

Bachelor of Science, Chemistry

Butler County Community College to Clarion University of Pennsylvania

TRANSFER GUIDE

This guide lists the BC3 courses in the right column that fulfill the Clarion University requirements in the left column. To transfer courses, you will need a grade of "C" or higher. The chemistry B.S. degree requires a minimum of 120 credit hours and a 2.0 QPA for degree completion.

CLARION REQUIREMENTS

General Education Requirements (48 credits)

See General Education Transfer Guide for requirements.

Chemistry Proficiencies

Credits will apply in general education.

Complete three courses in:

MATH 270 Calculus I
MATH 271 Calculus II
MATH 272 Calculus III

Complete one of the following:

Complete two courses in:

PH 251 General Physics I
PH 252 General Physics II
or

Complete four courses in:

PH 258/268 Introductory Physics Lecture I and Lab
PH 259/269 Introductory Physics Lecture II and Lab

Chemistry Major (54 credits)

Complete 22 courses in:

CHEM 141 Freshman Seminar
CHEM 151/161 Chemical Principles I and Lab
CHEM 152/162 Chemical Principles II and Lab
CHEM 251/261 Organic Chemistry I and Lab
CHEM 252/262 Organic Chemistry II and Lab
CHEM 257 Organic Spectroscopy
CHEM 270 Chemical Information
CHEM 271 Introductory Organic Chemistry
CHEM 353/363 Analytical Chemistry I and Lab
CHEM 354/364 Physical Chemistry I and Lab
CHEM 355/365 Physical Chemistry II and Lab
CHEM 358/368 Analytical Chemistry II and Lab
CHEM 456 Advanced Inorganic Chemistry
CHEM 470 Chemistry Seminar

Complete 12 hours credit in:

Biology, Computer Science, Earth Science,
Mathematics, Physics

ACS Certification Requirements

Complete six hours of advanced courses that include sufficient lab work to bring the total lab hours to 500.

BC3 EQUIVALENT COURSES

MATH 221
MATH 222
MATH 223

PHYS 101
PHYS 102

PHYS 221
PHYS 222

No BC3 equivalent
CHEM 101
CHEM 102
CHEM 221
CHEM 222
No BC3 equivalent
No BC3 equivalent
No BC3 equivalent
CHEM 230
No BC3 equivalent
No BC3 equivalent
CHEM 231
No BC3 equivalent
No BC3 equivalent

BIOL 103, 120, 121, 131, 132, 201, 203, 205, 207,
209; COMP 101, 210, 228, 230, 231, 241, 242;
ELEC 221 & 222, 225 & 240; MATH 224, 230;
METR 212; PHSC 114, 120, 123

No BC3 equivalent

Residency Requirement

A minimum of 30 of
the last 45 credits
must be taken
through Clarion
University with at
least 50 percent of
major credits taken
through Clarion.

EFFECTIVE FALL 2009

Clarion University is an affirmative action equal opportunity employer. 7/09

