Electrical Engineering Program (BSEE) - Core Curriculum Flow Chart

General Chemistry 1 (CHM 2045 (3))
- General Chemistry Lab (1) (CHM 2045L)

Fund of Eng (EGN 1002 (3)) (required zero credit discussion)
- Calculus Analytical Geometry 1 (MAC 2311 (4))
- Calculus Analytical Geometry 2 (MAC 2312 (4))
- Calculus Analytical Geometry 3 (MAC 2313 (4))
- Engineering Math 1 (MAP 3305 (3))
- Engineering Math 2 (MAP 3305 (3))

Electrical Engineering Practice (EEL 3012 (1))
- Electrical Engineering Practice Lab (1) (EEL 3012L)

Electrical Engineering Laboratory 1 (EEL 3118L (2))
- Electronics 1 (EEE 3300 (4))
- Electronics 2 (EEE 4361 (3))
- Engineering Design 1 (EGN 4950C (3))
- Engineering Design 2 (EGN 4952C (3))

Electronics Laboratory 2 (EEL 4119L (3))

Calculus for Engineers (EEL 2161 (4))
- Logic Design (CDA 3201C (4))

Microcontrollers (EEL 4746 (3))
- Microcontroller Systems (CDA 3331C (4))

General Physics 1 (PHY 2048 (4))
- General Physics 1 Lab (PHY 2048L (1))
- General Physics 2 (PHY 2049 (4))
- General Physics 2 Lab (PHY 2049L (1))

Circuits 1 (EEL 3111 (3))

Electromagnetic Fields & Waves (EEL 3470 (4))

Intro. to DSP (EEE 4510 (3))

Analysis of Linear Systems (EEL 4656 (3))
- Stochastic Process & Random Signals (EEE 4541 (3))

Communication Systems (EEE 4512 (3))
- Control Systems (EEE 4652 (3))
- Control Systems Lab (1) (EEE 4652L (1))

Examples of Upper Division Math Electives:
- MAS 2103 Matrix Theory (only exception)
- MAP 4306 Engineering Mathematics 2
- MAD 4301 Graph Theory
- MAA 4402 Introductory Complex Analysis

Examples of Technical Electives:
- COP 3014 Foundations of Computer Science
- COP 3530 Data Structures & Algorithms Analysis
- EGN 3343 Engineering Thermodynamics
- EGN 3311 Statics
- EEL 4949 Co-Op Educ (must complete 3 semesters)

Electronics 1 (EEE 3300 (4))
- Electromagnetic Fields & Waves (EEL 3470 (4))

Circuits 2 (EEL 3112 (3))

Circuits 1 (EEL 3111 (3))

Circuits 2 (EEL 3112 (3))

Electromagnetic Fields & Waves (EEL 3470 (4))

Intro. to DSP (EEE 4510 (3))

Communication Systems (EEE 4512 (3))

† Communication Systems Lab (1) (EEE 4652L (1))

Need a Total of 18 credits of Upper Division Electives
- 9 credits of EEL/EEE
- 6 credits of Technical Electives (another engineering discipline)
- 6 credits of EEL/EEE Electives
- 3 credits of Upper Division Math Electives

† Only one lab is required, choose either EEL 4512L OR EEL 4652L.

Pre-requisite Indicates a co-requisite may be taken concurrently

Note: A Technical Elective is defined as an upper-division course in another engineering discipline such as Civil, Computer Science or Engineering, Mechanical, and Ocean.

This flowchart is reviewed periodically and is subject to change. The information is intended to inform and is not a replacement for a degree audit conducted by an Academic Advisor.

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Florida Atlantic University