Curriculum Flow Chart for Computer Science + Astronomy

Follow the College of LAS General Education & Language Requirements.

A line from one course to another indicates that the first course is a prerequisite for the second, concurrent enrollment acceptable where there are straight arrows, curved arrows indicate courses can be taken in either order but should not be taken together.

Stat Foundations*: CS 361 (recommended), STAT 200, or STAT 212
Advanced Astronomy, 6-7hrs, choose 2: ASTR 404, 405, 406, or 414
See course explorer for course prerequisites: [https://courses.illinois.edu/](https://courses.illinois.edu/)
**CS tech must be 400-level CS above CS 403, excluding CS 421 and CS 491.
***See Astronomy advisor for course planning.
Curriculum Plan: Computer Science + ASTR Beginning Fall 2021

**General Education Requirements**
- Composition I
- Advanced Composition
- 4th Level Language (LOTE)
- 3hrs Humanities and the Arts
- 3hrs Humanities and the Arts
- 3hrs Social Behavioral Science
- 3hrs Social Behavioral Science
- 3hrs Natural Sciences & Technology*
- 3hrs Natural Sciences & Technology*

**Cultural Studies**
- Western Culture
- Non-Western Culture
- US Minority Culture

*Completed with Astronomy Foundation Courses

**Math & Stat Courses**
- MATH 220 5hrs, Calc or MATH 221 4hrs, Calc I
- MATH 231 3hrs, Calc II
- MATH 241 4hrs, Calc III
- MATH 257 3hrs, Lin Alg w/Comp Apps or MATH 225 2hrs, Into Matrix Theory
- STAT Foundations:
  - CS 361** 3hrs, STAT 200 or STAT 212

**Computer Science Courses**
- CS 100  1hr, Fresh Orientation *(Recommended)*
- CS 124 3hrs, Intro to Computer Science I
- CS 128* 3hrs, Intro to Computer Science II
- CS 173** 3hrs, Discrete Structures
- CS 222* 1hr, Software Design Lab
- CS 225** 4hrs, Data Structures
- CS 240** 3hrs, Intro to Computer Systems
- CS tech*** 3hrs, 400-level CS Elective
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  OR
- CS 233** 4hrs, Computer Architecture
- CS 241** 4hrs, Systems Programming
- CS 374** 4hrs, Algorithms & Models of Comp
- CS 421** 3hrs, Prog. Languages and Compilers

*Has prerequisites and/or co-requisite; See Course Explorer & if you have earned credit for CS 225, see a CS advisor

**Has prerequisites and/or co-requisite; See Course Explorer

***400 level above CS 403, excluding CS 421 and CS 491. These two courses must be distinct from all other courses used to fulfill program requirements or options.

It is recommended that you work in concert with your assigned academic advisor to ensure you are on track to successfully complete your degree.

**Physics Foundations**
- PHYS 211 4hrs, Univ. Physics: Mechanics (NAT)
- PHYS 212 4hrs, Univ. Physics: Elec & Mag (NAT)

**Astronomy Foundations**
- ASTR 210 3hrs, Intro to Astrophysics
- ASTR 310 3hrs, Computing in Astronomy

**Advanced Astronomy, 6-7hrs, choose 2:**
- ASTR 404 3hrs, Stellar Astrophysics
- ASTR 405 3hrs, Planetary Systems
- ASTR 406 3hrs, Galaxies and the Universe
- ASTR 414 4hrs, Astronomical Techniques

**Additional Astronomy Elective, 2-3hrs**
- ASTR 3-- or 4-- (See ASTR Advisor for approved list)

**Additional Notes**
To meet a course’s prerequisites you will need to have earned the listed prerequisite credit or be on path to earn the prerequisite credit before the course begins. 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
- 60 hours required for residency