**Florida International University**

**Department of Electrical and Computer Engineering**

**Miami, Florida 33199**

**EEL 3120: Introduction to Linear Systems**

# Summer, 2019

**Instructor:** Dr. Jean H. Andrian EC 3912, Tel: 348‑2115, E-Mail: andrianj@fiu.edu

**Office:**  EC 3912

**Office Hours:** Mondays and Wednesdays: 10:00 AM – 11:30 AM in EC 3912.

No consultations on exam days

**Textbook:** David Lay " Linear Algebra and its applications”, fifth Edition, Addison Wesley, 2016 .

**Learning Objectives:** to give students the necessary mathematical tools for courses in signals and systems, circuits, communication systems, control systems, and digital signal processing.

**Topical Outline:**

1. Linear equations in Engineering
2. Matrix Algebra applied to circuit analysis
3. Vector spaces and signals
4. Eigenvalues, eigenvectors. Eigen functions and signal representations
5. Applications of orthogonality in signal analysis

**Evaluation:**

Test #1 45 points **May 22, 2019**

Test #2 45 points **June 12, 2019**

HW & MATLAB 10 points

Total 100 points

**In-Class Rule**

NO Cellular Phone (or Beeper) is allowed to ring inside the classroom.

**Grading Policy:**

A 100-95 B+ 85-89 C+ 70-74 F 0-59

A- 90-94 B 80-84 C 65-69

B- 75-79 D 60-64

**Missed Test:**

Call Instructor or Secretary (348-2807) BEFORE test time to notify of problem and to make special arrangements with instructor before next class.

**Department Regulations Concerning Incomplete Grades:**

1. Must be unable to complete the course through documented circumstances beyond his/her control.

2. Must be passing the course prior to that part of the course that is not completed.

3. Must contact the instructor or the secretary immediately before or during the part missed, so the instructor will be aware of the circumstances causing the incomplete.

4. Must make up the incomplete work through the instructor of the course and should not be allowed to sit through another entire course to make up the incomplete.

5. Must make proper arrangements with the instructor to complete the course before the last two weeks of the second term.

Homework will be assigned every week.