be able to work with the following hardware applications on a **PC**:

- Add plug-ins (AOL may not accept the regular download for the ALEKS plug-ins and you will have to do the manual download.)
- Contact and work with Technology help desk personnel (See **Getting Help** below)

Be familiar with the following types of software:

- Web browser (Internet Explorer 6 is recommended)
- Microsoft Word processor with Equation Editor
- Blackboard / Discussions Boards / Chat
- E-mail

To forward your USF email to the email address that you normally check:

1. Go to the USF Web email log-in at <https://mailbox.acomp.usf.edu/> and enter your net ID username, password, and USF mail server (mail.usf.edu for example)
2. This should take you to the inbox of your assigned USF email account. Select the “Options” link at the top and then the “Email Forwarding” link. Enter your email forwarding address in the box and click the “change settings” link.

Calculator: A scientific calculator is required for this course. You should not need a graphing calculator, but you are allowed to use one.

Primary Learning Goals: Topics include sets, functions, polynomial operations, factoring, absolute value, rational expressions, equations (linear, quadratic, radical, rational), systems of equations, inequalities, exponents, radicals, graphs of linear equations and inequalities in two variables, complex numbers and applications. Elective credit only. No credit given if student has prior credit for any MAC course.

Specific Course Objectives: In the respective topics below, the student will:

Equations and Inequalities

1. solve linear equations and inequalities
2. solve applications involving linear equations and inequalities
3. solve absolute value equations and inequalities
4. quadratic equations and applications involving quadratic equations
5. solve equations with rational expressions and applications involving rational expressions
6. solve equations with radicals and applications involving radical expressions.
7. solve systems of linear equations and applications involving systems of equations

Polynomials

8. perform operations involving polynomials
9. factor polynomials

Rational Expressions

10. perform operations involving rational expressions.
11. simplify a complex rational expression

Exponents and Radicals

12. simplify expressions with rational exponents and radicals
13. perform operations with expressions containing exponents and radicals

Complex Numbers

14. simplify complex numbers
15. perform operations with complex numbers

Graphs and Functions

16. graph a linear equation and inequality
17. graph a parabola
18. graph a circle
19. graph a system of equations or inequalities

20. identify a function, domain, and range
21. find the inverse function and graph it
22. perform operations with functions
23. find composite functions

Exponential and Logarithmic Functions

24. graph an exponential function
25. graph a logarithmic function
26. write logarithmic expressions in exponential form
27. write exponential expressions in logarithmic form
28. use their calculator to find common and natural logarithms

Final Exam: There will be a 2-hour **common final exam** (see the USF exam matrix at <http://www.registrar.usf.edu/ssearch/search.php>). This will be a cumulative departmental exam and *all* questions will be multiple choice. The common final exam counts as 10% of your grade. The remaining 90% of your grade will be specified in the grading policy (below).

Time Conflicts with the scheduled Final Exam time

- Students who normally work during the scheduled time of the final exam are expected to make arrangements with their employer to get time off.
- Students who have another final exam scheduled during this same time period will be permitted to take a makeup. You must submit proof that a conflict exists.
- Students who miss the exam for other reasons (serious illness, death in family, etc) will be considered on a case-by-case basis. In all cases verification of the student's excuse will be required; makeup's will be permitted only for circumstances deemed beyond the student's control. Students should contact their instructor *immediately* upon realizing they will miss the exam.

Miscellaneous Policies:

- Cheating will not be tolerated. The HCC College policy on Academic Integrity is explained in the Student Handbook at the following website http://www.thezonelive.com/zone/02_SchoolStructure/FL_HillsboroughCommunityCollege/Handbook.pdf
- Any student with a disability is encouraged to meet privately with the instructor during the first week of classes to discuss accommodations. The student must bring a current Memorandum of Accommodations from the Office of Student Disability Services (SVC 1133). This is a prerequisite for receiving accommodations. Exam accommodations through the Office of Student Disability Services require two weeks advance notice. All course handouts are available in alternate format if requested in the student's Memorandum of Accommodations.
- The last day to withdraw from this course and receive a tuition refund is **Sept 2** (by 5 p.m.)
- The last day to withdraw from this course and receive a grade of "W" is **Nov 4** (by 5 p.m.).
- A grade of "I" indicates incomplete work and will only be assigned when most of the coursework has already been completed with a passing grade. See the Student Handbook website mentioned above for further information.

Getting Help:

- There is a math Lab located in HMS 318. Lab Hours of Operation will be posted on the door and can be obtained from your instructor. Anytime there is a math instructor on duty, tutoring will be available as volume and time permits.
- There is a Student Solutions Manual available (optional) as a companion to the text.
- There are guided e-lessons and videos available with the internet resource, MathZone. (linked from our Blackboard course site)

- There are explanations available with the internet resource, ALEKS. (linked from our Blackboard course site)
- For technical help accessing ALEKS, you can email support@aleks.com
- Arrange to meet your instructor either in the Blackboard virtual classroom or chat or an on-campus meeting.
- Academic Computing located on the 6th floor of the Tampa Campus library will be available for student technical support: (974-1222) in Tampa or toll-free (1-866-974-1222 statewide), electronic mail (help-ac@usf.edu), walk-ins (LIB 608) and on-site services. To access online guides go to <http://www.acomp.usf.edu/help.html>, select the “Interactive Video Guides” link, and then choose your preferred guide.

Grading Policy:

- To maximize your learning you should spend at least two hours outside of class for every hour spent in class. Typically your homework will be the odd problems for each section covered in the course. The actual **Homework Assignment** list is included on the syllabus after the **SEMESTER SCHEDULE** below. The odd problems have answers in the back of the textbook so you should check your work.
- All USF courses including HCC classes at USF can be accessed on the Internet through a program called Blackboard. If you have never used Blackboard before, then see “**Using our Course Blackboard Site**” below.
- Part of the course requirement is to practice a minimum of 2 hours per week on the Internet-based math tutorial called **ALEKS**. To log in to the ALEKS tutorial for the first time using your student access code obtained with your textbook and the class course code, see the **ALEKS Log-in Prompts** below.
- Another Internet resource for guided instruction and videos is the **MathZone**. The required **10 Practice Chapter Tests** can be found there. To log in to the MathZone for the first time using your student access code obtained with your textbook and the class course code, see the **MathZone Log-in Instructions** below.

Your grade will be a composite of the following:

1. **Math Zone**-Homework is assigned to be completed on the computer at the Math Zone site. Also Practice Chapter Tests taken on computer at the **MathZone** internet site must be completed by the designated dates. If you take the tests after the due dates, your grade will not be counted.

MathZone Points

Computer homework	50
Practice Tests-10@10 pts each	100
Total	150

2. **Class Participation** – attendance, quizzes, assignments, group work, etc. Besides attendance, participation may include any of the following to be administered randomly during any scheduled class.
 - Attendance is mandatory. You are allowed two absences without penalty. For every absence after that, 2 points will be deducted from your Class Participation grade.
 - Pop Quiz during the first 5 minutes of class on a few of the assigned homework from the textbook (*No make-ups*)
 - Other Activities: Collect the entire homework assignment on any given class day or assign and grade a group activity to be done in class (*No make-ups*)

Class Participation Points

Attendance	28 @ 1 pt	28
Pop Quizzes	10 (drop 2 lowest): 8 @ 8 pts	64
Other Activities		8
Total		100

4. **12 ALEKS** computer tutorial weekly grades (logging a minimum of 2 hrs. per week)
 The **ALEKS** computer tutorial will be graded weekly beginning the second week of the semester. You will be given a weekly ALEKS grade that will be a composite of the hours logged in (minimum of 2 hours per week) and the amount of objectives mastered (minimum of 1 per week). Your ALEKS grade will also include a final ALEKS assessment. You will find that two hours per week probably won't be enough for you to successfully complete all the objectives in the ALEKS program. Practicing this program regularly has the potential to enhance your long-term memory, thus preparing you to perform well on the comprehensive final exam. The program can be accessed from the Internet and will automatically download some plug-ins the first time you log in. If you have AOL you may need to download the plug-ins manually. If you have technical difficulties with ALEKS, email support@aleks.com. Weekly ALEKS points will be assigned as indicated in the following table.

ALEKS Points

12 Weekly ALEKS Times	8 pts each week	96
12 Weekly ALEKS Objectives	2 pts each week	24
Final ALEKS Assessment		30
Total		150

5. **5 Chapter Tests** (dates on the **SEMESTER SCHEDULE** below) to be taken in class. There will be **no retakes or make-ups**. You may use your final exam grade to replace your lowest test grade or a missing test grade.
6. **Comprehensive Common Final Exam** (date on the **SEMESTER SCHEDULE** below)
 The final exam is a mandatory departmental multiple choice exam. It will be given during USF Exam Week.
7. **1 Personal Learning Evaluation Reflection** (extra credit)
 This is a one-page paper that you will be asked to write using correct spelling and grammar. The paper will include answers to questions and also some of your own personal thoughts about your learning experience in this course. You will upload the assignment to the Blackboard Reflection Dropbox by Friday Midnight of the week it is assigned (see **SEMESTER SCHEDULE** below).

Grade Distribution Points:

Total	1000
MathZone	150
Class Participation	100
ALEKS	150
5 In-class Tests	500
Final Exam	100
1 Reflection (10 extra credit)	

Letter Grade Assignment:

900-1000	A
800-899	B
700-799	C
600-699	D
0-599	F

At the instructor's discretion, extra assignments or quizzes beyond those stated may be used to encourage successful learning experiences.

Intermediate Algebra SEMESTER SCHEDULE F05

Wk #	Week of:	Chapter Sections	ALEKS (minimum 2 hrs per wk)
1	Aug 29-Sept 2	Orientation, 1.1-1.4 2.1, 2.2	
2	Sept 5-9	2.3, 2.4 (<i>Monday Holiday</i>) 2.5, 2.6	ALEKS 1
3	Sept 12-16	Review Ch 1 & 2 Test	ALEKS 2
4	Sept 19-23	3.1, 3.2 3.3, 3.4	ALEKS 3
5	Sept 26-30	3.5, 4.1, 4.2 4.3, 4.6	ALEKS 4
6	Oct 3-7	Review Ch 3 & 4 Test	ALEKS 5
7	Oct 10-14	5.1, 5.2, 5.3 5.4, 5.5, 5.6	ALEKS 6
8	Oct 17-21	5.7, 6.1, 6.2 6.3, 6.4	ALEKS 7
9	Oct 24-28	6.5, 6.6, 6.7 <i>Review</i>	ALEKS 8 Reflection due
10	Oct 31-*Nov 4	Ch 5 & 6 Test 7.1, 7.2, 7.3	ALEKS 9
11	Nov 7-11	7.4, 7.5 8.1, 8.2, 8.3	ALEKS 10
12	Nov 14-18	8.4, 8.5 Review	ALEKS 11
13	Nov 21-25	Ch 7 & 8 Test 9.1, 9.2 (<i>Thanksgiving Holiday</i>)	ALEKS 12
14	Nov 28-Dec 2	10.1, 10.2, 10.3, 10.4, 10.5	ALEKS Assessment
15	Dec 5-Dec 9	Review Ch 9 & 10 Test	
16	Tues, Dec 13 10:30-12:30	FINAL EXAM	
*Nov 4-Last day to withdraw without grade consideration			

Intermediate Algebra Homework Assignments F05

Chapter 1 – The Real Numbers

1.1-1.4 Work Every Other Odd (EOO) thru Skill Checker
Practice Test p.66 #1-25 all

Chapter 2 – Linear Equations and Inequalities

2.1-2.6 EOO thru Skill Checker
Practice Test p. 155 # 1-25 all

Chapter 3 – Graphs and Functions

3.1-3.5 EOO thru Skill Checker
Practice Test p. 239 # 1-25 all

Chapter 4 – Solving Systems of Linear Equations and Inequalities

4.1 EOO thru Skill Checker
4.2 #1-11 Odds and #27, 29
4.3 #1-33 EOO
4.6 #1-11 Odds
Practice Test p. 335 #1-16 all; 24, 25

Chapter 5 – Polynomials

5.1-5.7 EOO thru Skill Checker
Practice Test p.416 #1-25 all

Chapter 6 – Rational Expressions

6.1-6.3 EOO thru skill checker
6.4 #1-19 Odds
6.5-6.7 EOO thru Skill Checker
Practice Test p.381 #1-23 all

Chapter 7 – Rational Exponents and Radicals

7.1-7.3 EOO thru Skill Checker
7.4 #1-23 Odds
7.5 EOO thru Skill Checker
Practice Test p.575 #1-30 all

Chapter 8 – Quadratic Equations and Inequalities

8.1-8.2 EOO thru Skill Checker
8.3 #1-9 Odds; #21-39 Odds
8.4 #1-37 EOO
8.5 #1-31 EOO
Practice Test p.639 #1-13a, 14, 16, 18-25 all

Chapter 9 – Quadratic Functions and the Conic Sections

9.1 #1-39 EOO
9.2 #1-41 EOO
Practice Test p.724 #1-12 all

Chapter 10 – Functions-Inverse, Exponential, and Logarithmic

10.1 #1-27 Odds
10.2 #1-9 Odds, 15, 25
10.3 #1-23 Odds
10.4 #1-73 Odds
10.5 #1-39 EOO
Practice Test p. 823 #1-13, 16-17 all

Using Our Course Blackboard Site

1. How to log-in to the Blackboard course site:

URL <https://my.usf.edu>

***Enter USF net id** *fhopf*
password *****

Select "Courses" tab at the top

Select "Your Course"

This always takes you to the announcement page of the course.
All the other links to the course are in the left margin.

***If you are a new user, select the "sign-up" link and follow the prompts**

USF card # 640013...
date of birth
SS number

Aleks Log-in Prompts

Access the internet using the URL below:

<http://www.highed.aleks.com/>

Choose the option below. The next time you log in will be with the username and password given to you during registration

Register with
Aleks

. Under the column "For students", select register at the bottom.

FOR STUDENTS

Register

You will be given a contract. Select "I accept".

I ACCEPT

Aleks now looks for plug-ins and adds if necessary. Just be patient and wait.

Next enter the student access code (must be purchased)

Access Code:

Enter personal information

Enter your ALEKS class code obtained from the Course Code List on the syllabus

Class code: _____

Begin the Answer Editor Tutorial

Begin the Assessment

View the Evaluation - "My Pie"

Begin Learning by clicking on one piece of the pie and choosing an objective to practice.

[MathZone Log-in Instructions](#)

1. Go to <http://www.mathzone.com>
2. Select your textbook from the “please select your text” in the middle of the MathZone home page.
3. Click on Student Edition in the MathZone box.
4. Click on [login], and click “use your registration code.” This code can be found in your MathZone Student Access Kit that comes with a new text book. You must buy the code if you have a used book.
5. Enter your registration code in the box, and click continue.
6. Follow the directions to set up your account.
7. Write your UserID and password down for future reference.
8. Enter the specific course class code found on the [Course Codes](#) list on your syllabus. This will automatically register you in your instructor’s course.