

School of Engineering and Engineering Technology  
**ELECTRICAL & COMPUTER ENGINEERING, B.S.**  
**BIOMEDICAL ENGINEERING CONCENTRATION (ECBM)**

**2024-25**

APPROVED ELECTIVES LIST

(Version date: 5/12/2024)

**GENERAL EDUCATION and LETU THEOLOGY AND VOCATION ELECTIVES**

**Biblical Engagement Electives**

Any BIBL course numbered 2000-level or above

**Civic Engagement Electives**

Any HIST, INTL, POLS, ECON, or CRIJ

**Humanities & Fine Arts Electives (Formerly Ingenuity Electives)**

Cross-Cultural (CCLT 3203 only); Fine Arts (HUMA); Literature (All ENGL 2000-level or above courses *except* ENGL 2603, ENGL 3213, ENGL 3223, ENGL 3931, ENGL 4923, and ENGL 4933); Philosophy (PHIL); Music (MUSC); Foreign Language.

**Theological Engagement Electives**

2000-level or above BIBL; CCLT 3103 Cultural Anthropology; CCLT 3203 Religions of the World; CCLT 4103 Biblical and Strategic Paradigms for Mission; CMIN 3303 Evangelism and Discipleship; CMIN 3403 Ministry of Teaching; THEO 3063 Christian Ethics; THEO 3103 Christian Doctrine; THEO 3133 The History of Christian Thought; THEO 3203 Christian Apologetics; THEO 49X3 Special Topics classes that engage Theology and specific disciplines

**DISCIPLINE SPECIFIC ELECTIVES**

Note: All discipline specific engineering elective credits require advisor approval. Ensure that you speak to your advisor about elective credit selections BEFORE you enroll in a course!

**Math Elective**

3 hrs approved elective credit required; select one of the following MATH courses:

MATH 2303 Linear Algebra

MATH 4403 Numerical Analysis

**See other side for Technical Elective**

## Approved Technical Elective Courses for ECBM concentration

### Approved engineering course or COSC course (3 hrs required)

COSC	2103	Computer Science II
EEGR	3314	Electronics and Lab
EEGR	3523	Mechatronics
EEGR	4900 – 4993	Special Topics Course (available courses will vary by semester)
ENGR	2313	Materials Engineering
ENGR	4951	Junior Design Project I (1 hr)
ENGR	4952	Junior Design Project II (2 hrs)
MCHR	4413	Robotics

Special topics courses offered by the School of Engineering will be evaluated on a course-by-course basis as to their suitability for the Technical Elective credit. Students should discuss eligibility of the course before enrolling.

NOTE: Not all of the courses listed above are 3 credits hrs. It is up to you as the student to ensure you have at least 3hrs total credit for your technical electives.