MATH 1620-A Calculus II Spring 2016 – CRN: 2778

Class Schedule: TTR 12:20pm-2:00pm (100 minutes, Period 4)
Class Room: 317 Goodwyn Hall

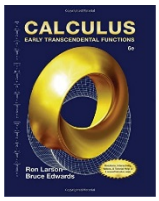
Professor: ~~Dr.~~ Jerome Goddard II
Office: 213 B Goodwyn Hall
Phone: 334-244-3023
E-mail: jgoddard@aum.edu
Website: http://www.jeromegoddard2.com

Office Hours: TTR 9:25am-10:40am & W 2:10pm – 4:50pm (others by appointment)

Important Dates:

January 18-19	MLK holiday & student holiday!
March 14-18	Spring Break!
March 23	Last day to drop/resign classes
May 3	Last day of classes
Thursday, May 5, 10:45am-1:15pm	Final Exam

Text: **Calculus: Early Transcendental Functions Larson and Edwards (6e)**, Thomson Brooks/Cole 2015



Catalog Description:
MATH 1620 *4 credit hours* *Calculus II*
A continuation of Calculus I. Applications of the definite integral; techniques of integration; indeterminate forms; improper integrals; polar coordinates; numerical integration; infinite series; Taylor's Theorem; power series.

Prerequisites: MATH 1610 (Calculus I) **OR** an equivalent course.

Course Objectives:
Selected topics from chapters 5-10. Upon successful completion of this course the student will demonstrate an understanding of and ability to apply each of the following topics (time permitting):

- Indefinite and definite integration and their application
- Special techniques of integration
- Numerical integration
- Hyperbolic Trigonometric functions
- Improper integrals and indeterminate forms
- Sequences and series
- Comparison, integral, and ratio tests (among others)
- Taylor and Maclaurin series
- Power series
- Conics, plane curves, parametric equations, & polar coordinates

Methods of Instruction: The format of class meetings will consist of interactive lectures, in-depth discussion, & group activities. Student participation is highly encouraged.

Calculator: According to AUM Department of Mathematics Calculator Policy, students are encouraged to possess a graphing calculator. A Texas Instrument's TI-84 (TI-83 or TI-82) is recommended. **Calculators are NOT allowed on assignments/exams** but may be used for homework or in-class discussion.

Electronic Devices: Cell phones, computers, tablets, and other electronic devices (except approved calculators) should be powered off, set to emit no audible sound (including vibration and messaging), and put away during class.

*****Use of cell phones for any purpose during class is in violation of class policy*****

Free Tutoring: Free one-on-one tutoring is available in the Learning Center (LC), located in 225 Library Tower (Phone: 334-244-3470). Students can call or stop in for an appointment. In addition, the LC hosts several calculator workshops. The Instructional Support Lab (ISL) located in 203 Goodwyn Hall (Phone: 334-244-3265) is another free tutorial center that is available to assist AUM students. Tutorial services at the ISL are available on a first come, first serve basis--no appointment necessary. Also, please feel free to come by my office during regular office hours for help.

Academic Integrity: Students are expected to maintain academic integrity in all work in this course. See the AUM *Undergraduate Catalog* for details. Procedures for violations are outlined in the AUM *Student Handbook*. Each faculty member is required to report student behavior that appears contrary to the standards of discipline and academic honesty as described in the *Student Handbook.*

Attendance: Class attendance is mandatory and will be taken at each class by your signing an attendance sheet. Failure to sign the attendance sheet will be counted as an absence. A student is considered to be absent if they come in after attendance has been taken or leave early. **Students are solely responsible for catching up on material that they miss due to any absence.** Exposure to Mathematics outside of the classroom is crucial to the learning process. Thus, you may earn up to 6 extra points for attending the AUM Mathematics Club (1 point per meeting attended).

Assignments: Problems from each textbook section will be assigned in class and should be completed before the next class period. However, textbook homework will not be collected nor graded. In addition, several short in-class quizzes will be given with or without advance notice. The average of the quiz grades will be counted as one test grade.

Grades:

300pts Three in-class tests (100pts each)
100pts Quiz average
200pts Comprehensive final exam
6 additional points possible from math club attendance

The total points from above will be **divided by 6** to calculate the course grade.

Final grades will be assigned as follows:

90 – 100	**A**
80 – 89	**B**
70 – 79	**C**
60 – 69	**D**
0 – 59	**F**

*All borderline cases will be determined according to student participation, class attendance, and overall student performance.

Midterm Grade: Your midterm grade will consist of the average of Test 1 and the quiz grade average to date. *This grade is only meant to be an estimate of current progress in the class and can be quite different than your final class grade.*

Makeup Work: Makeup tests are allowed only for "excused" absences as outlined in the AUM Attendance Policy and only with appropriate verification. Arrangements must be initiated by the student (preferably with advance notice) and must be completed within one week of the original exam. There are no makeups allowed for quizzes. However, the lowest quiz grade will be dropped.

Accommodation Notice: It is the policy of AUM to provide appropriate modifications, accommodations or auxiliary aids to any student with a documented disability as defined by Section 504 of the Rehabilitation Act of 1973, as amended, and by the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act of 2008. It is the student's responsibility to request accommodations and provide appropriate documentation. Students with disabilities are encouraged to contact the Center for Disability Services (CDS) in Room 101 Taylor Center or call CDS at (334) 244-3631 prior to or upon enrollment at AUM.