Cognate List for Chemical Engineering:

All graduate students (M.S.E. and Ph.D.) entering without a previous graduate degree must take at least four credits (typically two courses) outside the ChE dept. Students typically take cognate courses within their research interests. These cognate courses must be in a technical area, and are usually satisfied at the graduate level, though 400 level courses can also satisfy cognate requirements. PhD students may be able to use a ChE course as a cognate course if it is cross-listed with another department. One cognate course should be taken in the fall term and one should be taken in the winter term (unless you have taken eligible courses elsewhere). The list of cognate courses that were taken by our graduate students during the past two years are listed below.

BIOINF 524 Found BIOINF
BIOLCHEM 515 Intr Biochem
BIOLCHEM 673 Kinetics&Mechanism
BIOMEDE 418 Quant Cell Biology
BIOMEDE 500 Biomd Eng Sem
BIOMEDE 504 Cell Biotech
BIOMEDE 599 Spec Topics
CDB 530 Cell Biology
CEE 501 Special Topics CEE
CEE 565 Sem Energy Tech Pol
CHE 686 Env Sustainability
CHEM 447 Phys Meth Analys
CHEM 467 Biogeochem
CHEM 507 Inorganic Chem
CHEM 511 Materials Chem
CHEM 538 Macromolecules
CHEM 571 Quantum Chemistry
CHEM 647 Mass Spectrometry
CHEM 649 Electrochemistry
EARTH 523 Micro Commun Omics
EECS 520 Solid State Physics
EECS 537 Classical Optics
EECS 598 Special Topics
ENGR 599 Spec Topics Engr
ENTR 407 Entrepreneurship Hr
ENTR 500 Intro to Innovation
ENTR 550 Interpersonal Skills
ENTR 599 Spec Topics Entr
ESENG 501 Sem Energy Tech Pol
ESENG 505 Energy Gen & Storage
ESENG 599 Energy Sys Spec Topc
IMMUNO 540 Immunology
IMMUNO 851 Special Topics
IOE 440 Operations Anlys&Mgt
IOE 466 Stat Quality Control
ISD 520 Intr to Systems Engr
MACROMOL 530 Adv Function Poly
MATH 412 Intro Mod Algebra
MATH 425 Intro Probability
MATH 463 Math Model Biol
MATH 471 Intr Num Meth
MATH 540 Math of Bio Networks
MATSCIE 517 Adv Function Poly
MATSCIE 554 Comput Methods
MATSCIE 555 Mat Energy Conv
MATSCIE 890 Colloq in Mat Sci
MECHENG 511 Solid Continua
MECHENG 517 Mech of Polymers I
MECHENG 523 Comp Fluid Dyn I
MECHENG 599 Spec Topics in M E
MICRBIOL 430 Microbial Symbiosis
MICRBIOL 540 Immunology
NERS 578 Phys Proc in Plas
NERS 590 Special Topics II
NRE 514 Env Imp Asmnt
PHARMACY 597 Regulatory Issues
PHARMSCI 508 Drug Deliv and Soln
PHARMSCI 700 Biopharm-Drug Dispos
PHARMSCI 703 Mass Transport/ChemK
PHARMSCI 717 Biopharm Eng
PHRMACOL 601 Quant Prin Pharm
PHRMACOL 612 Antimicrobial&Cancer
PHYSICS 411 Intro Comp Physic
PHYSICS 520 Condensed Matter
PUBPOL 519 Sus Energy Sys
STATS 425 Intro Probability