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 125

Semester 3
- MATH 241
- PHYS 212
- CS 126

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

Semester 5
- Group I (see below)
- ASTR 3—/4—**
- CS 233

Semester 6
- ASTR 3—/4—**
- CS 241
- CS 374

Semesters 7 and 8
- ASTR 3—/4—**
- CS 421

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

*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
- 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)

*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

**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