Curriculum Flow Chart for the Computer Science + CHEM

Semester 1
MATH 220 or 221
General CHEM or Accelerated CHEM*^  

Semester 2
MATH 231
Cont: General CHEM or Accelerate CHEM*^  

Semester 3
Math 225
CHEM 232 or CHEM 236^  

Semester 4
Group I (see below)
CHEM 3—/ 4—**^  

Semester 5
CHEM 3—/ 4—**^  

Semester 6
CHEM 3—/ 4—**^ if needed  
CHEM 440 or CHEM 442^  

Semesters 7 and 8
CHEM 440 or CHEM 442^  
CS 421

CS 125

CS 126

CS 225

CS 233

CS 241

CS 374

CS 312

CS 100

Follow the College of Liberal Arts and Science requirements for General Education & Language.
A line from one course to another below it indicates that the first course is a prerequisite for the second.

Group I: CS 361 (recommended) or Stat 200 or STAT 212

*Choose between: General Chemistry CHEM 102 & 103& 104 & 105 or Accelerated Chemistry CHEM 202 & 203 & 204 & 205

**Must see CHEM Advisor for CHEM course selection, 12 hours needed of Advanced CHEM

^All CHEM courses have prerequisites, the course requirements can be found in Course Explorer
Curriculum Plan:  CS + CHEM, who entered Fall 2018 and after

Name: _______________________________________________________________  UIN:  _______________________________  Date:  ______________________

**General Education Requirements**
- Composition 1
- Advanced Composition
- 3hrs Western Cultures
- 3hrs Non-Western Cultures
- 3hrs US Minority Cultures (FA18 & after)
- 3hrs Humanities and the Arts
- 3hrs Humanities and the Arts
- 3hrs Social and Beh. Science
- 3hrs Social and Beh. Science
- 3hrs Natural Sciences & Technology
- 3hrs Natural Sciences & Technology
- 4th Level Language

**Computer Science Courses**
- CS 100  1hr, Freshman Orientation
- CS 125  4hrs, Intro to Computer Science
- CS 126* 3hrs, Software Design Studio  
  (Prereq CS 125)
- CS 173  3hrs, Discrete Structures  
  (CS 125 and CALC)
- CS 225  4hrs, Data Structures  
  (Prereq CS 125 and CS 173)
- CS 233  4hrs, Computer Architecture  
  (Prereq CS 125 and CS 173; CS 225)
- CS 241  4hrs, System Programming  
  (Prereq CS 225; CS 233)
- CS 374  4hrs, Algorithms and Models of Comp  
  (Prereq CS 173 and CS 225)
- CS 421  3hrs, Programming Languages and Compilers  
  (Prereq CS 233 and CS 374)

**CHEM Courses 12hrs Foundation 12hrs Advanced CHEM**

**Select General CHEM or Accelerated CHEM**
- CHEM 102 3hrs, General CHEM I & CHEM 103 1hr, 
  General CHEM Lab I^  
- CHEM 104 3hrs, General CHEM II & CHEM 105 1hr 
  General CHEM Lab II^  
  or
- CHEM 202 3hrs, Accelerated CHEM I & CHEM 203  
  2hrs, Accelerated CHEM LAB I^  
- CHEM 204 3hrs, Accelerated CHEM II & CHEM 205 
  2hrs, Accelerated CHEM Lab II^  
  &  
- CHEM 232 3/4hrs, Elementary Organic CHEM I or 
  CHEM 236 4hrs, Fundamental Organic CHEM I^  

**Math Courses**
- MATH 220 5hrs, CALC or 221 CALC I 4hrs
- MATH 231  3hrs, CALC II
- MATH 225 2hrs, Intro Matrix Theory
- CS 361 3hrs, Probability and Statistics for  
  Computer Science (preferred), STAT 
  200 or STAT 212

*Transfer students entering with CS 225 credit must take CS 242 instead of CS 126.

**Additional Notes**
Prerequisites means you should have a successful grade earned before continuing on to the next course.  
Some courses are offered fall-only or spring-only.  Be sure to plan ahead! 
Working ahead in your CS coursework does not guarantee entrance into the next CS course.

^All CHEM courses have prerequisites, the course requirements can be found in Course Explorer

**120 hours required for graduation**