University of New Orleans
Summer 2015
Course List

ENEE 5535	Intro to Digital Signal Processing	TBA	TBA
ENEE 6535	Adaptive Filtering	TBA	TBA
ENME 5023	Intermediate Engineering Analysis	TBA	TBA
ENME 6024	Partial Differential Equations-Boundary Value Problems	TBA	TBA
ENME 6753	Advanced Continuum Mechanics	TBA	TBA
PHYS 5211	Introduction to Computational Physics	Mon – Wed	1:50 – 4:35p
PHYS 6325	Underwater Acoustic System Analysis	TBA	TBA

Course Descriptions

ENEE 5535 **Intro to Digital Signal Processing** **TBA** **TBA**
Instructor: Maria Kalcic

Prerequisite for ENEE 4535: ENEE 3530 with C or better. Fundamental concepts of digital signal processing are developed and include signal representation; Fourier series; z-transforms; discrete Fourier series; discrete random signals; data window functions; applications of DFT to convolution, auto and cross-correlation and power and energy spectrum distribution estimation; digital filter design; homomorphic signal processing.

ENEE 6535 **Adaptive Filtering** **TBA** **TBA**
Instructor: Maria Kalcic

Prerequisite: ENEE 6533. A study of linear optimum filtering including Wiener Filters and Kalman Filters; linear FIR adaptive filtering using method of steepest descent and recursive least squares; fast recursive algorithms and fast transversal filters.

ENME 5023 **Intermediate Engineering Analysis** **TBA** **TBA**
Instructor: Salvatore Guccione

Prerequisites for ENME 4023: MATH 2221 and ENME 3020. Application of complex variables; contour integration; conformal mapping; Cartesian tensors; non-linear differential equations; and selected problems in mechanical engineering.

ENME 6024 **Partial Differential Equations-Boundary Value Problems** **TBA** **TBA**
Instructor: Salvatore Guccione

Prerequisite: ENME 4023 or consent of department. A unified study of the techniques available for the solution of boundary value problems of the types found in advanced engineering analysis. Application to representative problems from specific areas of engineering.

ENME 6753 **Advanced Continuum Mechanics** **TBA** **TBA**
Instructor: Salvatore Guccione

Prerequisite: consent of department. Kinematics of motion and deformation; general development of balance equations of continuum mechanics; theory of constitutive equations; study of the constitutive equations for elastic, hyperelastic, viscoelastic, and plastic materials.

PHYS 5211 **Introduction to Computational Physics** **Mon – Wed** **1:50 – 4:35p**
Instructor: Juliette Ioup

Prerequisites: PHYS 4501 and CSCI 1203, CSCI 1205 or CSCI 1581. An introduction to the computational treatment of physics problems in areas such as electromagnetic phenomena, acoustic wave propagation, scattering, atomic structure, and astrophysics.

PHYS 6325 **Underwater Acoustic System Analysis** **TBA** **TBA**
Instructor: Stan Chin-Bing

Prerequisites: PHYS 4322 and PHYS 4205. Underwater acoustics, Fourier methods, noise, beamforming, target characteristics, statistical basis for performance analysis, examples of acoustic system analysis.

University of New Orleans
Registration Information

Admissions
Applicants for non-degree admission to the Graduate School must have a Bachelor's degree. Up to 12 hours earned as a non-degree student may be transferred toward a Graduate degree upon approval of the Graduate Program. Applicants for non-probational admission to a Graduate Program should have at least a 2.5 undergraduate average, a 3.0 average in any graduate work taken, and satisfactory test scores. Individual programs may have additional requirements.

Applicants for undergraduate admission who wish to earn a degree must meet UNO undergraduate admission requirements. Students not seeking a degree may apply to be a special student.

All students must satisfy prerequisite requirements for UNO courses or receive consent of the department offering the course.

Tuition
Tuition is $1,322 per 3-hour course for graduate students and $1,209 per 3-hour course for undergraduate students. Please call Ms. Zella Huaracha at (504)-280-5590 for any additional information. *Note: The Center of Higher Learning makes every attempt to accurately list tuition rates for our participating universities. It is advisable, however, to check with the University before submitting your final paperwork or payment.*

Registration
Registration for Summer 2015 will be held on Tues., May 26, 2015 from 10:00a – 1:00p in Building 1103, Room 103. Students may also register anytime with Keith Long at (228) 688-7662.

Important Dates

May 26	Registration
June 1	Classes begin
July 27 - 28	Final Exams

Payment
Payment can be made with a personal check**,** credit card, cash, or by an employee training form.

Student Advisement
Dr. George Ioup (Stennis, x-7213, x-5579; UNO (504) 280-5590) will be available at Stennis to counsel students who are interested in the UNO Ph.D. Program in Engineering and Applied Science, the Masters Program in Applied Physics, and any other UNO degree program. Make appointments by calling Ms. Zella Huaracha at 504 280-5590.