For information on Online Mathematics Classes
Click on the appropriate link below to find out about your class:

**Fall 2013**

Math 1101 Wolfe
Math 1101 Wallace
Math 1111
Math 1112
Math 1200 Wolfe
Math 1200 Brown
Math 1251
Math 2120

Computer Requirements

What an Online Class is NOT
P-Online Math 1101 Information
Prof. Wolfe's section

*Note: To register for this course, you must go through the normal registration process.*


Note: Our bookstore sells the cheaper loose-leaf version of the textbook with the code included, or you may choose just to buy the online access with eBook using a credit card or paypal.

This is a partially online course.

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions.

On campus Meetings:

1. There will be an optional orientation sessions for students. The date, time and place is listed below:

   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

   There are three locations for each of the following proctored exams:

   1). Main Macon Campus: Mathematics Auditorium
   2). WRC Campus: WRC2 112
   3). Cochran Campus: Dillard Hall 112
   Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
   Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
   Final Exam: Thursday December 12 at 3:30PM or 6:00PM

**Course Requirements:**

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online
lessons must be completed according to the course schedule in order to be prepared for the schedules exams. Note that the course is not self-paced. Each activity visible must be completed before the next activity or lesson becomes visible.

Students will complete 2 online accumulative exams and 3 paper and pencil accumulative exams, one of which is a comprehensive final exam. The on campus exams are scheduled on the Macon campus. Anyone who misses the scheduled exams will not be able to make them up. Since the exams are accumulative, each exam is designed to help you prepare for the next exam, and all are designed to prepare for the comprehensive proctored final exam.

**Computer or Internet Problems:**

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) or the Mathematics Academic Resource Center (MARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus or any other location where you will have access to the course. Computer problems or Internet problems do not constitute an excuse for missing an exam or getting behind.

**Required Equipment in addition to the Textbook:**

All students will need a TI-83 or TI-83/84 Plus calculator and learn to use it. Each Math 1101 online lesson has calculator tutorials.

**Getting help in the Course:**

We use the Discussion and course e-mail for asking and answering questions about the course content, however, online students still may use the oncampus ARC or their instructors office hours to get extra help.

**What Skills are Needed to be a Successful Student in Math 1101 Online?**

1. Competence in Algebra through the Algebra II (or Math III) level.

   NOTE: This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 0099 as a refresher first.

2. A successful track record in other classes. (A, B or C's)


4. Enjoys reading and is proficient in reading skills, including reading comprehension.
5. Ability to meet deadlines on your own.

If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Dr. Wolfe, mary.wolfe@mga.edu.
P-Online Math 1101 Information
Prof. Wallace's section

Note: To register for this course, you must go through the normal registration process.


Note: Our bookstore sells the cheaper loose-leaf version of the textbook with the code included, or you may choose just to buy the online access with eBook using a credit card or paypal.

This is a partially online course.

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions.

On campus Meetings:

1. There will be an optional orientation sessions for students. The date, time and place is listed below:

   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

   There are three locations for each of the following proctored exams:

   1). Main Macon Campus: Mathematics Auditorium
   2). WRC Campus: WRC2 112
   3). Cochran Campus: Dillard Hall 112

   Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
   Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
   Final Exam: Thursday December 12 at 3:30PM or 6:00PM

Course Requirements:
Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online lessons must be completed according to the course schedule in order to be prepared for the schedules exams. Note that the course is not self-paced. Each activity visible must be completed before the next activity or lesson becomes visible.

Students will complete 2 online accumulative exams and 3 paper and pencil accumulative exams, one of which is a comprehensive final exam. The on campus exams are scheduled on the Macon campus. Anyone who misses the scheduled exams will not be able to make them up. Since the exams are accumulative, each exam is designed to help you prepare for the next exam, and all are designed to prepare for the comprehensive proctored final exam.

**Computer or Internet Problems:**

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) or the Mathematics Academic Resource Center (MARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus or any other location where you will have access to the course. Computer problems or Internet problems do not constitute an excuse for missing an exam or getting behind.

**Required Equipment in addition to the Textbook:**

All students will need a TI-83 or TI-83/84 Plus calculator and learn to use it. Each Math 1101 online lesson has calculator tutorials.

**Getting help in the Course:**

We use the Discussion and course e-mail for asking and answering questions about the course content, however, online students still may use the oncampus ARC or their instructors office hours to get extra help.

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**What Skills are Needed to be a Successful Student in Math 1101 Online?**

1. Competence in Algebra through the Algebra II (or Math III) level.

**NOTE:** This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 0099 as a refresher first.

2. A successful track record in other classes. (A, B or C’s)

4. Enjoys reading and is proficient in reading skills, including reading comprehension.

5. Ability to meet deadlines on your own.

If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Dr. Wallace, steven.wallace@mga.edu.
P-Online Math 1111 Information

*Note: To register for this course, you must go through the normal registration process.*

**Required Textbook:** Access code for our College Algebra class on Thinkwell.com. Be sure that you buy the **THINKWELL College Algebra Access Code** (not CD's and not ALEKS code).

**This is a partially online course.**

In this partially online course, instruction will be delivered through [http://courses.thinkwell.com](http://courses.thinkwell.com). Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions. Note that only students registered at Middle Georgia State College in a Fully Online program and living more than 30 miles from the above three campuses may use another proctoring center.

**On campus Meetings:**

1. There will be an optional orientation sessions for students. The date, time and place is listed below:

   **Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.**

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

   There are three locations for each of the following proctored exams:

   1). Main Macon Campus: Mathematics Auditorium
   2). WRC Campus: WRC2 112
   3). Cochran Campus: Dillard Hall 112

   **Exam 1:** Tuesday September 17, 2013 at 3:30PM or 5:30PM
   **Exam 3:** Tuesday November 5, 2013 at 3:30PM or 5:30PM
   **Final Exam:** Thursday December 12 at 3:30PM or 6:00PM

**Course Requirements:**

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online lessons must be completed according to the course schedule in order to be prepared for
the schedules exams. Note that the course is not self-paced. Each activity visible must be completed before the next activity or lesson becomes visible.

Students will complete 2 online exams, 2 proctored on campus exams and one on campus proctored comprehensive final exam. The online exams will be scheduled for a short window of time. The proctored exams have two different times on one day. Anyone who misses the scheduled exams will not be able to make them up.

Computer or Internet Problems:

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus.

All students will need a TI-83 or TI-83/84 Plus calculator and learn to use it.

What Skills are Needed to be a Successful Student in Math 1111 Online?

1. Competence in Algebra through the Algebra II level or Math III level.

   NOTE: This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 0098 and/or Math 0105 or Math 1101 as a refresher first.

2. A successful track record in other classes. (A, B or C’s)


4. Enjoys reading and is not deficient in reading skills.

5. Ability to meet deadlines on your own.

If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Ms. Lanier, vlanier@mgc.edu.
Online Math 1112 Information

Note: To register for this course, you must go through the normal registration process.

Required Textbook: To be announced later.

This is a partially online course.

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions.

On campus Meetings:

1. There will be an optional orientation session for students. The date, time and place is listed below:

   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

   2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

      There are three locations for each of the following proctored exams:

      11). Main Macon Campus: Mathematics Auditorium
      2). WRC Campus: WRC2 112
      3). Cochran Campus: Dillard Hall 112
      Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
      Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
      Final Exam: Thursday December 12 at 3:30PM or 6:00PM

Course Requirements:

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online quizzes must be completed according to the course schedule. Note that the course is not self-paced. To be adequately prepared for the exams, you must adhere to the schedule of lessons as specified in the calendar.

Computer or Internet Problems:
If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus.

All students will need a TI-83/84 Plus calculator and learn to use it.

What Skills are Needed to be a Successful Student in Math 1113 Online?

1. Competence in Algebra through the College Algebra level.

   NOTE: This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 1111 as a refresher first.

2. A successful track record in other classes. (A, B or C's)


4. Enjoys reading and is not deficient in reading skills.

5. Ability to meet deadlines on your own.

If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Prof. Davis, steve.davis@mga.edu.
P-Online Math 1200 Information
Prof. Wolfe's Section

Note: To register for this course, you must go through the normal registration process.

**Required Textbook:** Custom McGraw-Hill Elementary Statistics with ConnectMath Plus access card and worksheets sold only in the Middle Georgia College Bookstore.

**Required Calculator:** TI 84 Plus

**This is a partially online course.**

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions.

**On campus Meetings:**

1. There will be an optional orientation sessions for students. The date, time and place is listed below:

   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

   There are three locations for each of the following proctored exams:

   1). Main Macon Campus: Mathematics Auditorium
   2). WRC Campus: WRC2 112
   3). Cochran Campus: Dillard Hall 112
   Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
   Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
   Final Exam: Thursday December 12 at 3:30PM or 6:00PM

**Course Requirements:**

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online lessons must be completed according to the course schedule in order to be prepared for
the schedules exams. Note that the course is not self-paced. Each activity visible must be completed before the next activity or lesson becomes visible.

Students will complete 2 online exams, 2 proctored exams and one proctored comprehensive final exam. The online each be scheduled for a short window of time, and the proctored exams to two times on one day. Anyone who misses the scheduled exams will not be able to make them up.

**Computer or Internet Problems:**

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus or any other location where you will have access to the course. Computer problems or Internet problems do not constitute an excuse for missing an exam or getting behind.

**Required Equipment in addition to the Textbook:**

All students will need a TI-83 or TI-83/84 Plus calculator and learn to use it. Each Math 1200 online lesson has calculator tutorials.

**Getting help in the Course:**

We use the Discussion and course e-mail for asking and answering questions about the course content, however, online students still may use the oncampus ARC or their instructors office hours to get extra help.

**What Skills are Needed to be a Successful Student in Math 1200 Online?**

1. Competence in Algebra through the College Algebra or Mathematical Modeling level.

   NOTE: This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 1101 as a refresher first.

2. A successful track record in other classes. (A, B or C’s)


4. Enjoys reading and is proficient in reading comprehension skills.

5. Ability to meet deadlines on your own.
If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Dr. Wolfe, mary.wolfe@mga.edu.
P-Online Math 1200 Information
Prof. Brown's Section

Note: To register for this course, you must go through the normal registration process.

Required Textbook: Custom McGraw-Hill Elementary Statistics with ConnectMath Plus access card and worksheets sold only in the Middle Georgia College Bookstore.

Required Calculator: TI 84 Plus

This is a partially online course.

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions.

On campus Meetings:

1. There will be an optional orientation session for students. The date, time and place is listed below:
   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

   There are three locations for each of the following proctored exams:

   1). Main Macon Campus: Mathematics Auditorium
   2). WRC Campus: WRC2 112
   3). Cochran Campus: Dillard Hall 112

   Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
   Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
   Final Exam: Thursday December 12 at 3:30PM or 6:00PM

Course Requirements:

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online lessons must be completed according to the course schedule in order to be prepared for
the schedules exams. Note that the course is not self-paced. Each activity visible must be completed before the next activity or lesson becomes visible.

Students will complete 2 online exams, 2 proctored exams and one proctored comprehensive final exam. The online each be scheduled for a short window of time, and the proctored exams to two times on one day. Anyone who misses the scheduled exams will not be able to make them up.

Computer or Internet Problems:

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus or any other location where you will have access to the course. Computer problems or Internet problems do not constitute an excuse for missing an exam or getting behind.

Required Equipment in addition to the Textbook:

All students will need a TI-83 or TI-83/84 Plus calculator and learn to use it. Each Math 1200 online lesson has calculator tutorials.

Getting help in the Course:

We use the Discussion and course e-mail for asking and answering questions about the course content, however, online students still may use the oncampus ARC or their instructors office hours to get extra help.

What Skills are Needed to be a Successful Student in Math 1200 Online?

1. Competence in Algebra through the College Algebra or Mathematical Modeling level.

   NOTE: This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 1101 as a refresher first.

2. A successful track record in other classes. (A, B or C’s)


4. Enjoys reading and is proficient in reading comprehension skills.

5. Ability to meet deadlines on your own.
If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Mr. Brown, don.brown@mga.edu.
Online Math 1251 Information

Note: To register for this course, you must go through the normal registration process.

Required Textbook: Calculus by Jon Rogawski 2nd Edition
This is a partially online course.

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions.

On campus Meetings:

1. There will be an optional orientation sessions for students. The date, time and place is listed below:

   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

There are three locations for each of the following proctored exams:

1). Main Macon Campus: Mathematics Auditorium
2). WRC Campus: WRC2 112
3). Cochran Campus: Dillard Hall 112
Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
Final Exam: Thursday December 12 at 3:30PM or 6:00PM

Course Requirements:

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online quizzes must be completed according to the course schedule. Note that the course is not self-paced. If you miss the scheduled time for a quiz, there is no makeup time.

Computer or Internet Problems:

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) on the main campus during its hours of
operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus.

**What Skills are Needed to be a Successful Student in Math 1251 Online?**

1. Competence in Algebra through the College Algebra level.

   **NOTE:** This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 1111 as a refresher first.

2. A successful track record in other classes. (A, B or C’s)


4. Enjoys reading and is not deficient in reading skills.

5. Ability to meet deadlines on your own.

If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Dr. Monk, **barry.monk@mga.edu**.
Online Math 2120 Information

Note: To register for this course, you must go through the normal registration process.


**Pre-requisite:** MATH 1111

**This is a partially online course.**

In this partially online course, instruction will be delivered through D2L. Students must come to the Macon Campus, WRC Campus or the Cochran to take 3 proctored exams. Photo ID is required at proctored exam sessions. Note that only students registered at Middle Georgia State College in a Fully Online program and living more than 30 miles from the above three campuses may use another proctoring center.

**On campus Meetings:**

1. There will be an optional orientation sessions for students. The date, time and place is listed below:

   Tuesday August 20, 2013 at 3:30PM or 5:30PM on the Macon Campus in the Mathematics Auditorium, or on the WRC campus in the Auditorium (WRC2 112), or the Cochran Campus Dillard Hall-112.

2. All students must attend two proctored paper and pencil exams and one proctored paper and pencil final exam. There are NO makeup exams nor exceptions for any student, but students may attend either session as listed below. Students are required to show photo ID in order to take each exam.

   There are three locations for each of the following proctored exams:

   1). Main Macon Campus: Mathematics Auditorium
   2). WRC Campus: WRC2 112
   3). Cochran Campus: Dillard Hall 112

   Exam 1: Tuesday September 17, 2013 at 3:30PM or 5:30PM
   Exam 3: Tuesday November 5, 2013 at 3:30PM or 5:30PM
   Final Exam: Thursday December 12 at 3:30PM or 6:00PM

**Course Requirements:**

Students should log onto the class at least every day Monday through Friday to work on the course and get assignments and announcements. In addition, lessons and online quizzes must be completed according to the course schedule. Note that the course is not self-paced. To be adequately prepared for the exams, you must adhere to the schedule of lessons as specified in the calendar.
Computer or Internet Problems:

If for any reason the student cannot connect at home, students must be willing to travel to the Academic Resource Center (ARC) on the main campus during its hours of operation. The ARC is located in the lower level of the Library Building. Alternatively, students may travel to the ARC on the WRC campus.

All students will need a TI-83 or TI-83/84 Plus calculator and learn to use it.

What Skills are Needed to be a Successful Student in Math 1220 Online?

1. Competence in Algebra through the College Algebra level.
   
   NOTE: This knowledge must be current. If it has been 5 or more years since taking Algebra, you may need to take Math 1111 as a refresher first.

2. A successful track record in other classes. (A, B or C's)


4. Enjoys reading and is not deficient in reading skills.

5. Ability to meet deadlines on your own.

If you have any other questions or concerns, you are strongly encouraged to contact the professor. That is Dr. Wolfe, mary.wolfe@mga.edu.
**Computer Requirements:**

A). An MS Windows Computer (Windows XP or higher).

B). Internet Explorer 8.0 or higher browser or FireFox.

C). Sun’s Java Plug-in.

D). Adobe Acrobat Reader

E). Cookies MUST be allowed.

F). All pop-up blockers MUST be disabled.

G). Students will need to be able to install software and plug-ins necessary for the particular course.

Students must be **comfortable** with the technology, including installing the necessary plug-ins and media player, if not already installed.

H). Students must be able to change Internet Explorer security settings to make all feature of Vista operate properly.
What an Online Class IS NOT:

1. Online courses are **NOT** self-paced. There is a strict schedule for the lessons, completing assignments, and taking online quizzes and examinations.

2. Online classes are **NOT** easier. All the same material is covered as in a regular class. The difference is the presentation is over the Internet. Students will do proportionately more reading and less listening in an online class, so reading comprehension skills are a must.

3. Your instructor is **NOT** a "teacher" but instead a "facilitator". He/she will answer your questions, but the initial presentation of course material is done on the computer rather than by a "lecture". Thus, students must read the lessons, view the videos, read and view the calculator tutorials and comprehend.