



Department of Mathematics, Computer & Information Science

CALCULUS & ANALYTIC GEOMETRY III

MA3330 • SYLLABUS SPRING 2013

Professor: **Frank Sanacory**

Office: **NAB 2014**

Email: SanacoryF@oldwestbury.edu

Telephone: **(516) 876-3968**

Office Hours **MTWR 3:00 pm – 4:00 pm**

Course Web Page https://webfs.oldwestbury.edu/faculty_staff/sanacoryf/

TEXTBOOK: **Schaum's Outline of Calculus, 6th Edition.** Frank Ayres , Elliott Mendelson.

PREREQUISITES: MA2320: Calculus & Analytic Geometry II.

COURSE DESCRIPTION: We will continue with the Calculus from MA 2320. We will study three main areas. The first is vector algebra and geometry of three-dimensional space including: lines, planes, and curves in space; polar, cylindrical, and spherical coordinate systems. Then using this geometry we learn limits, partial differentiation, directional derivatives, max-min theory and Lagrange Multipliers. The final area of study is integration, including double, triple integrals, line integrals, and the divergence, Green's and Stokes Theorems.

COURSE OBJECTIVES: After successful completion of this course students should understand the algebra of vectors, meaning of limits, continuity, and derivatives of functions of two or three variables and double and triple integrals and green's Theorem. Also be able to use these skills to solve a variety of problems.

COURSE EVALUATION & GRADING: Your grade for the course will be based on your homework/quiz performance and a computer project (20%), three tests (45%) and a comprehensive final exam (35%). The grading scale is as follows:

A = [93, 100]	B + = [87, 89]	C + = [77, 79]	D + = [67, 69]	
A – = [90, 92]	B = [83, 86]	C = [73, 76]	D = [63, 66]	F = [0, 59]
	B – = [80, 82]	C – = [70, 72]	D – = [60, 62]	

TUTORIAL: Drop-in tutorial is available in the mathematics learning center, Room **A118**.

ACCOMMODATIONS FOR STUDENTS WITH SPECIAL NEEDS: SUNY/Old Westbury is committed to assuring that all students have equal access to learning and social activities on campus. If you have or suspect you may have a physical, psychological, medical or learning disability that may impact how you function academically, please contact Dr. Lisa Whitten, Director of the Office of Services for Students with Disabilities (OSSD). We will determine if you qualify for academic accommodations and arrange them with your professors if you do. Our location is Academic Village, D112, and you can reach us at 516-876-3009, TTY: (516) 876-3083, or whittenl@oldwestbury.edu.

RESPECT: No cell phones in class and no texting.

FINAL EXAM: Will be held Monday May 13 in our regular classroom at the regular class time.