

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

2024-25

APPROVED ELECTIVES LIST

(Version date: 5/12/2024)

GENERAL EDUCATION, 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 3453 Statistical Methods
- MATH 4233 Stochastic Processes
- MATH 4253 Operations Research
- MATH 4403 Numerical Analysis
- MATH 4513 Design and Analysis of Experiments

Catalog Requirement:

Approved engineering course or Computer Science course (3 hrs.)

See other side for Technical Electives

Approved Technical Elective Courses for ECCP concentration

Catalog Requirement:

Any approved engineering course or computer science course

Approved engineering course or Computer Science course (3 hrs required)

Any BEGR 3000+, CVGR3000+, EEGR 3000+, ENGR 3000+, MEGR3000+, MJEG 3000+ course

BEGR 3133 Bioinstrumentation

ENGR 2313 Materials Engineering

ENGR 4951 Junior Design Project I

ENGR 4952 Junior Design Project II

MEGR 2023 Dynamics

MEGR 3323 Mechanics of Materials

MEGR 3713 Thermodynamics

MJET 2023 Materials Joining Fundamentals

MJET 2021 Materials Joining Fundamentals Laboratory

Any 3000+ Computer Science (COSC) course

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

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