## **School of Engineering and Engineering Technology**

## ELECTRICAL & COMPUTER ENGINEERING, B.S. COMPUTER CONCENTRATION (ECCP)

2023-24

SUGGESTED COURSE SEQUENCE

First Semester - Fall	Second Semester - Spring
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BIBL 1033 3 Biblical Literature  CPGR 2102 2 Intro to Computer Engineering (Fall only)  ENGL 1013 3 English Composition I  ENGR 1311 1 Manufacturing Processes Lab  ENGR 1513 3 Intro to Engineering Practice I (Fall only)  LETU 1101 1 Cornerstones of Life & Learning  MATH 1903 3 Calculus I (1)	ENGL 1023 3 English Composition II  ENGR 1523 3 Intro to Engineering Practice II (Spring only)  MATH 2013 3 Calculus II (1)  PHYS 2011 1 University Physics I Lab (Spring only)  PHYS 2013 3 University Physics I (Spring only)  THEO 2043 3 Biblical Theology for the Christian Life
T7 Hours  COSC 1303 3 Computer Science I  EEGR 2051 1 Circuits & Measurements Lab (1)  EEGR 2053 3 Electric Circuits (1)  MATH 2203 3 Differential Equations  PHYS 2021 1 University Physics II Lab (Fall only)  PHYS 2023 3 University Physics II (Fall only)  3 Civic Engagement Elective	Thours  COSC 2103 3 Computer Science II  EEGR 2163 3 Advanced Circuits (1) (Spring only)  EEGR 3213 3 Digital Electronics  ENGR 2023 3 Introduction to Mechanics (1)  ENGR 2400 0 Sophomore Design Seminar (Spring only)  MATH 2003 3 Discrete Mathematics
Fifth Semester - Fall	Sixth Semester - Spring
COMM 1113 3 Intro to Speech Communication  COSC 2203 3 Data Structures  CPGR 4233 3 Intro to Microprocessors/computers (Fall only)  EEGR 3243 3 Electronics and Lab (Fall only)  MATH 2303 3 Linear Algebra	BUSI 3023 3 Entrepreneurship for Engineers <sup>(2)</sup> CPGR 4253 3 Microcomputer Design (Spring only) EEGR 4283 3 Digital Signal Processing (Spring only) ENGR 2704 4 Project Mgmt, Design & Entrepreneurship MATH 3 Math Elective <sup>(3)</sup>
BIBL 3 Biblical Engagement Elective  CHEM 1111 1 General Chemistry I Lab  CHEM 1113 3 General Chemistry I  COSC 3603 3 Networks & Data Communications(Fall only) (4)  ENGR 4813 3 Senior Design I (Fall only)  MATH 3403 3 Statistics	Eighth Semester - Spring  15 Hours  ENGR 4823 3 Senior Design II (Spring only)  THEO 3 Theological Engagement Elective  3 Civic Engagement Elective  3 Ingenuity Elective  3 Technical Elective (5)

## **TOTAL HOURS 126**

- 1: Minimum grade of 'C' required.
- 2: ENGR 6223 Advanced Engineering Mathematics recommended if considering engineering graduate school.
- 3: MATH 3453, 4233, 4253, 4403 or 4513
- 4: COSC 3303 Computer Architecture (Spring only) or COSC 3503 Operating Systems (Spring only) may be substituted for COSC 3603.
- 5: Any approved engineering course or computer science course

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5. Any approved engineering course or COSC course.

