

## Darnell-Cookman Curriculum Paper

**COURSE TITLE:** Geometry      **INSTRUCTOR'S NAME:** Mr. Roger Felice (felicer@duvalschools.org)

**MISSION STATEMENT:** Our mission at Darnell-Cookman is to prepare students for collegiate success through a rigorous college preparatory curriculum integrated with professional medical standards emphasizing integrity, the pursuit of academic excellence, and a passion for life-long learning.

**INTRODUCTION AND COURSE DESCRIPTION:** This course is the second in the CPM series. Students will further develop their problem-solving abilities, and will connect geometry with algebra while writing, solving, and graphing equations. They will extend their knowledge of ratios to trigonometry, area, volume and perimeter. They will acquire improved spatial visualization (3D ideas) and will present logical arguments and justifications of solutions to problems. This course emphasizes understanding mathematics; and much like Algebra I, many problems will require a team effort. As the year progresses, we will review concepts taught in Algebra I, as I prepare my students to undertake Algebra II in the 9<sup>th</sup> grade.

Student organization, test performance, and classroom participation/ teacher judgment will all serve to determine the level of success enjoyed by my students in this course.

### **COURSE OUTLINE:**

Textbook: College Preparatory Math (CPM) Geometry Volumes I & II.      [www.cpm.org](http://www.cpm.org)

Weeks 1-9      Unit 0 - Study Teams and Coordinate Grids.  
                    Unit 1 - Area, Perimeter, Midpoint, Pythagorean Theorem.  
                    Unit 2 - Bisect, Triangles, Beginning Proofs.  
                    Unit 3 - Angles and Lines, Parallelism, Figurative Numbers.

Weeks 10-18      Unit 4 - Spatial Visualization, Volume, Surface Area.  
                    Unit 5 - Transformations, Congruent Triangles, Triangle Inequality.  
                    Unit 6 - Triangle Theorems, Writing Proofs.

Weeks 19-27      Unit 7 - Right Triangle Trigonometry.  
                    Unit 8 - Area, Volume, Proportions, Similarity.  
                    Unit 9 - Polygons, Area, Proofs.

Weeks 28-36      Unit 10 - Circles, Area: Sectors, Diameter-Chord Theorems.  
                    Unit 11 - Probability, Expected Value, Area.  
                    Unit 12 - Circles, Volume, Surface Area Applications.

**STUDENT EVALUATION** (subject to change): Grades will be calculated using the following scale:

Tests and Quizzes: 90%      Class Participation: 5%      Assignments and Projects: 5%

**Occasionally, extra credit will be offered to the entire class - NOT TO INDIVIDUAL STUDENTS.**

**HOMEWORK/ LATE WORK POLICY:** Since classroom participation is integral to student success in this course, students will be asked several questions each week during class-time instruction. This would afford the teacher sufficient evidence to determine whether or not individual students have in fact studied and absorbed the material. On the other hand, the primary objective of homework is to provide students with additional personal practice on their own time. Homework will therefore be assigned periodically, but exams/quizzes will be held very regularly. Students not producing homework will automatically receive a score of "0", unless (a) a valid attempt to complete the assignment is genuinely made, or (b) a written and signed excuse for its absence is

presented. All homework assignments are expected to be completed tidily, and presented within the first five minutes of class.

**EDUCATIONAL MATERIALS:** \*One “scientific” calculator. \*Notebook paper.  
\*Black/Blue pens – NO RED PENS. \*#2 Pencils/ eraser/ sharpener. \*One ruler.  
\*Graph paper. \*One 1½-inch binder. 3 dividers for Notes, Homework, & Assignments.

**MAKE-UP WORK POLICY:** For each day a student is absent, he/she will be allowed one school day to complete missed work. In other words, if a student has been absent for 3 days, he/she will be given 3 days to complete and turn in that particular assignment for full credit. However, it is the responsibility of the student to inform the teacher of any assignment to be made up due to absence. A student with prior knowledge of a pending absence (a planned vacation, a funeral, or a wedding, for instance), should advise the teachers of that development ahead of time.

**PARENT/TEACHER CONFERENCE INFORMATION:** The quickest, easiest, and most efficient way to contact me is through e-mail (felicer@duvalschools.org). However, you may call the Guidance Office at 630-6800 to set up a conference to discuss your child’s progress. **DATES:** Every Thursday before school.

**TUTORING SCHEDULE:** Over the next few weeks, I will inform students of my tutoring schedule.

**Rules:** \* Student must not be a discipline problem.  
\* ALL assignments from the previous week must be completed.  
\* Students are expected to arrive on time, and be prepared to learn.  
\* Parents must make PROPER transportation arrangements.

**COUNTY GRADING SCALE/ GRADE RECOVERY:**

A: 90-100                      B: 80-89                      C: 70-79                      D: 60-69                      F: 0-59

**NOTE:** Students receiving a “D” or an “F” on any report card may be eligible for Grade Recovery. Upon successful completion of certain pre-determined tasks, the student’s grade would be moved up (a “C” is the highest).

**PROGRESS REPORTS:** (Dates are as follows):

**PR1:** Sep 23-24                      **PR2:** Dec 2-3                      **PR3:** Feb 24-25                      **PR4:** May 12-13

**FIELD TRIPS:** A number of field trips have been organized which, while educational in nature, will also be quite enjoyable. If you wish to act as a chaperone, please let us know. **School Board policy mandates that all chaperones and volunteers MUST have a background check performed.**

**FINALLY:** Since your children do catch colds or develop allergies, please assist us by donating tissues and/or hand sanitizer if you can. I fully expect us to have a fruitful year at Darnell-Cookman. Thank you for allowing me to be of service to you.