FAU
FLORIDA ATLANTIC UNIVERSITY

COLLEGE OF ENGINEERING & COMPUTER SCIENCE
Department of Computer & Electrical Engineering & Computer Science
777 Glades Road, EE 403
Boca Raton, FL 33431
561.297.3855, fax: 561.297.2800
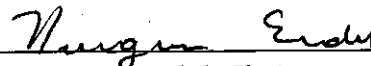*www.ceecs.fau.edu*

MEMORANDUM

TO: University Graduate Programs Committee

FROM: William T. Rhodes, Chair, College of Engineering & Computer Science Graduate Programs Committee

SUBJECT: Request for Catalog Changes

DATE: March 14, 2014

As a result of a recent review of its graduate program, the Department of Computer & Electrical Engineering and Computer Science (CEECS) requests changes in the University Catalog. These changes—the removal and addition of courses in five different graduate degree program areas within the department—are detailed in the attached document, dated November 1, 2013.

Should clarification be desired, the Registrar's Office is asked to contact Prof. Mihaela Cardei, Chair of the CEECS Graduate Committee: mihaela@cse.fau.edu; 297-3459.
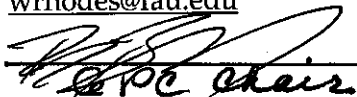

Mihaela Cardei, Chair
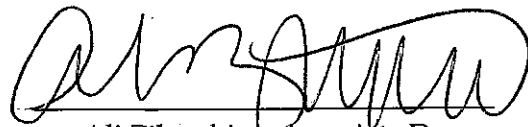CEECS Graduate Committee
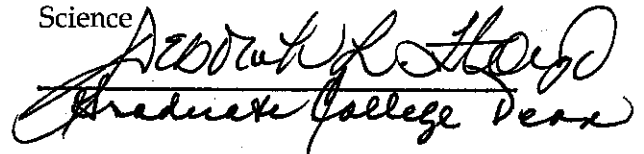mihaela@cse.fau.edu

Nurgun Erdol, Chair
CEECS Department

William Rhodes, Chair
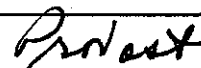Engineering College Graduate Committee
wrhodes@fau.edu

Ali Zilouchian, Associate Dean
College of Engineering & Computer Science

Changes to the FAU Catalog
Approved by the CEECS Graduate Programs Committee
on November 1st 2013

Master of Science with Major in Computer Engineering

Prerequisites:
- REMOVE: CDA 3201C Introduction to Logic Design
- REMOVE: MAD 2104 Discrete Mathematics

Software Development group:
- ADD: COP 5595 Component Programming with .NET
- ADD: CEN 6027 Software Maintenance and Evolution
- ADD: CAP 6018 Multimedia Programming
- ADD: CEN 6075 Software Requirements Engineering
- ADD: CEN 6085 Software Architecture and Patterns

Computer Systems group:
- REMOVE: CNT 5715 Computer Network Programming
- REMOVE: COP 6617 Distributed System Design
- REMOVE: CNT 6518 Ad Hoc Networks
- ADD: EEL6591 Wireless Networks
- ADD: CAP 6778 Advanced Data Mining and Machine Learning
- ADD: CNT 6885 Video Communications
- ADD CAP 6411 Foundations of Vision

Master of Science with Major in Computer Science

Prerequisites:
- REMOVE: COT4420 Formal Languages and Automata Theory
- REMOVE: MAD 2104 Discrete Mathematics

Software Development group:
- ADD: COP 5595 Component Programming with .NET
- ADD: CEN 6027 Software Maintenance and Evolution
- ADD: CAP 6018 Multimedia Programming
- ADD: CEN 6075 Software Requirements Engineering
- ADD: CEN 6085 Software Architecture and Patterns

Computer Systems group:
- REMOVE: CNT 5715 Computer Network Programming
- REMOVE: COP 6617 Distributed System Design
- REMOVE: CNT 6518 Ad Hoc Networks
- ADD: EEL6591 Wireless Networks
- ADD: CAP 6778 Advanced Data Mining and Machine Learning
- ADD: CNT 6885 Video Communications
- ADD CAP 6411 Foundations of Vision

Master of Science with Major in Information Technology and Management (Advanced Information Technology Track)

- REPLACE "CNT 5715 Computer Network Programming" with "COT 6930 Topics in Computer Science"
- ADD to the CEECS electives the following courses:
    - CEN 6405 Computer Performance Modeling
    - CNT 6885 Video Communication
    - CEN 6085 Software Architecture and Patterns
- REPLACE "COP 6731 Theory and Implementation of Database Systems" with the course "CAP 6673 Data Mining and Machine Learning"

Master of Science with Major in Electrical Engineering

Degree Requirements:

Master of Science Degree Thesis Option (30 credits)
- REPLACE "d. A 3-credit math course." with "d. A 3-credit course with Math prefix or one of the courses: EEL 5613 Modern Control, EEL 5526 Digital Processing of Signals, EEL 6482 Electromagnetic Theory 1, EOC 5172 Mathematical Methods in Ocean Engineering 1."

Master of Science Degree Non-Thesis Option (33 credits)
- REPLACE "c. A 3-credit math course." with "c. A 3-credit course with Math prefix or one of the courses: EEL 5613 Modern Control, EEL 5526 Digital Processing of Signals, EEL 6482 Electromagnetic Theory 1, EOC 5172 Mathematical Methods in Ocean Engineering 1."

Doctor of Philosophy with Major in Electrical Engineering

Degree Requirements:
- REPLACE "5. At least 6 credits in mathematics are required as part of coursework beyond the bachelor's degree." with "5. At least 6 credits in courses with Math prefix, EEL 5613 Modern Control, EEL 5526 Digital Processing of Signals, EEL 6482 Electromagnetic Theory 1, EOC 5172 Mathematical Methods in Ocean Engineering 1 are required as part of coursework beyond the bachelor's degree."