

CBEN Electives

**NOTE:** Any CHGN or CBEN 3xx course counts as the CHGN or CBEN 3xx elective listed in the Spring semester of the Junior year. However, only CBEN courses with engineering content count as the CBEN electives listed in the Senior year. Those courses include the following:

Course	Title	Credit Hours
CBEN200	Computational Methods in Chemical Engineering	3
CBEN250	Introduction to Chemical Engineering Analysis and Design	3
CBEN310	Intro to Biomedical Engineering	3
CBEN315	Introduction to Electrochemical Engineering	3
CBEN340	Cooperative Education	1-3
CBEN35x,45x,x98,x99*	Honors UG Research, Special Topics, Independent Study*	1-6
CBEN368	Introduction to Undergraduate Research	1
CBEN401	Introduction to Chemical Process Design	3
CBEN408	Natural Gas Processing	3
CBEN409	Petroleum Processes	3
CBEN415	Polymer Science and Technology	3
CBEN416	Polymer Engineering and Technology	3
CBEN420	Mathematical Methods in Chemical Engineering	3
CBEN432	Transport Phenomena in Biological Systems	3
CBEN435	Interdisciplinary Microelectronics	3
CBEN440	Molecular Perspectives in Chemical Engineering	3
CBEN460	Biochemical Process Engineering	3
CBEN461	Biochemical Process Engineering Laboratory	1
CBEN469	Fuel Cell Science and Technology	3
CBEN470	Introduction to Microfluidics	3
CBEN472	Introduction to Energy Technologies	3
CBEN480	Natural Gas Hydrates	3

\* If content has sufficient engineering basis, as determined by the CBE Department Head given project description, these courses can count as a CBEN elective.

***The following CBEN Bio-related courses DO NOT have sufficient engineering content and therefore DO NOT count towards a CBEN elective***

Course	Title	Credit Hours
CBEN110 (BIOL110)	Fundamentals of Biology I	4
CBEN303/323/120	Fundamentals of Biology II	4
CBEN304/305	Anatomy and Physiology	3
CBEN306/309	Anatomy and Physiology: Bone, Muscle, and Brain	3
CBEN311	Introduction to Neuroscience	3
CBEN320	Cell Biology and Physiology	3
CBEN321	Introduction to Genetics	4
CBEN411	Neuroscience, Memory, and Learning	3
CBEN412	Introduction to Pharmacology	3
CBEN431	Immunology	3
CBEN454	Applied Bioinformatics	3