Curriculum Flow Chart for the Computer Science + ASTR

Semester 1
- MATH 220 or 221
- PHYS 100
- CS 100

Semester 2
- MATH 231
- PHYS 211
- CS 126*
- CS 125
- CS 173

Semester 3
- MATH 241
- PHYS 212
- CS 225

Semester 4
- Math 225
- ASTR 210**
- CS 233
- CS 241

Semester 5
- Group I (see below)
- ASTR 3—/4—**
- CS 374
- CS 421

Semester 6
- ASTR 3—/4—**
- ASTR 3—/4—**

Semesters 7 and 8
- Group I: CS 361 (preferred) or Stat 200 or STAT 212
- * CS 242 if you already have credit for CS 225
- **ASTR 210 is HIGHLY RECOMMENDED
- **Must see programs of study or ASTR Advisor for course selection

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.
Curriculum Plan: CS + ASTR, who entered Fall 2018 and after

Name: _______________________________ UIN: _______________________________ Date: _______________________________

LAS 100

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

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3hrs Social and Beh. Science

3hrs Social and Beh. Science

3hrs Natural Sciences & Technology

3hrs Natural Sciences & Technology

4th Level Language

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.

120 hours required for graduation

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 or concurrent)

CS 241 4hrs, System Programming
  (Prereq CS 225; CS 233)

CS 374 4hrs, Algorithms and Models of Comp
  (Prereq CS 225)

CS 421 3hrs, Programming Languages and Compilers
  (Prereq CS 233 and CS 374)

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

Math Courses

MATH 220 5hrs, CALC or 221 CALC I 4hrs

MATH 231 3hrs, CALC II

MATH 241 3hrs, CALC III

MATH 225 2hrs, Intro Matrix Theory

CS 361 3hrs, Probability and Statistics for Computer Science (preferred), STAT 200 or STAT 212

Astronomy & Physic Courses

PHYS 100 2hrs, Thinking About Physics
  (if recommended by Physic Placement Exam)

PHYS 211 4hrs, Univ. Physics: Mechanics

PHYS 212 4hrs, Univ. Physics: Elec & Mag

Astronomy HIGHLY recommends

ASTR 210 3hrs, Intro to Astrophysics
  (HIGHLY RECOMMENDED)

Advanced ASTR coursework, 12hrs required

3hrs ASTR, approved list

3hrs ASTR, approved list

3hrs ASTR, approved list

3hrs ASTR, approved list