

**SYLLABUS---MATH 1050**  
**COLLEGE ALGEBRA/PRECALCULUS**  
**CRN# 24350**

**SPRING SEMESTER, 2011**

**M,Tu,Th, Fr 8:00-8:50 a.m**

**North Instructional Bldg 205**

Instructor: Dr. Ahmad F. Samin

Credits: 4 Hours

Text: College Algebra

Tenth Edition

Lial, Hornsby, Schneider

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Hours: 9 -12 M

9 – 11:00 Tu

**1. OBJECTIVES:** All classes in mathematics at Dixie College support the general education goal of the college, and will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of this course, the students will demonstrate through testing the ability to:

1. Apply functional notation.
2. Determine symmetries that exist in the graph of an equation.
3. Graph polynomial functions and find their intercepts, maxima, and minima.
4. Analyze the key components of the graph of polynomial and rational functions.
5. Compute the composition and inverses of functions.
6. Graph exponential and logarithmic functions.
7. Apply properties of logarithms and exponents in simplifying expressions and solving equations.
8. Solve systems of linear equations using substitution, elimination, matrices, and Cramer's rule.
9. Solve non-linear systems of equations and inequalities.
10. Find terms and sums of terms of arithmetic and geometric sequences and series.
11. Compute the terms of a binomial expansion.

(Prerequisite: C or better in Math 1010 or ACT score of 23 or higher)

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the **DISABILITY RESOURCE CENTER** Coordinator ( Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

**2. CALCULATORS:** A graphing calculator is required. The TI-83 Plus/84 will be used in class and is highly recommended. Instruction can also be given on the TI-85, TI-86, TI-89 and TI-92.

**3. EXAMINATIONS:** Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of the instructor, and only if prior arrangements have been made. A final comprehensive exam will be given at the end of the term.

There will be **5** exams given in testing center that cover the material presented in class and on the homework sets. Every exam will be given at the testing center. Every exam will be paper based. All you need to take with you is your **STUDENT ID**. If you do not bring your student ID to the testing center, you will not be allowed to take the exam. Do not bring any other material (e.g., no books or papers). Testing Center - <http://new.dixie.edu/testing>

You will have a window of 3 days to go to the testing center to complete each exam (check the testing center website listed above for hours). There is no time limit in the exam.

Each exam will count 100 points. Exams will be comprised of short answer questions (e.g., nomenclature, synthesis, spectroscopy and mechanisms), problem solving, and an occasional short essay. Exams will be given on the following dates (see the attached

**4. ATTENDANCE:** Attendance is essential and roll will be taken. Tardiness will be frowned upon and may invoke the ire of the instructor.

**5. ASSIGNMENTS.** Homework assignments are to be done each day, but will only be collected on the day of the test. Put all homework together, fold in half lengthwise, and at the top include: (for example)

John Doe  
Math 1050, 1:00  
Ch. 1  
ALL - ?

**6. HELP:** I am available for help during posted office hours, and other times by appointment. There are also tutors available in the Browning Resource Center.

**7. SEMESTER SCHEDULE:** <http://new.dixie.edu/reg/?page=spring2011>

## 8. Course Points

|                          |                |
|--------------------------|----------------|
| In Class Participation   | 100 pts        |
| Homework                 | 100 pts        |
| Exams (5 x 100 pts each) | 500 pts        |
| <u>Final Exam</u>        | <u>200 pts</u> |
|                          | 900 pts Total  |

Grades will be assigned as follows:

|           |           |           |          |           |          |           |          |
|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|
| <b>A</b>  | 100 – 94% | <b>B</b>  | 86 – 83% | <b>C</b>  | 74 – 70% | <b>D</b>  | 59 – 55% |
| <b>A-</b> | 93 – 90%  | <b>B-</b> | 82 – 80% | <b>C-</b> | 69 – 65% | <b>D-</b> | 54 – 50% |
| <b>B+</b> | 89 – 87%  | <b>C+</b> | 79 – 75% | <b>D+</b> | 64 – 60% | <b>F</b>  | 49 – 0%  |

## 24350 ASSIGNMENT SCHEDULE (M-1050,S11.57 M,Tu, Th,Fr) 24350

|            |              |           |   |            |           |  |
|------------|--------------|-----------|---|------------|-----------|--|
| JAN        | 10           | R.4       | 1-73 EOO, 79-103 EOO  | Th         | 24        | REVIEW   |
|            | Tu           | 11        | R.4 CONT.   | <b>Fri</b> | <b>25</b> | <b>TEST CH. 4</b>                                |
|            | Th           | 13        | R.5 1,5,17,21,31,39,51,55,57,59                             | M          | 28        | 5.1 9-53 EOO,69,73,77,87                         |
|            | Fri          | 14        | R.6 1-69 EOO  | Tu         | 29        | 5.3 1,5,9,13,17,45,61,65,75                      |
|            | M            | 17        | NO SCHOOL   | Th         | 31        | 5.5 1-37 EOO,47,51,55                            |
|            | Tu           | 18        | 1.1 1-65 EOO, 3,7   | Fri        | 1April    | 5.6 1,5,29,33,71                                 |
|            | Th           | 20        | 1.2 1-11 EOO, 15-39 EOO,17                                  | M          | 4         | 6.1 1-41 EOO,31,39,51,53,<br>X 13,17             |
|            | Fri          | 21        | 1.3 1-77 EOO, 3,7,83,87                                     | Tu         | 5         | 6.2 1,5,15,17,25,43,48                           |
|            | M            | 24        | 1.4 1-77 EOO, 3,7,31  | Th         | 7         | 6.2 CONT.<br>6.3 TBA                             |
|            | Tu           | 25        | 1.5 1-45 EOO, 3,57  | Fri        | 7         | REVIEW   |
|            | Th           | 27        | 1.6 1-77 EOO,27,93,97                                       | <b>M</b>   | <b>11</b> | <b>TEST CHS 5-6</b>                              |
|            | Fri          | 28        | 1.7 1-53 EOO, 55-59 ALL,<br>61-77 EOO, 95                   | Tu         | 12        | 7.1 7-43 EOO, 53-65 EOO,<br>25,77                |
|            | M            | 31        | 1.8 1-8 ALL, 9-65 EOO,<br>81,85,89                          | Th         | 14        | 7.2 1-61 EOO,23,69,<br>72,73, X 29               |
| FEB        | 1            |           | REVIEW  | Fri        | 15        | 7.3 5-41 EOO,57,61,64,65                         |
|            | <b>Th</b>    | <b>3</b>  | <b>TEST CHAPTER 1</b>                                       | M          | 18        | 7.3 CONT.  |
|            | Fri          | 4         | 2.1 13-57 EOO, X41  | Tu         | 19        | 7.4 1-45 EOO,42,47,49                            |
|            | M            | 7         | NO CLASS  | Th         | 21        | 7.4 CONT.  |
|            | Tu           | 8         | 2.2 3-27 EOO, 37-49 EOO, 42                                 | Fri        | 22        | 7.6 1-49 EOO,35,39,55,X55d                       |
|            | Th           | 10        | 2.3 1-13 EOO, 17-22 ALL,<br>23-83 EOO                       | M          | 25        | REVIEW   |
|            | Fri          | 11        | 2.4 1-6 ALL, 9-21 EOO,<br>25-28 ALL, 33,39,55,<br>59-65 ALL | <b>Tu</b>  | <b>26</b> | <b>TEST CH 7</b>                                 |
|            | M            | 14        | 2.5 1-4 ALL, 5-57 EOO, 59                                   | Th         | 28        | FINAL REVIEW                                     |
|            | Tu           | 15        | 2.6 1-10 ALL, 11-47 EOO,<br>45, 49,50, X 31,43              | <b>M</b>   |           | <b>May Second FINAL EXAM</b><br><b>7:30-9:30</b> |
|            | Th           | 17        | 2.7 1-69 EOO, 3,15,31,67,<br>68,70,71,72                    |            |           |  |
|            | Fri          | 18        | 2.8 1-85 EOO  |            |           |  |
|            | M            | 21        | NO SCHOOL   |            |           |  |
|            | Tu           | 22        | REVIEW  |            |           |  |
|            | <b>Th</b>    | <b>24</b> | <b>TEST CHAPTER 2</b>                                       |            |           |  |
|            | Fri          | 25        | 3.1 1,3,5-8 ALL,12,<br>13-25 EOO, 27-30 ALL,<br>47,49,51,55 |            |           |  |
|            | M            | 28        | 3.2 1-33 EOO,15,41,43,45                                    |            |           |  |
| MAR        | 1            | 3.3       | 5,7,9,17,19,21,27,29,41                                     |            |           |  |
|            | Th           | 3         | 3.6 1,3, 7-10 ALL,<br>11-39 EOO, 25                         |            |           |  |
|            | Fri          | 4         | 4.1 1-17 EOO, 19-26 ALL,<br>35-79 EOO, 77                   |            |           |  |
|            | M            | 7         | 4.2 1-25 EOO, 49-77 EOO,<br>71,75,83                        |            |           |  |
|            | Tu           | 8         | 4.3 1-29 EOO,59-87 EOO,91                                   |            |           |  |
|            | Th           | 10        | 4.4 1-81 EOO, 3,7,47,X57                                    |            |           |  |
|            | Fri          | 11        | 4.5 1-77 EOO,12,23,39,<br>60,71,75                          |            |           |  |
| <b>M-F</b> | <b>14-18</b> |           | <b>NO SCHOOL</b>  |            |           |  |
|            | M            | 21        | 4.5 CONT.   |            |           |  |
|            | Tu           | 22        | 4.6 1-4 ALL, 5-41 EOO,<br>20, X 17                          |            |           |  |

### **Dropping This Course:**

See the attached Academic Calendar for important drop/withdrawal dates at:

<http://new.dixie.edu/reg/?page=calendar&sid=201120>

### **Attendance:**

You will get the most out of this course by attending class. A good record of attendance can only help improve your grade.

### **Tutors:**

There are several resources available to you in the event that you need extra help. The primary source of help comes from your peers and from your instructor. Free tutoring is also available at the Tutoring Center in the Browning Resource Center. You need to call them or stop by to find the times Chemistry tutors are available.

### **e-mail:**

You will be held responsible for information sent to your dmail email, so please check it often.

We wanted to notify you that we have transitioned your email account on rebelmail.dixie.edu to dmail.dixie.edu. This new system, powered by Google, will provide Gmail to our school, as well as a suite of other Google products that will enable our organization to better communicate, share, and collaborate.

What do I need to do?

Nothing. Your old email address will continue to work, but all messages will be delivered to your NEW dmail account at <http://dmail.dixie.edu>. You will still have access to your old messages and address book on the rebelmail server at <http://rebelmail.dixie.edu>.

What will I get?

- Gigabytes of email storage. No more worries about having to delete mail.
- Instant messaging from right within your mailbox & free PC-to-PC voice calls.
- Google Calendar to schedule meetings, create events, and share calendars with others.
- Google Docs to create and share documents, spreadsheets and presentations online.
- Your own personalized Start Page, where you can access all these services.
- Access to your information from anywhere with an internet connection. You can also access your email with a mobile device.

We hope you enjoy your new Google Apps email account!

Outside of class, e-mail is probably the best way to get in touch with me. I will try to check my e-mail daily ([asamin@dixie.edu](mailto:asamin@dixie.edu)), but don't assume I have received your message unless you receive a written reply.

### **Disability Accommodations**

If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability.

You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973. Our office is located in the Student Services Center, Room #201 of the Edith Whitehead Building.

### **Cheating Policy Statement:**

#### 3-34 ACADEMIC DISCIPLINE

- 34.1 Cheating: Academic dishonesty in any form will not be tolerated at Dixie State College, including but not limited to plagiarism on written assignments, submitting other person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State College may discipline students proven guilty of academic dishonesty by:
- 34.1.1 Giving a failing grade on the specific assignment where dishonesty occurred,
  - 34.1.2 Failing the student in the entire course,
  - 34.1.3 Immediately dismissing and removing the student from the course, and/or
  - 34.1.4 Referring the student to Student Affairs, a committee which may reprimand, place on probation, suspend, and/or expel the student.
- 34.2 Disruptive Behavior: Teachers at Dixie State College have the right to manage the classroom environment to ensure a good learning climate. Toward this end, teachers (or college security) may dismiss and remove disruptive students from individual class activities. If a student's behavior continues to disrupt class activities, the teacher may dismiss and cause the removal of disruptive students from their course.
- 34.3 Student Appeals: Students who believe themselves wrongfully disciplined may appeal those disciplinary actions through the standard grievance procedure. (Policy 5-35)

### **OTHER IMPORTANT DATES/DEADLINES**

Note: I would check out the link posted below and make sure to highlight/mark the important dates listed for your records (last day to add/drop). This syllabus will be posted under 'syllabus' under this blackboard section for your convenience.

<http://new.dixie.edu/reg/?page=calendar&sid=201120>

### **DISCLAIMER**

Information contained in this syllabus, other than the grading scale and exam/quiz policy may be subject to change with advanced notice, as deemed appropriate to the instructor.

### **Other:**

Set your cellphones to vibrate mode (or turn them off!) for all of your classes. Any behavior that disturbs the entire class (including walking in late or talking) will not be tolerated. Attendance is necessary and so is the reading. This course is going to be very fast-paced, so be prepared to work hard. Don't forget: all chemistry labs meet the first week; so, I'll see you all on Thursday!

