

duPont Manual - Bellarmine University Dual Credit Course Syllabus

Instructor:	Gregory S. Rash, EdD
Office hours:	Rm 206 Available 7:00am-7:30am M/T/W/F, other by appointment
Telephone:	502 485-8241
Email:	greg.rash@jefferson.kyschools.us
Web:	http://www.dupontmanual.com/manualteacher/rash/
Textbook:	<i>PreCalculus: Enhanced with Graphing Utilities, 5e (Fifth Edition)</i> by Michael Sullivan and Michael Sullivan, III.

Strongly Suggested materials: Graphing calculator (TI-83, TI-83 Plus, or TI-84)

Prerequisites: Two years of high school algebra and one year of geometry

Course Description (from the 2007-2009 Bellarmine Catalog):

A study of elementary functions, their graphs and applications, including polynomials, rational and algebraic functions, exponential, logarithmic and trigonometric functions. This course is taught with graphing calculators.

Goals and Objectives:

Overall, our goal is to build the skills necessary for Calculus. Upon completion of this course, students will be able to demonstrate the ability to:

- Determine if a relation is a function and find its domain and range
- Recognize basic functions and their behavior:
Absolute value function, square root, linear, quadratic, cubic, polynomial, rational, exponential, logarithmic, inverse, piecewise-defined, and trigonometric functions
- Combine and compose functions
- Graph basic functions by hand and with a graphing calculator
- Transform the graph of a function
- Identify the possible characteristics of functions:
increasing/decreasing/constant intervals, intercepts, maximum/minimum values
- Solve equations and inequalities
- Examine trigonometric functions and solve trigonometric equations
- correctly apply trigonometric formulae and identities

These goals are in alignment with the following expectations of Bellarmine's general education curriculum:

- Demonstrate quantitative reasoning using graphical and symbolic representations.
- Demonstrate **critical thinking skills**.

- Demonstrate facility in oral and written communication.

These objectives will be met by your active effort on practice problems, by your participation in class activities and effort on preparing for tests and the cumulative final. These objectives are assessed by your performance on quizzes, tests and the cumulative final.

Also, it is important that you are able to communicate (both verbally and in writing) the mathematical ideas you learn. This involves explaining how you solved a problem and why the solution makes sense, not just being able to find the solution.

Required Text(s): Precalculus with Limits, Larson & Hostetler. Houghton Mifflin Company. Boston

Tentative Schedule of Assignments, Activities, Quizzes, Tests, Papers, etc.: Class schedule can be found on the class website under the teachers section on dupontmanual.com. All dates for assignments, projects, test, etc. are subject to change. I will do my best to update them on a weekly basis when circumstances require a change. The semester final schedule has not been posted yet, but this class will follow the date & times listed when the schedule is announced. NO early test or finals will be given; students need to arrange to take any missed test sometime after the missed test if the absence is excused. Unexcused absences on test days will result in a zero for that test.

Course Requirements and Grading Scale

Class Room Standards: Students are to follow all JCPS, MHS rules & standards. Additionally, all students are to follow the Class Expectations, which will be gone over during class the first week of class. Class Expectations & this syllabus can be found on the class web site.

Makeup Work/Absences: If you are absent for any reason, it is your responsibility to obtain all materials missed, including notes, homework solutions, assignments, etc. Since we use a block schedule & meet every other day, it is imperative that students keep up. It is a good idea to choose someone in class that you can call or email if you are absent. Alternatively, you may also look on the class website, which almost always has an up to date schedule of all the class assignments (HW, class activities, tests, projects, writing, etc). The timeline for turning in makeup work is outlined in your student planner. If you miss an exam or quiz, you will take an alternate version of the assessment immediately upon your return. Any assignments due on the day you miss must be handed in immediately upon your return unless you are missing for a field trip, performance, etc. The school policy for missing due to field trips, performances, etc. is that the work is due before you miss the class. Since exams are announced well in advance, missing the class period before an exam does not get you out of taking the exam on the scheduled date. If you are in class on the scheduled date of an exam or quiz, you will take the exam or quiz. One point will be deducted for each day homework/effortwork assignments are late beyond due date defined by the duPont Manual Red Book. One point will be deducted for each day homework/effortwork

assignments are late beyond due date defined by the Red Book. The deducted points guidelines for late projects, writing assignments & take home test beyond due date defined by the Red Book are 10% deduction per day late. Please note, this is NOT class days late, it is days late includes weekends and any days students are away from school. The justification for this is that the student gained all these days extra to work on the project or take home test, so they are penalized for those days.

Forms of Assessment & Grading Scale: Exams, quizzes, class participation, homework/effortwork, class work, calculator assignments, group assignments, projects & content writing are used to assess the students' performance. The JCPS AP/College grading scale will be used in this class.

GRADING SCALE

- A 93%-100%
- B 86% - 92%
- C 79% - 85%
- D 70% - 78%
- U 0% - 69%

GRADING STANDARDS

- 40% Tests
- 20% Quizzes
- 20% Projects/Writing/ Group work
- 20% Homework/Effortwork

Test: Test will be given for all material covered. Typically at the end of each chapter, however some test may cover multiple chapters. Both semester finals will be cumulative for the given semester.

Quizzes: Unannounced quizzes will be given to assess students comprehension throughout the year.

Projects/Writing/Group work: During the academic year, each student will have to complete a project and an individual portfolio writing assignment. The instructor reserves the right to change the project or writing prompt from year to year, but examples of previous writing topics include writing a letter to the county's superintendent of schools expressing how their math education stacks up against other top tiered countries and writing a letter to the schools site based decision board expressing their opinion on a hypothetical change in the grading standard, etc.

The instructor reserves the right to change the grading standards percentages as long as they stay within school board or the schools Site Based Decision Making (SBDM) committee guidelines & they are changed at the beginning of the school year. Please note that 10% per day (not class) will be deducted for late projects, writing assignments, etc., since you gain more than 1 day extra time to work on the assignment when points are only deducted for each class it is late.

Attendance Policy: This course will follow the JCPS, duPont Manual & Bellarmine University attendance policies. If a conflict between the policies occurs, the students will follow the policy found in the DuPont Manual Red Book. Bellarmine University requires students who will be absent from class while representing the University to inform their instructors in two steps. During the first week of the course, students must meet with each instructor to discuss the attendance policy and arrangements for absences related to University-sponsored events. Second, students must provide the instructor with a signed Student Absentee Notification Form, available via the student portal on the University intranet, at the earliest possible opportunity, but not later than

the week prior to the anticipated absence. The Student Absentee Notification Form does not serve as an excused absence from class. Your instructor has the final say about excused and unexcused absences and it is the student's responsibility to know and abide by the instructor's policy.

Academic Dishonesty: Cheating of any kind will not be tolerated. All involved parties will earn zeros on the assignment or assessment and a disciplinary referral will be sent to the office. The following are examples of cheating; however, this list is not all inclusive:

- Representing the work of others as your own (copying homework, letting someone copy your work etc.)
- Looking at another student's paper during an exam or quiz.
- Using prohibited materials (notes, etc.) on exams or quizzes.
- Sharing calculators during exams or quizzes
- Discussing exams or quizzes with students in other sections of the class who have not yet taken them.

Additionally, in addition to the duPont Manual Academic Integrity Policy, I strongly endorse and will follow the academic honesty policy as published in Bellarmine's Catalog 2009-2010 (pp. 48-49) and in the 2009-2010 Student Handbook (pp. 16-19); both documents are available online via the student portal on the University's intranet. Students must be fully aware of what constitutes academic dishonesty; claims of ignorance cannot be used to justify or rationalize dishonest acts. Academic dishonesty can take a number of forms, including but not limited to cheating, plagiarism, fabrication, aiding and abetting, multiple submissions, obtaining unfair advantage, and unauthorized access to academic or administrative systems or information. Definitions of each of these forms of academic dishonesty are provided in the academic honesty section of the 2009-2010 Student Handbook. All detected instances of academic dishonesty will be reported to the Senior Vice President for Academic Affairs, and sanctions will be imposed as dictated by the policy. Penalties range from failing an assignment or test to dismissal from the University, depending, in part, on the student's previous record of academic dishonesty. On the second offense during a student's academic career, as a minimum additional penalty, the SVPAA will immediately suspend the student for the semester in which the most recent offense took place. On the third offense, the SVPAA will immediately dismiss the student from the University.

Disability Services: Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Disability Services Coordinator at duPont Manual High School.