

CHME-CHEMICAL & MATERIALS ENGR (CHME)

CHME 101. Introduction to Chemical Engineering Calculations 2 Credits (2)

Introduction to the discipline of chemical engineering, including: an overview of the curriculum; career opportunities; units and conversions; process variables; basic data treatments; and computing techniques including computer programming and use of spreadsheets.

Prerequisite(s)/Corequisite(s): MATH 1250G.

CHME 102. Material Balances 2 Credits (2)

Perform material balances in single- and multi-phase, reacting and non-reacting systems under isothermal conditions.

Prerequisite: MATH 1250G, CHME 101.

Prerequisite/Corequisite: CHEM 1215G or CHEM 1216.

CHME 201. Energy Balances & Basic Thermodynamics 3 Credits (3)

Chemical Engineering energy balances; combined energy and material balances including those with chemical reaction, purge and recycle; thermochemistry; application to unit operations. Introduction to the first and second laws of thermodynamics and their applications. May be repeated up to 3 credits.

Prerequisite(s): CHME 102, CHEM 1216 or CHEM 1215G, and MATH 1521G or MATH 1521H.