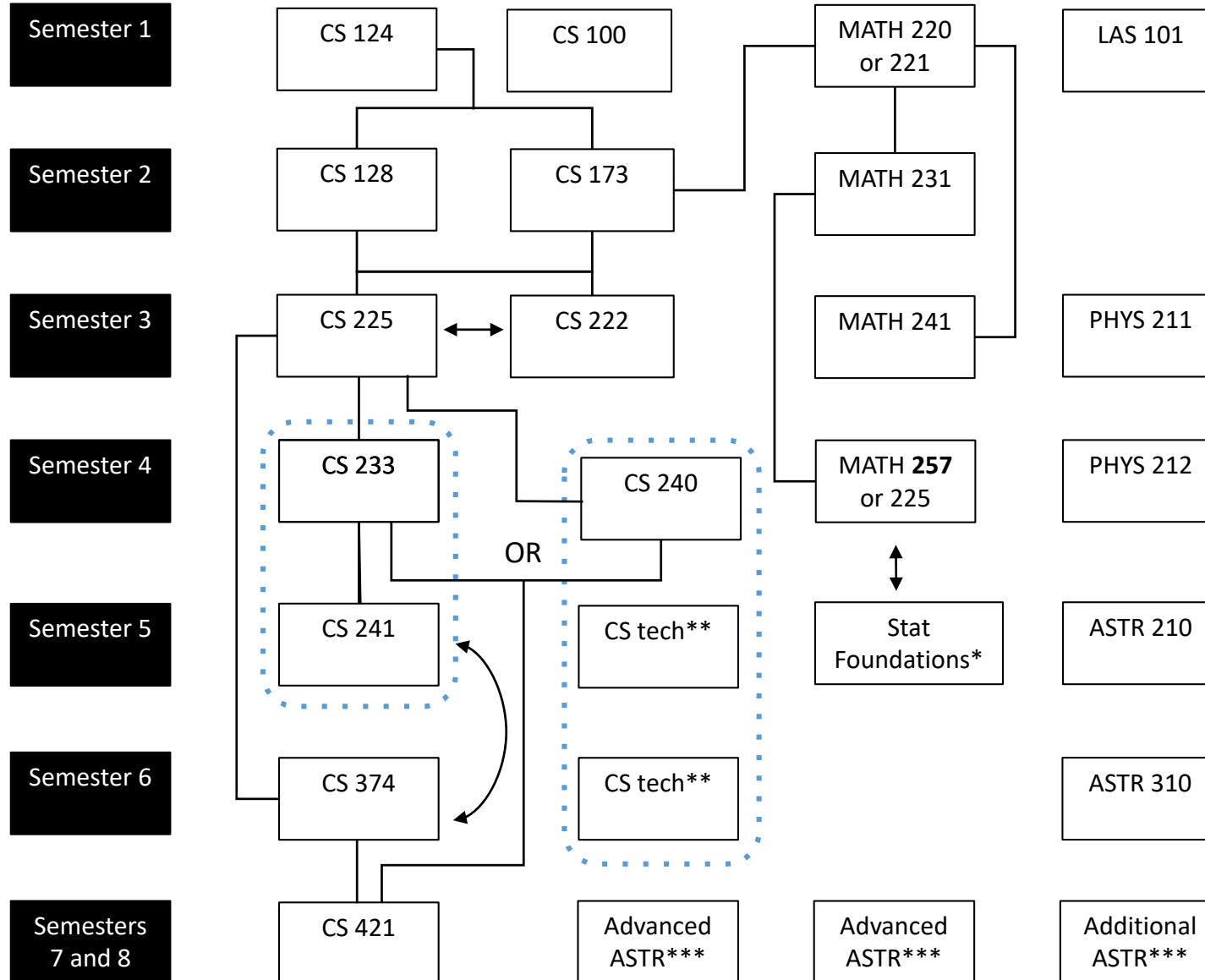


Curriculum Flow Chart for Computer Science + Astronomy



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/>

**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

____ LAS 101/LAS 102 (int. students)

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

____ CS tech*** 3hrs, 400-level CS Elective

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