MAC 1140 PRECALCULUS ALGEBRA
SPRING 2007

<u>COURSE SYLLABUS</u>

INSTRUCTOR: Professor Sonya Lenhof

E-MAIL: slenhof@atlas.valencia.cc.fl.us (best way to contact me) I will check my e-mail at least once each weekday between 7:00 pm and 8:00 pm. Please write the course and time your class meets in the subject line to expedite your response. This also avoids the possibility of your email being filtered.

OFFICE HOURS: I do not have an office or office hours. If you are in need of extra help you are more than welcome to contact me and schedule a time and location to meet.

WEBSITE: http://faculty.valenciacc.edu/slenhof

COURSE DESCRIPTION:

Prerequisite: Minimum grade of C in MAC 1105 or an appropriate score on an approved assessment. MAC 1140 is the preparation course for the Calculus sequence. Topics include symbolic, graphical, and numerical analysis of polynomial, exponential, logarithmic, power and rational functions; matrices, sequences and conic sections. Applications emphasizing connection with other disciplines and with the real world will be included. Technology tools will be utilized in addition to analytical methods.

REQUIRED MATERIALS:

Text: *Precalculus with Modeling and Visualization,* 3rd edition, by Rockswold.

Calculator: Graphing Calculator (**TI-83, TI-83+, TI-83 Silver recommended, or TI-84**). **Students are NOT permitted to use a calculator that performs symbolic manipulations (such as the TI-89 or TI-92) in this course.** The TI-83 will be the model demonstrated in this class. If a student chooses to use a calculator other than the TI-83, he will be responsible for learning how to use his calculator. The student is not permitted to store information or unapproved programs in his calculator. The instructor reserves the right to inspect and/or reset the memory of each student's calculator. Any student found with inappropriate information stored in the calculator will be dealt with in keeping with the instructor's policy on academic honesty (see below).

Optional: Student solutions manual is available but is optional.

SUPPORT MATERIALS:

There is tutoring available in Building 4, first floor (IMC). The Math Support Center (Building 4-108) is a great help! Videotapes for each chapter are available for home use to accompany this text, check the tapes out at the Materials Desk (IMC).

ATTENDANCE:

Attendance is required at your assigned class time. You are expected to attend every class, be punctual, and complete all assignments. **<u>You are responsible for all work presented when you are absent.</u>** I do not withdraw students due to non-attendance; it is your responsibility to handle such matters. No absence will be excused unless legal or medical documentation is provided. Regular attendance and participation are significant factors to promote success in the course.

CELL PHONES, BEEPERS, WATCH ALARMS, PERSONAL MUSIC DEVICES:

Please turn off all these devices before you come to class. They are a huge distraction and will not be allowed during class time. If a phone rings and is answered, that student will be asked to leave class and will be considered absent for the day. If there is an emergency situation warranting the use of a cell phone or pager during class time, the student must notify the professor in writing prior to the beginning of class. During a testing situation, if a cell phone or pager vibrates or is audible, the student's quiz, test, or examination will be collected and the student will be asked to leave without an option for completion.

HOMEWORK/QUIZZES:

When homework is assigned it is to be completed by the next class meeting so students may ask questions. Homework is not graded, however quizzes will be given on the homework – the quizzes will be approximately 15 minutes in length and may or may not be announced. The **ONLY** aid permitted during these quizzes is your **OWN** notebook. You will **NOT** be able to make up a quiz under any circumstance!! You are either present at the time a quiz is given and receive a grade, or, you are not present and will receive a **"0"** (zero). Your lowest quiz grade will be dropped. Completion of homework on a regular basis is crucial to your success in this course. Keep your worked problems in a notebook in an organized fashion to optimize the help the notebook can provide during a quiz. Show all your work, that is, include worked-out solutions for each problem, not just the final answer! When you have your work written down you can see where you have made a mistake as I work the problem on the board. It is your responsibility to bring your notebook to class each day. Using the text, another person's notebook, or other unauthorized sources during a homework quiz is considered cheating. Check all the answers to your homework problems and rework those that are incorrect. I encourage you to work with other classmates.

EXAMS:

Tests: You will have 4 tests during the semester. Each test will emphasize new material, but may also include questions on any topics discussed earlier. Tests will be given during class time. Tests will be divided into two days with two portions; one without the use of calculators and the other with the use of calculators. Each test will be worth 100 points. **There will be no make up tests.** If you know ahead of time that you have to miss a test, arrangements may be made to take the test early.

Final Exam: There will be a comprehensive Final Exam in this course. ***If one scheduled test is missed, your final exam grade will be used in place of the missed test score; this can only be used to replace 1 test score***. ***If you have not missed any scheduled tests and have performed poorly on 1 test, your final exam grade will be used to replace this low test score if it is higher***. The test will be given in our classroom. The final exam will be worth 100 points and will be on the appropriate day listed on the schedule. **Failure to take the final exam automatically results in a WF, which is calculated as an "F" grade for your GPA.**

ACADEMIC HONESTY:

All forms of academic dishonesty are prohibited at Valencia. Academic dishonesty includes, but is not limited to, plagiarism, cheating, furnishing false information, forgery, alteration or misuse of documents, misconduct during a testing situation, and misuse of identification with intent to defraud or deceive. **Sanctions available to the professor should a violation occur are described in the Valencia Student Handbook or online at http://valencia.cc.fl.us/policies/PDF/10-16.pdf.**

EXPECTED STUDENT CONDUCT IN THE VALENCIA STUDENT HANDBOOK:

Valencia Community College is dedicated not only to the advancement of knowledge and learning but is concerned with the development of responsible personal and social conduct. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty member to leave the class. Violation of any classroom or Valencia's rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

COMPETENCIES OF A VALENCIA GRADUATE:

1. Think clearly, critically and creatively by analyzing, synthesizing, integrating and evaluating knowledge.
2. Communicate by reading, listening, writing, and speaking effectively.
3. Make reasoned value judgments and responsible commitments.
4. Act purposefully, reflectively, and responsibly by implementing effective problem solving and decision making.

CLAST COMPETENCIES:

1. Mathematics Skills (arithmetic and algebra skills)
2. Reading Skills (literal and critical comprehension skills)
3. English Language Skills (word choice and grammar, spelling, capitalization, & punctuation skills)

STUDENTS WITH DISABILITIES: Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferable during the first week of class. The Office for Students with Disabilities (East, Bldg 5-216) determines accommodations based on appropriate documentation of disabilities.

WITHDRAWAL: Don't just stop coming to class! If you decide to withdraw, you must follow the proper procedure (see "Atlas" for details). Students should familiarize themselves with Valencia Community College's withdrawal policy. The withdrawal deadline for the Spring Term 2007 is **March 23, 2007.** After this date, any student withdrawing from this course will receive either a WP or WF, based upon the student's average at the last day of attendance.

COURSE GRADE CALCULATION:

Homework/Quizzes (lowest score will be dropped)	100 Points
Tests (4 @ 100 points each)	400 Points
<u>Final Examination</u>	<u>100 Points</u>
Total Points Possible	**600 Points**

The course grade in MAC 1140 will be determined by taking the total points earned divided by the total points possible to calculate a percent average. The following scale will determine your letter grade:

A: 90 – 100% (>540 Total Points)
B: 80 – 89% (480-539 Total Points)
C: 70 – 79% (420-479 Total Points, Minimum Grade to Pass this Course)
D: 60 – 69% (360-419 Total Points, This Grade will Require You to Repeat this Course)
F: below 60% (<360 Total Points, This Grade will Require You to Repeat this Course)

DISCLAIMER:
Changes in the syllabus, course calendar, evaluation procedure, homework assignments, and/or any other document provided by the professor may be made at discretion of Ms. Lenhof. In case you are absent, **it is your responsibility** to find out what, if any, announcements or changes are made.

TENTATIVE COURSE CALENDAR:

***   All Dates and Assignments are tentative. Changes in the syllabus and/or course outline, schedule, and/or homework assignments may be made at any time by announcement of the professor.

Drop/Full Refund Deadline: **January 16th**
Withdrawal Deadline for "W" status: **March 23rd**

DATE	SECTIONS
Jan 8	Introduction, Syllabus Quiz
Jan 10	1.3 pg. 42 # 1, 11, 21-37 odd, 43, 47, 53-57 odd, 77-81 odd, 87, 91 1.4 pg. 58 # 1-21 *eoo, 25-33 odd, 37-53 *eoo, 63-77 odd, 81, 83, 85, 89-101 *eoo
Jan 12	2.1 pg. 82 # 1, 5-53 *eoo 2.2 pg. 99 # 1-49 *eoo, 59-71 *eoo, 81, 87
Jan 15	***Martin Luther King Jr Holiday – Class Does Not Meet***
Jan 17	2.3 pg. 118 # 3, 17-27 odd, 47, 49, 53, 57, 63, 79, 83, 101-107 odd 2.5 pg. 152 # 3, 7-15 odd, 29, 43-53 odd, 59, 73-79 odd, 99
Jan 19	2.4 pg. 134 # 1-69 *eoo, 87, 91, 93, 97
Jan 22	**Review for Test 1**
Jan 24	**Test 1 – Chapters 1.3, 1.4, & 2, Non-Calculator Portion**
Jan 26	**Test 1 – Chapters 1.3, 1.4, & 2, Calculator Portion**
Jan 29	3.1 pg. 184 # 9, 11, 19, 21, 25-81 *eoo, 93 3.2 pg. 201 # 1, 9, 13, 15, 17, 25, 27, 29, 61, 63, 65, 69, 73, 85, 89, 91, 95, 97, 105, 111, 113
Jan 31	3.3 pg. 213 # 1-49 *eoo, 61, 63
Feb 2	3.4 pg. 228 # 1-15 odd, 19-31 odd, 39, 41-73 *eoo, 81
Feb 5	4.1 pg. 251 # 1-45 *eoo, 53, 55, 65, 69-89 odd, 97, 103, 107, 111 4.2 pg. 268 # 5-37 *eoo, 63, 65, 67, 73, 77, 83
Feb 7	4.3 pg. 288 # 3-35 *eoo, 47-119 *eoo, 137
Feb 9	4.4 pg. 302 # 1-33 *eoo, 45-109 *eoo
Feb 12	4.5 pg. 319 # 1, 3, 7, 9, 15-43 *eoo, 47, 55, 67, 75, 79-99 *eoo, 109, 115
Feb 14	4.6 pg. 332 # 1-45 *eoo, 47, 51
Feb 16	4.7 pg. 343 # 1-31 odd, 39, 43, 45-77 *eoo
Feb 19	**Review for Test 2**
Feb 21	**Test 2 - Chapters 3 & 4, Non-Calculator Portion**
Feb 23	**Test 2 - Chapters 3 & 4, Calculator Portion**
Feb 26	5.1 pg. 375 # 5, 7, 9, 13, 19, 21, 25, 35, 39, 49, 57, 59, 61, 67, 71, 73, 79, 85-95 odd, 99, 101, 111
Feb 28	5.2 pg. 393 # 13-23 odd, 27, 31, 41-81 *eoo, 103, 105, 107, 109, 133
Mar 2	5.3 pg. 412 # 1-17 odd, 31-61 odd, 65, 69-81 *eoo, 91
Mar 5	5.4 pg. 430 # 3, 5, 7, 15, 17-85 *eoo, 91, 93, 99-105 odd, 121, 123, 125
Mar 7	5.5 pg. 442 # 7-51 *eoo, 65-73 odd, 85
Mar 9	5.6 pg. 453 # 5-57 *eoo, 67, 77, 89
Mar 12-18	***Spring Break – Class Does Not Meet***
Mar 19	**Review for Test 3**
Mar 21	**Test 3 – Chapter 5, Non-Calculator Portion**
Mar 23	**Test 3 – Chapter 5, Calculator Portion, *Withdrawal Deadline***
Mar 26	9.1 pg. 750 # 19, 21, 23, 27, 29, 31, 37, 39, 41, 43, 53, 59, 61, 65, 67, 75, 91, 95, 97
Mar 28	9.2 pg. 767 # 1, 3, 5, 11, 15, 19, 21, 23, 27, 31, 33, 35, 41-59 odd, 67, 69, 79
Apr 2	9.3 pg. 778 # 5, 9, 13, 15, 17, 19, 21, 25, 31, 33, 37
Apr 4	9.4 pg. 792 # 1-13 odd, 17, 19, 21, 27, 31, 33, 35, 39, 43, 47, 51, 53, 55, 67, 75
Apr 6	9.7 pg. 832 # 1, 3, 5, 7, 21, 23, 29, 31, 33, 35
Apr 9	10.1 pg. 852 # 1-73 *eoo
Apr 11	10.2 pg. 866 # 1-89 *eoo
Apr 13	**Review for Test 4**
Apr 16	**Test 4 - Chapters 9, 10.1, & 10.2, Non-Calculator Portion**
Apr 18	**Test 4 - Chapters 9, 10.1, & 10.2, Calculator Portion**
Apr 20	Grade Status, Final Exam Review
Apr 25, Wed	**FINAL EXAM – Time: 7:00 – 9:30 (Does not start at 9:00)**

*eoo is every other odd (for instance start with 1, skip 3, work 5, skip 7, work 9, etc)