



Department of Mathematics, Computer & Information Science

FALL 2019

MA 6520 STATISTICS II

Instructor: Frank Sanacory

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Office Hours: Monday 4:00 – 4:45, Tuesday 4:00 – 5:30 and
Wednesday 10:00-12:00

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Catalog Description:

Continuation of MA 6520. We will continue with analysis of variance, analysis of covariance, logistic regression, non-parametric tests. The course will also have an introduction to Bayesian statistical techniques. The use of computer statistical packages will be important.

3 cr.

Prerequisite: MA 6510.

Course Objectives:

- The students will demonstrate knowledge of basic and advanced statistics: sampling techniques, regression, inference, hypothesis testing, analysis of variance, nonparametric tests and Bayesian Statistics.
- The student will demonstrate knowledge in use of R for statistical analysis.
- The students will demonstrate knowledge of statistical model building and verification and validation techniques.

Grading Scale: A = 93-100, A- = 90-92, B+ = 87-89, B = 83-86, B- = 80-82, C+ = 77-79, C = 73-76, C- = 70-72-, F 69 or below.

TEXTBOOKS: **Discovering Statistics Using R.** by Andy Field, Jeremy Miles, Zoe Field. SAGE Publications Ltd; 1 edition (April 5, 2012). ISBN-13: 978-1446200469.

PREREQUISITE: Admission to MS in Data Analytics.

COURSE EVALUATION & GRADING:

Midterm	30%
Final	35%
Homework/Projects	35%

A	93-100	B+	87-89	C+	77-79	
A-	90-92	B	83-86	C	73-76	F 0-69
		B-	80-82	C-	70-72	

ACADEMIC INTEGRITY POLICY

As members of the Old Westbury community, students are expected to adhere to standards of honesty and ethical behavior. Plagiarism and other types of academic dishonesty are condemned at all academic institutions. These acts detract from the student's intellectual and personal growth by undermining the processes of higher learning and the struggle with one's own expression of ideas and information.

Good academic procedure requires giving proper credit when using the words or ideas of others.

Plagiarizing means "presenting somebody else's words or ideas without acknowledging where those words and ideas

come from" (Ann Raimes, Keys for Writers, 7th ed., p.135). Examples include:

- copying material from the Internet or other sources and presenting it as one's own
- using any author's words without quotation marks; using any quotation without credit
- changing any author's words slightly and presenting them as one's own
- using ideas from any source (even in one's own words) without proper credit
- turning in any assignment containing material written by someone else (including tutor or friend); buying work and submitting it as one's own
- submitting the same assignment in more than one class without permission of the instructor

Know what plagiarism is and how to avoid it; for guidance see Raimes or any other college writing handbook.

Other types of academic dishonesty include unauthorized collaboration or copying of students' work (cheating); falsifying grades or other assessment measures; destroying the academic work of another student; the dishonest use of electronic devices; and others. When detected and verified, plagiarism and other academic dishonesty will have serious consequences.

Please note: In this matter, ignorance of the Academic Integrity Policy is never an acceptable excuse.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

If you have or suspect you may have a physical, psychological, medical or learning disability that may impact your course work, please contact Stacey DeFelice, Director, The Office of Services for Students with Disabilities (OSSD), NAB, 2065, Phone: 516-628-5666, Fax (516) 876-3005, TTD: (516) 876-3083. E-mail: defelices@oldwestbury.edu. The office will help you determine if you qualify for accommodations and assist you with the process of accessing them. All support services are free and all contacts with the OSSD are strictly confidential. SUNY/Old Westbury is committed to assuring that all students have equal access to all learning activities and to social activities on campus.