MAC 1147 – PRE-CALCULUS ALGEBRA/TRIGONOMETRY  
SPRING 2012  
MONDAY/WEDNESDAY 8:00-8:50 AM  
TUESDAY/THURSDAY 8:00-9:15 AM  
NM 162

Instructor  Dr. Jack. Hughes  
Office  NM 127  
E-mail  Hughes.John@spcollege.edu  
Phone  791-2438

Academic Department  
Dean:  Sharon Griggs  
Office location:  St. Pete./Gibbs, SA 215A  
Office number:  (727) 341-4305  
Academic Chair:  Jimmy Chang  
Office location:  Clearwater, NM 120  
Office number:  (727) 791-2542

Textbook  Pre-Calculus, 8th Edition, Larson/Falvo  
(ISBN-978-1-4390-4577-0)  
Technology  Graphing Calculator (TI-83 or TI-84 will be used in class)

COURSE PREREQUISITE:
Prerequisite: MAC 1105 or appropriate score on the mathematics placement test.

COURSE DESCRIPTION:
This is an accelerated course covering the topics of both MAC 1140 and MAC 1114 in a single session and is intended primarily for the student who plans to take MAC 2311-2313. Major topics in algebra include: polynomial, rational and other algebraic functions, their properties and graphs; polynomial and rational inequalities; exponential and logarithmic functions, their properties and graphs; piecewise-defined functions; conic sections, matrices and determinants; sequences and series; mathematical induction, binomial theorem and applications. The trigonometry has emphasis on circular functions. Major topics in trigonometry include: trigonometric functions, their properties and graphs; inverse trigonometric equations; solutions of triangles; vector algebra; parametric equations; polar coordinates; applications. (Credit is not given for both MAC 1147 and either MAC 1140 or MAC 1114.) 77 contact hours.

MAJOR LEARNING OUTCOME
1. The student will demonstrate knowledge of the fundamental concepts of algebra and trigonometry.
2. The student will demonstrate ability to apply the methods of this course in problem solving and graphing.
3. The student will demonstrate ability to analyze the concepts of this course including proofs and derivations.

The complete Approved Course Outline for this course is given at  
http://www.spcollege.edu/clw/math_science/courses/MAC1147.htm

ATTENDANCE POLICY: Students are required to attend class regularly and on time. Attendance will be recorded at the start of each period. Late arriving students are responsible for signing in at the end of the class to avoid being counted absent. Except in an emergency, a student who needs to leave early should notify the instructor at the beginning of the period. When absent, it is the student’s responsibility to learn what was missed (assignments, handouts, due dates, etc). Students missing class are strongly encouraged to contact the instructor promptly to avoid an unexcused absence. Documentation will be required in order to excuse an absence.

SPC Withdrawal Policy – Highlights of this policy:

- Instructors will no longer be able to withdraw students for any reason. It is the students' responsibility to withdraw themselves from their courses.
- The withdrawn student and the withdrawn student’s instructor will receive timely notification through SPC e-mail whenever a withdrawal occurs. This includes student self-withdrawals as well as any kind of administrative withdrawal.
- Any student identified by an instructor as not attending at least once during the first two weeks of class will be considered a “No Show” and will be automatically withdrawn with a grade of “W.”
• Students not actively participating in class as determined by the instructor after the 60 percent point of the term will automatically receive a grade of “WF.”

• If the withdrawal is completed by March 20, a grade of “W” will be recorded which does not impact the student’s GPA. If the withdrawal occurs after March 20, the student will receive a grade of “WF” (withdraw-failing). The “WF” is punitive; it has the same impact on the GPA as an “F”. Students in the third attempt of a course who withdraw will receive a “WF” regardless of the date of withdrawal.

• Students who withdraw from all classes may be required to repay some or all of the financial aid received for the term. Should you consider totally withdrawing from all classes before March 20, (for the Spring semester) it is important that you consult the Scholarship & Student Financial Assistance office on your home campus your options and the consequences of total withdrawal.

TESTING: Tests will be given at the conclusion of each unit. No drop tests will be allowed; each test must be completed on time. Make-up tests will be given in only extreme circumstances (i.e. family emergencies, injury, etc.). If an exam is missed without prior consultation (exceptions being the reasons listed above), the score for that exam is a “0.”

QUIZZES: Students may expect a quiz at any class meeting on the assigned exercises for that class meeting or quiz over previous material. All work must be shown for credit. The quiz grades with equal one test grade at the end of the semester.

ASSIGNMENTS: Assignments will be given every class session, but will not be collected. Students are responsible for performing all problems assigned thoroughly and preparing themselves for questions during the class sessions and for quizzes.

GRADING: Your final grade will be composed of unit tests, quizzes and the final exam. The grading scale is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100</td>
<td>A</td>
</tr>
<tr>
<td>80 – 89</td>
<td>B</td>
</tr>
<tr>
<td>70 – 79</td>
<td>C</td>
</tr>
<tr>
<td>60 – 69</td>
<td>D</td>
</tr>
<tr>
<td>below 60</td>
<td>F</td>
</tr>
</tbody>
</table>

Tests = 60%  
Quiz Grade = 10%  
Final Exam = 15%  
Homework Quiz = 15%

EXTRA HELP: I am available in my office during times posted on office door. For any extra help besides posted hours, please make arrangements to meet in my office. Tutoring is also available from the Learning Support Center. See posted hours.

SEXUAL OFFENDER STATEMENT: Federal and State law requires a person designated as a "sexual predator or offender" to register with the Florida Department of Law Enforcement (FDLE). The FDLE then is required to notify the local law enforcement agency where the registrant resides, attends or is employed by an institution of higher learning. Information regarding sexual predators or offenders attending or employed by an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular campus, by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), or by visiting the FDLE website at www.fdle.state.fl.us/sexual_predators. If there are questions or concerns regarding personal safety, please contact the Provost, Associate Provost, Campus Security Officer or Site Administrator on your campus.

EMERGENCY PREPAREDNESS In the event that a hurricane or other natural disaster causes significant damage to St. Petersburg College facilities, you may be provided the opportunity to complete your course work online. Following the event, please visit the college web site for an announcement of the College's plan to resume operations. This syllabus is currently available in ANGEL for your convenience. Log in to ANGEL to confirm that you have access, reporting any difficulty to the SPC Student Technical Call Center at 727-341-4357 or via email at Onlinehelp@spcollege.edu.

CAMPUS SAFETY AND SECURITY: For information on campus safety and security policies please contact 727-799-2560. For information on sexual offenders on your campus please contact campus security or the associate provost office or for general information go to the State of Florida website at http://www3.fdle.state.fl.us/sopu/index.asp.
ACADEMIC HONESTY: St. Petersburg College has an Academic Honesty policy. It is your responsibility to be familiar with the policies, rules, and the consequences of violations. Read about the policy at: http://www.spcollege.edu/webcentral/admit/honesty.htm. There is no tolerance for cheating and academic dishonesty. Discipline can range from a zero on that specific assignment to expulsion from the class with a grade of F. Note that copy/pasting published information, whether it's from your textbook or the Internet, without citing your source is plagiarism and violates this policy. Even if you change the words slightly, the ideas are someone else's, so you still have to cite your sources.

SPECIAL ACCOMMODATIONS: If you wish to request accommodations as a student with a documented disability, please make an appointment with the Learning Specialist on campus. If you have a documented hearing loss, please contact the Program for the Deaf/Hard of Hearing at 791-2628. If you need assistance during an emergency classroom evacuation, please contact your campus learning specialist immediately about arrangements for your safety. The Office of Services for Students with Disabilities can be reached at 727-341-4758.

INFORMATION TECHNOLOGY POLICY:
• Information technology use that supports and enables the effective and efficient completion of job description duties and assigned tasks is acceptable.
• Information technology use by faculty (and students under the direction of faculty) that contributes to scholarly research and academic work within the boundaries of the approved curriculum is acceptable.
• Occasional and infrequent personal use that does not interfere with job duties, supersede work responsibilities, or add additional costs to the College is acceptable. The cost to the employee per page for printing shall be the same as the cost per page for a photocopy as set forth in District Board of Trustees’ Rule 6Hx23-5.17.

Prohibited Use
• Use of College information technology to break any international, federal, state or local law (or to aid in any crime) is prohibited.
• Use of College information technology for creation, storage, display or transmission of profit-oriented, commercial, political, or business purpose is prohibited.
• Consistent with the College’s sexual harassment policy, creating, viewing, storing, transmitting or public displaying pornographic (as defined by the U. S. Supreme Court), obscene, defaming, slanderous, harassing, or offensive data (including sound, video, text, and graphics data) is prohibited.
• Circumventing established College software security procedures or obtaining information system access and passwords to which one is not entitled is prohibited.
• Unauthorized alteration or removal of College hardware security systems is prohibited.
• Unauthorized modifications to College hardware or software are prohibited.
• Unauthorized access, alteration, or destruction of another employee's data, programs, or electronic mail is prohibited.
• Connecting or installing personal or non-College owned information technology hardware or software to the College network without prior approval is prohibited.
• Installing non-College owned software without prior approval and documented proof of legal licensure is prohibited.

Inspection
• The Board reserves the right to review and inspect all data and materials on any computer furnished by the College to any student or employee.

Consequences of Unacceptable Use
• Unacceptable use may result in the revocation of access to College information technology and may result in disciplinary action.

College-wide student expectations are located in the Syllabus Addendum: http://www.spcollege.edu/webcentral/policies.htm

Dates to know: Monday, January 67
Mon-Fri, March 5-9
MLK Day - No class
Spring Break—No Classes

Drop/Add and Audit Deadline: Friday, January 13, 2012
Withdrawal Deadline: Tuesday, March 20, 2012
Financial Aid Deadlines: http://www.spcollege.edu/central/SSFA/HomePage/calendar.htm
### MAC 1140 Schedule
#### SPRING 2012

<table>
<thead>
<tr>
<th>Week of:</th>
<th>Sections</th>
<th>Week of:</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/9</td>
<td>A.5, 1.4, 1.5, 1.6, 2.1</td>
<td>3/12</td>
<td>Test 3, 5.4, 5.5, 6.1</td>
</tr>
<tr>
<td>1/16</td>
<td>2.2-2.5</td>
<td>3/19</td>
<td>Test 4 Review, 6.2-6.4</td>
</tr>
<tr>
<td>1/23</td>
<td>2.6, 2.7, 3.1, <strong>Test 1 Review</strong></td>
<td>3/26</td>
<td>Test 4, 6.5, 8.1, 8.4</td>
</tr>
<tr>
<td>1/30</td>
<td><strong>Test 1</strong>, 3.2-3.4</td>
<td>4/2</td>
<td><strong>Test 5 Review</strong>, 8.5, 9.1, 9.2</td>
</tr>
<tr>
<td>2/6</td>
<td>3.5, <strong>Test 2 Review</strong>, 4.1, 4.2</td>
<td>4/9</td>
<td><strong>Test 5</strong>, 9.2-9.5</td>
</tr>
<tr>
<td>2/13</td>
<td><strong>Test 2</strong>, 4.3-4.5</td>
<td>4/16</td>
<td><strong>Test 6 Review</strong>, 10.2, 1.1, 10.3</td>
</tr>
<tr>
<td>2/20</td>
<td>4.6-4.8</td>
<td>4/23</td>
<td><strong>Test 6</strong>, 10.4, 10.6, 10.7, 10.8</td>
</tr>
<tr>
<td>2/27</td>
<td><strong>Test 3 Review</strong>, 5.1-5.3</td>
<td>4/30</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**Note:** This schedule is tentative. Lesson and test dates are subject to change.

**Dates to know:**
- Monday, January 16
- MLK Day - No class
- Mon-Fri, March 5-9
- Spring Break – No Classes

Drop/Add and Audit Deadline: Friday, January 13, 2012
Withdrawal Deadline: Tuesday, March 20, 2012
Financial Aid Deadlines: [http://www.spcollege.edu/central/SSFA/HomePage/calendar.htm](http://www.spcollege.edu/central/SSFA/HomePage/calendar.htm)

**MAC 1147 ASSIGNMENTS**


Be sure to SHOW WORK on assignments. Answers only are NOT acceptable.

<table>
<thead>
<tr>
<th>Section</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td>123-126 all, 137-142 all</td>
</tr>
<tr>
<td>1.4</td>
<td>37-81 odd, 103-109 odd, 115-118</td>
</tr>
<tr>
<td>1.5</td>
<td>9-12, 13-55 odd, 67-73 odd, 83-99 odd, 121, 122</td>
</tr>
<tr>
<td>1.6</td>
<td>43-49 odd, 57-63 odd, 74, 75</td>
</tr>
<tr>
<td>1.7</td>
<td>19-24, 25-53 eoo, 67-72, 81-84</td>
</tr>
<tr>
<td>2.1</td>
<td>7-12, 13-69 eoo, 77-83 odd, 87-90</td>
</tr>
<tr>
<td>2.2</td>
<td>9-16, 17-91 eoo, 97, 105-107</td>
</tr>
<tr>
<td>2.3</td>
<td>11, 17, 25, 27-73 eoo, 87-89</td>
</tr>
</tbody>
</table>
2.4 5-87 eoo, 91,93-96
2.5 9-101 eoo,107-110,121,122
2.6 9,13,15,17-20,21-49 odd,55-68 odd,79,83,85-87 77-79 all, 85, 90
2.7 13--35 odd, 41-53 odd, 59-63 odd, 71,81,82

TEST I

3.1 7-12,13-16,23-57 odd,67,69,73,77,78
3.2 7-43 odd,45-50,51-65 odd,75,77,85-91 odd,93,95,99,100
3.3 7-85 eoo,87,101-106
3.4 5-23 odd,29-69 eoo,81-112 eoo,129,135,139-142
3.5 7-12,13,17,21,23,27,33,37,41,49,51,55,63,75,79-82

TEST II

4.1 11-95 eoo,97,100,101,103,111,121-123
4.2 5-59 odd, 61-64
4.3 5-65 odd,67,69,77-82
4.4 9-96 eoo,97,101,103,104
4.5 571 eoo,87,91,93,95-97
4.6 9-14,15-47 odd,57-63 odd,73-79,91,96,97
4.7 5-75 eoo, 77,81,83,87,91,97,105,112-114
4.8 5-41 odd,55,61,69,79

TEST III

5.1 11-79 eoo,123,127,128
5.2 9-49 eoo, 61,65,71,72
5.3 5-47 eoo,87,89,93,95,99,100
5.4 7-69 odd,89,91-94
5.5 11-75 eoo, 81-101 eoo,135,139,140

TEST IV

6.1 5-43 odd,45,49,53,57,59
6.2 5-19 odd, 27-39 odd,41,43,47,51,63,64
6.3 11-77 eoo,83,85,89,91,99,103-110
6.4 7-51 eoo, 53-61 odd,71,75,79,87,88
6.5 5-41 odd,47-57 odd,67-105 eoo,107,108

TEST V

8.1 51-89 eoo,117,118
8.4 5-23 eoo, 39-61 eoo,91,92
8.5 7-19 odd,71-73

9.1 9-35 odd,43-46,47-75 eoo,77-83 odd,85-95 eoo,103-11 eoo,121,127,128
9.2 5-73 eoo
9.3 5-56 eoo, 67-109 eoo
9.4 5,7,9,11,15,17,21,49-57 odd, 65-71 odd,81-85
9.5 19-65 eoo,93-95

TEST VI

1.2 69-81 odd
10.2 13-18,19-59 eoo,69,75,83,84
10.3 6-10,11-51 eoo,57,59,63,73,74
10.4 5-8,9-49 eoo,53,57-71 odd,73-76
10.6 7-27 odd, 33-39 (use number 29-32),63,69,70
10.7 5-117 eoo,119,120
10.8 7-63 eoo, 69,70
10.9 5-14,15,19,,23,25,39-54 odd,55,65,67-70

CUMULATIVE FINAL EXAM
Classroom Conduct for Classes of Dr. Jack Hughes

1. **Be in class each day.**
   
   If you must miss a class, you are responsible for the material covered and assignments made. Be prepared for the next class. If you miss more than three classes, it will affect your grade in this course. If you miss a class, contact Dr. Hughes as soon as you can—by email or phone to discuss work missed.

2. **Be to class on time.**
   
   When you come late to class it disrupts the class—be fair to you fellow students come to class on time. If you are tardy to class three times, it will count as an absence—toward the three that could cause your grade to drop in this class. The same applies to leaving the class before it has ended. Be considerate of everyone.

3. **A quiz will be given most days.**
   
   You can expect a quiz at any class, usually at the beginning of class. If you miss class or are tardy you will miss this quiz. Quizzes cannot be made up. Please be in class and on time, because missing quizzes will affect your grade.

4. **Do not miss a test.**
   
   If you miss a test, it cannot be made up. Tests will be given at the conclusion of each unit. No drop tests will be allowed; each test must be completed on time. Make-up tests will be given in only extreme circumstances (i.e. family emergencies, injury, etc.). **If an exam is missed without prior consultation (exceptions being the reasons listed above), the score for that exam is a “0.”**
   
   If you know you will miss a test, make arrangements with Dr. Hughes to take it at an alternate time—before your absence.

5. **Cell phones must be on vibrate or turned off.**
   
   There are times that someone must be able to contact you. But, cell phones ringing in class (especially during a test) are a disruption. Please have your phone on vibrate and go outside the class to answer it. Be considerate of your classmates.

6. **Come to class prepared; do your assignments.**
   
   Each time you are given an assignment, it is your responsibility to have it completed by the next class. This is the **key to success** in this class. You will be able to ask questions at the beginning of class about the previous assignment, please be prepared to do so. Asking questions will not only help you understand, but will also help the entire class.

7. **Withdrawal Policy of SPC.**
   
   Instructors cannot withdraw students from classes. It you wish to withdraw from this class you can withdraw either online through MySPC or with the help of an advisor in the registration office. If the withdrawal is completed before March 20, a grade of “W” will be recorded. If the withdrawal occurs after March 20, you will receive a “WF”. Please be aware of this method of withdrawal.
I have read, understand and agree to abide by the parameters set in the syllabus for this course.

I understand that I must have continuous access to and fluency with a computer and related software throughout this course.

I understand that it is my responsibility to complete all assignments in a timely manner and that my grade will suffer should my assignments not be completed by the deadlines. I will not expect time extensions for late assignments.

I promise that all work performed and submitted in this class will be my own. I understand that if any submitted assignment is determined not to be of my own work or if I am suspected of using prohibited resources while completing an assignment, then I will be subject to disciplinary measures as stated in the syllabus and college catalog, including failing the class.

I understand that rudeness has no place in this course or classroom. I will communicate with others in a respectful, appropriate and polite manner. I also realize that failure to do so can result in my being withdrawn from the course.

I understand that excessive, unexcused absences will result in a withdrawal from the course.

___________________________       ___________________
Signature                        Date

Email Address ____________________________

Phone number ____________________

Information about you (major, why you are taking this class, interests, hobbies, etc., things that will help me know you better)

(Bring this with you to the first class—I will count this as your first quiz for the class)