

Technical Electives for BSEE and BSCP Programs:

Any upper division (3xxx or 4xxx) engineering course (BIOM, CIVL, EECE, MECH), which will apply toward satisfying degree requirements in the respective degree program, may also be taken as a Technical Elective. For example, MECH 4xxx may be used as a technical elective for BSEE or BSCP programs provided that MECH 4xxx can be used to satisfy degree requirements for obtaining a BSME degree.

The courses listed below are also acceptable **technical electives** in either the BSEE or BSCP programs. **It is the student's responsibility to determine if he/she satisfies the prerequisite for a given course.** It is strongly recommended that the student speak directly to the instructor of record in the case for which the prerequisite listed in the catalog includes Permission of Instructor. Any course not listed below requires approval of the Advisor, Chair, and Dean or designee.

Also note that certain EECE electives (taken as either technical or EECE electives) preclude certain COMP classes from serving as technical electives as listed below:

MATH 3221. Elementary Number Theory.
MATH 4261. Abstract Algebra.
MATH 4361. Complex Variables.
MATH 4391. Partial Differential Equations I.
MATH 4392. Partial Differential Equations II.
MATH 4636. Introduction to Statistical Theory.

COMP 3715. Data, Information and Knowledge.
COMP 4030. Introduction to Algorithms.
COMP 4040. Programming Languages.
COMP 4041. Introduction to Compilers.
COMP 4115. Database Processing and Design. (EECE 4273 precludes credit for this course)
COMP 4242. Introduction to Computer Graphics.
COMP 4262. Programming UNIX.
COMP 4272. System Administration.
COMP 4302. Internet Applications and Java Programming. (Note: EECE 4275 or EECE 4276 precludes credit for this course)
COMP 4310. Introduction to Computer Networks. (Note: EECE 4275 or EECE 4276 precludes credit for this course)
COMP 4410. Computer Security.
COMP 4601 Models of Computation.
COMP 4740 Soft Computing.

PHYS 3010. Introduction to Modern Physics.
PHYS 3040. Biophysics.
PHYS 3051. Astrophysics I.
PHYS 4021. Applied Radiation Physics.
PHYS 4040. Medical Physics.
PHYS 4110. Nuclear Physics.

CHEM 3311. General Organic Chemistry I.
CHEM 3312. General Organic Chemistry II.