**REQUIREMENTS FOR THE DEGREE OF Fall 2014**

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING**

**Accredited by the Engineering Accreditation Committee of the ABET**

**FRESHMAN YEAR**

ENGL 1301 Rhetoric and Composition 3

CHEM 1311/1111 General Inorganic Chemistry I and Lab 4

(prereq: MATH 1314, HS Chemistry or CHEM 1481)

MATH 2413 Calculus I (prereq: MATH 1348) 4

CSEN 2304 Introduction to Computer Science 3

(prereq: MATH 1314)

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ENGL 1302 Rhetoric and Composition 3

HIST 1301 American History 3

PHYS 2325/2125 University Physics I and Lab 4

(prereq: PHYS 1305/1105; coreq: MATH 2413)

MATH 2414 Calculus II (prereq: MATH 2413) 4

EEEN 2340 Digital Logic Design (prereq: CSEN 2304) 3

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 **SOPHOMORE YEAR**

HIST 1302 American History 3

POLS 2301 Govt. & Politics of U.S. 3

PHYS 2326/2126 University Physics II and Lab 4

(prereq: PHYS 2325/2125; coreq: MATH 2414)

MATH 3320 Differential Equations (prereq: MATH 2414) 3

EEEN 3449 Microprocessor Systems (prereq: EEEN 2340) 4

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POLS 2302 Govt. & Politics of Texas 3

EEEN 2323 Network Analysis I 3

(prereq: MATH 2414; coreq: PHYS 2326/2126, MATH 3320)

*^Language/Philosophy/Culture* 3

*^Communication\**\* 3

*^Creative Arts* 3

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**JUNIOR YEAR**

MATH 3415 Calculus III (prereq: MATH 2414) 4

EEEN 3321 Network Analysis II 3

(prereq: EEEN 2323, CSEN 2304, MATH 3320)

EEEN 3325 Electronics I 3

(prereq: EEEN 2323, PHYS 2326/2126)

EEEN 3334 Random Signals (prereq: MATH 2414) 3

*^Social/behavioral* ………………….3

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EEEN 3212 Circuits and Electronics Lab (coreq: EEEN 3325) 2

EEEN 3333 Linear Systems and Signals (prereq: EEEN 3321) 3

MATH 4341 Linear Algebra 3

EEEN 3324 Electromagnetics (prereq: PHYS 2326/2126, MATH 3320) 3

EEEN 4355 Digital Systems Engineering (prereq: EEEN 3325, EEEN 2340) 3

CEEN 3317 Engineering Economy (prereq: junior standing) 3

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 **SENIOR YEAR**

EEEN 4342 Electronics II (prereq: EEEN 3325) 3

EEEN 4422 Electric Drives (prereq: EEEN 3321) 4

EEEN 4252 Advanced Laboratory 2

(prereq: EEEN 3212, EEEN 3333, EEEN 3449, Communications elective)

EEEN 4354 Linear Control Systems (prereq: EEEN 3333) 3

Approved Elective\*\*\* 3

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*Total Number of Hours: 127*EEEN 4224 Electrical & Computer Engineering Projects Lab 2

(prereq: EEEN 4252)

EEEN 4329 Communications Engineering 3

(prereq: EEEN 3333, EEEN 3334)

Approved Elective\*\*\* 3

Approved Elective\*\*\* 3

Approved Elective\*\*\* 3

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All general education elective courses must be chosen from the approved elective list, after discussions with the academic advisor.

\*\*COMS 2374, or ENGL 2374 is strongly recommended.

\*\*\*Approved major-related electives must be chosen as a sequence of courses to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.

^For courses listed under Core Curriculum “Components” see “General Requirements for Graduation with a Baccalaureate Degree” in an earlier section of this Catalog.

## General Education Electives

**\* Recently added to the general education electives list**

**^Creative Arts**

ARTS 1303, \*ARTS 1304

COMM 2304

MUSI 2306, MUSI 2308, MUSI 2310

THEA 2310

**^Language, Philosophy and Culture**

ANTH 2302

ENGL 2331, ENGL 2342, ENGL 2362

FREN 1311, FREN 1312, FREN 2311, FREN 2312

HIST 2321, HIST 2322

PHIL 1301

SPAN 1313, SPAN 1314, SPAN 1373, SPAN 2301, SPAN 2302, SPAN 2311, SPAN 2312.

**^Communication**

COMM 1307

COMS 1311, COMS 1315, COMS 1336, COMS 2374

ENGL 2374 (recommended)

**^Social/Behavioral**

ANTH 2301

ECON 2301, ECON 2302

EDKN 2335

EVEN 2372

HSCI 2323

POLS 2304, POLS 2340

PSYC 2301

SOCI 1301, SOCI 1306, SOCI 2361