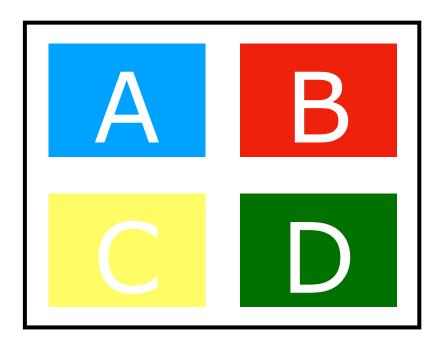


Welcome!

Be sure to grab an ABCD page by an entrance or up front



(Hint: it looks like this)

Visit/Bookmark/Write down the course webpage:

http://www.astro.utah.edu/~wik/courses/astr1060fall2019/

(Also linked to in Canvas, which we will also use)

What is the Universe?

What isn't the Universe?

Why study the Universe?

ASTR/PHYS 1060: The Universe



Consider again that dot. That's here. That's home. That's us. On it everyone you love, everyone you know, everyone you ever heard of, every human being who ever was, lived out their lives. The aggregate of our joy and suffering, thousands of confident religions, ideologies, and economic doctrines, every hunter and forager, every hero and coward, every creator and destroyer of civilization, every king and peasant, every young couple in love, every mother and father, hopeful child, inventor and explorer, every teacher of morals, every corrupt politician, every "superstar", every "supreme leader", every saint and sinner in the history of our species lived there - on a mote of dust suspended in a sunbeam.

The Earth is a very small stage in a vast cosmic arena. Think of the rivers of blood spilled by all those generals and emperors so that, in glory and triumph, they could become the momentary masters of a fraction of a dot. Think of the endless cruelties visited by the inhabitants of one corner of this pixel on the scarcely distinguishable inhabitants of some other corner, how frequent their misunderstandings, how eager they are to kill one another, how fervent their hatreds.

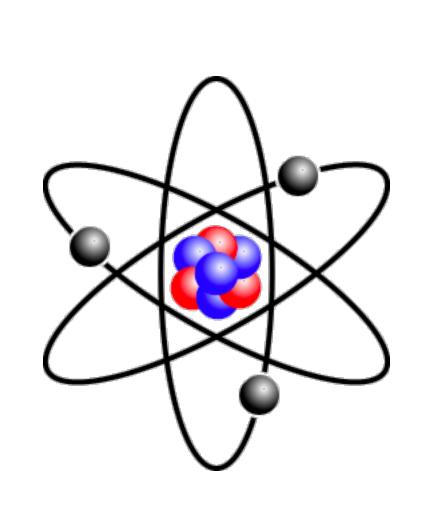
Our posturings, our imagined self-importance, the delusion that we have some privileged position in the Universe:, are challenged by this point of pale light. Our planet is a lonely speck in the great enveloping cosmic dark. In our obscurity, in all this vastness, there is no hint that help will come from elsewhere to save us from ourselves.

The Earth is the only world known so far to harbor life. There is nowhere else, at least in the near future, to which our species could migrate. Visit, yes. Settle, not yet Like it or not, for the moment the Earth is where we make our stand.

It has been said that astronomy is a humbling and character-building experience. There is perhaps no better demonstration of the folly of human conceits than this distant image of our tiny world. To me, it underscores our responsibility to deal more kindly with one another, and to preserve and cherish the pale blue dot, the only home we've ever known.

-Carl Sagan (1934-1996)

About what percentage of the Universe is composed of atoms (and particles that make up atoms) like those that make up everything in the solar system, including us?

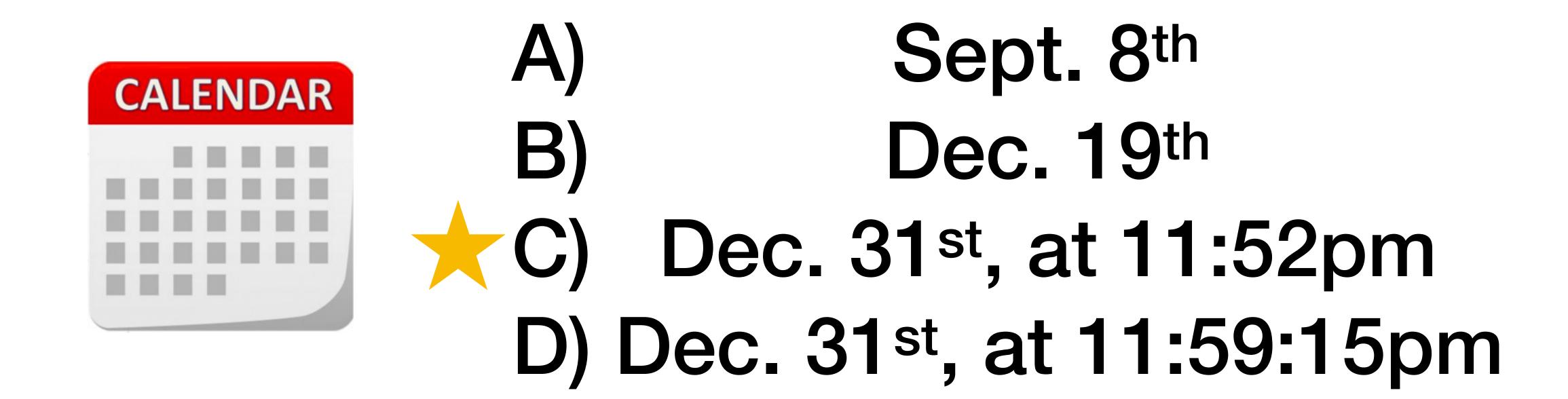


A) 100%B) 50%C) 25%

5%

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If the entire history of the Universe were crammed into 1 calendar year, when would human beings have appeared on Earth?



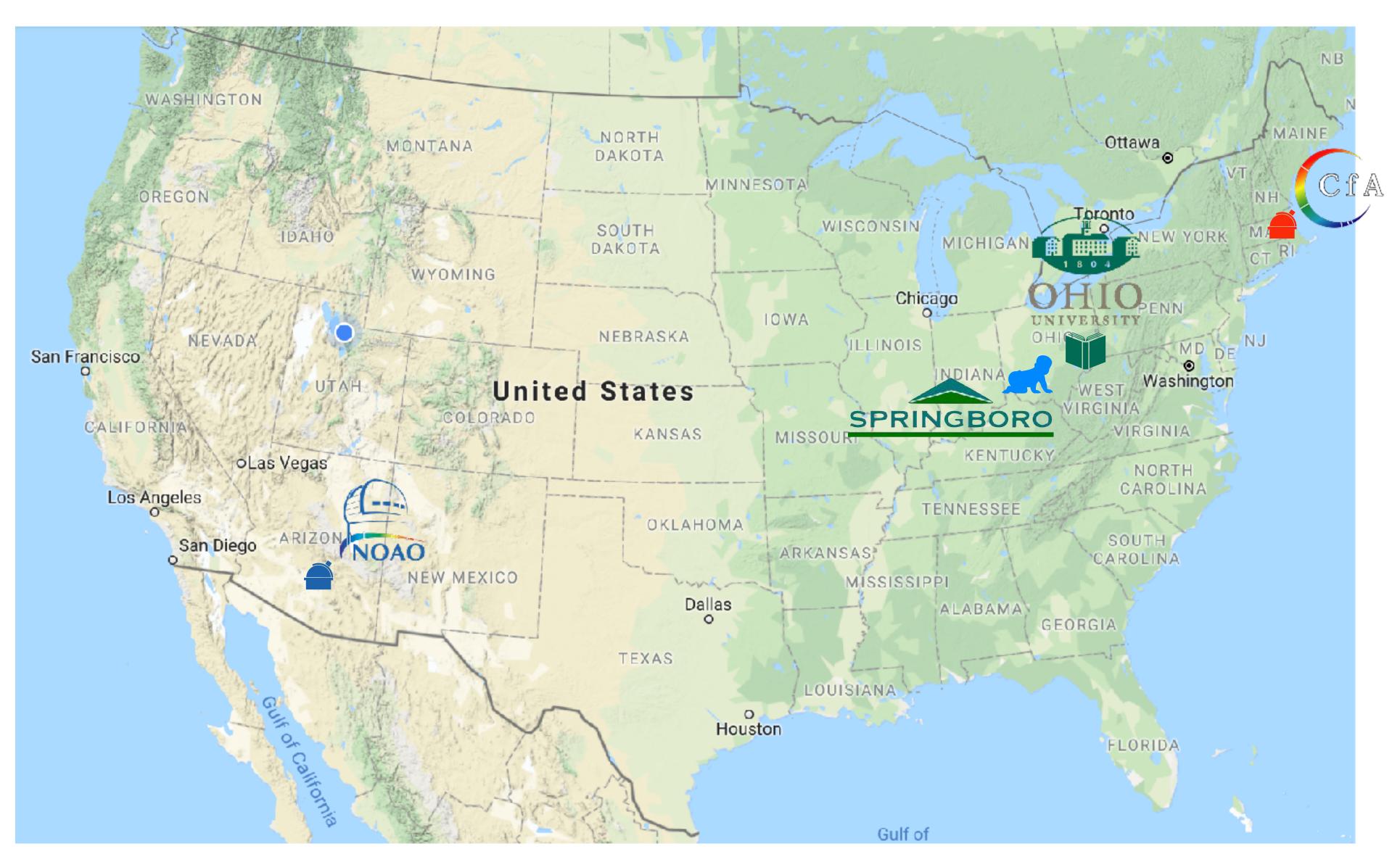
ASTR/PHYS 1060: The Universe Fall 2019: Chapter 1

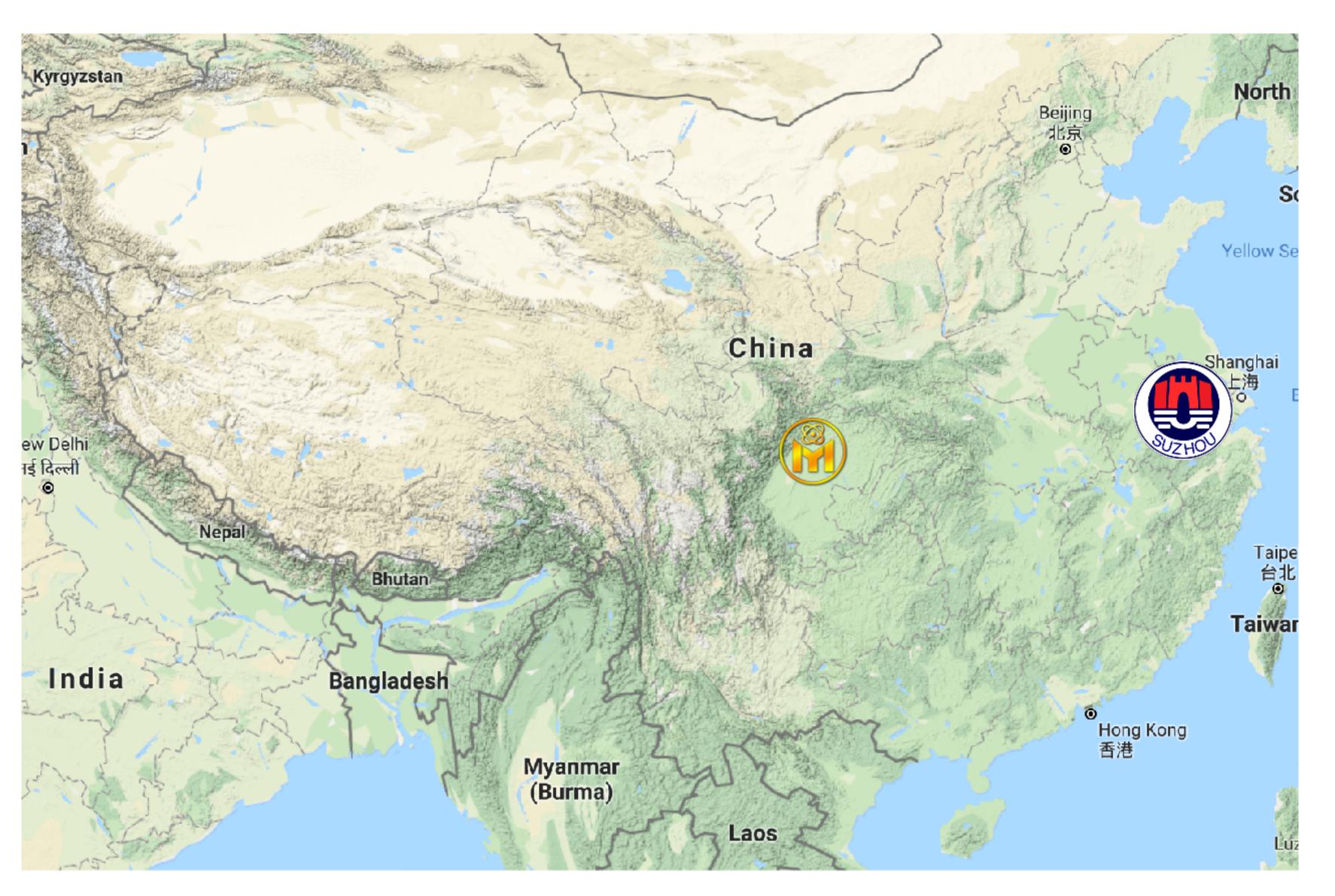


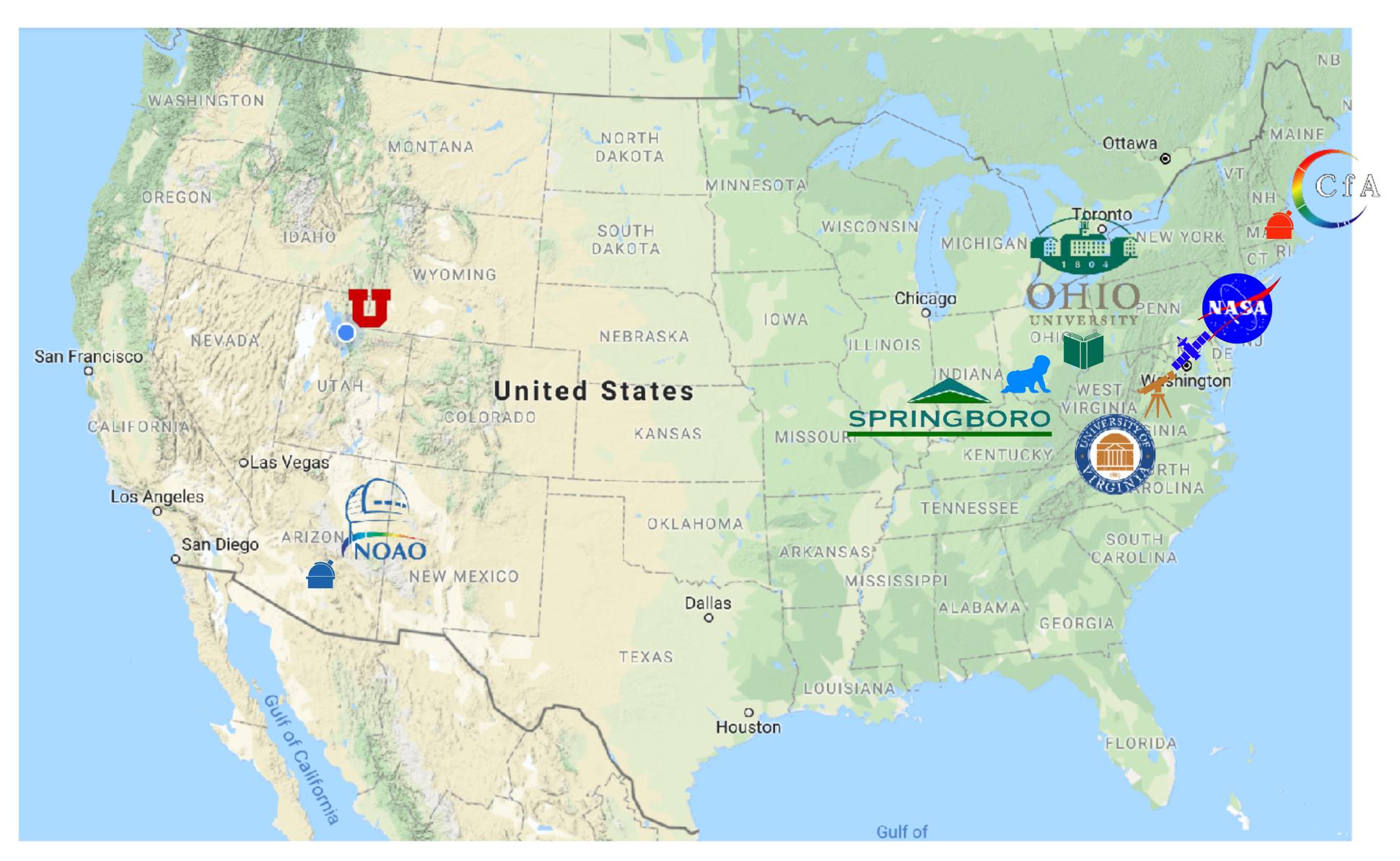




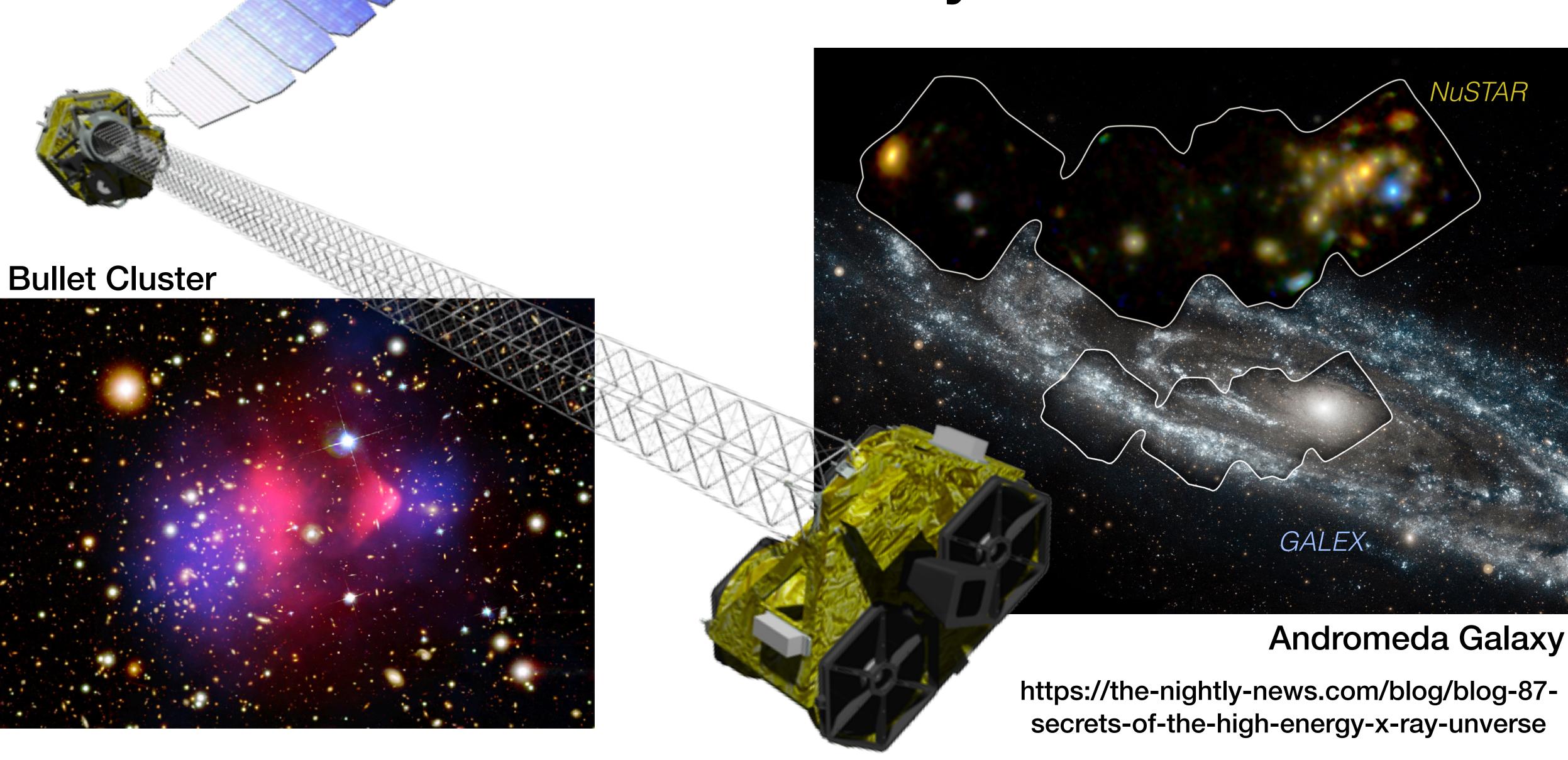
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I'm an X-ray Astronomer

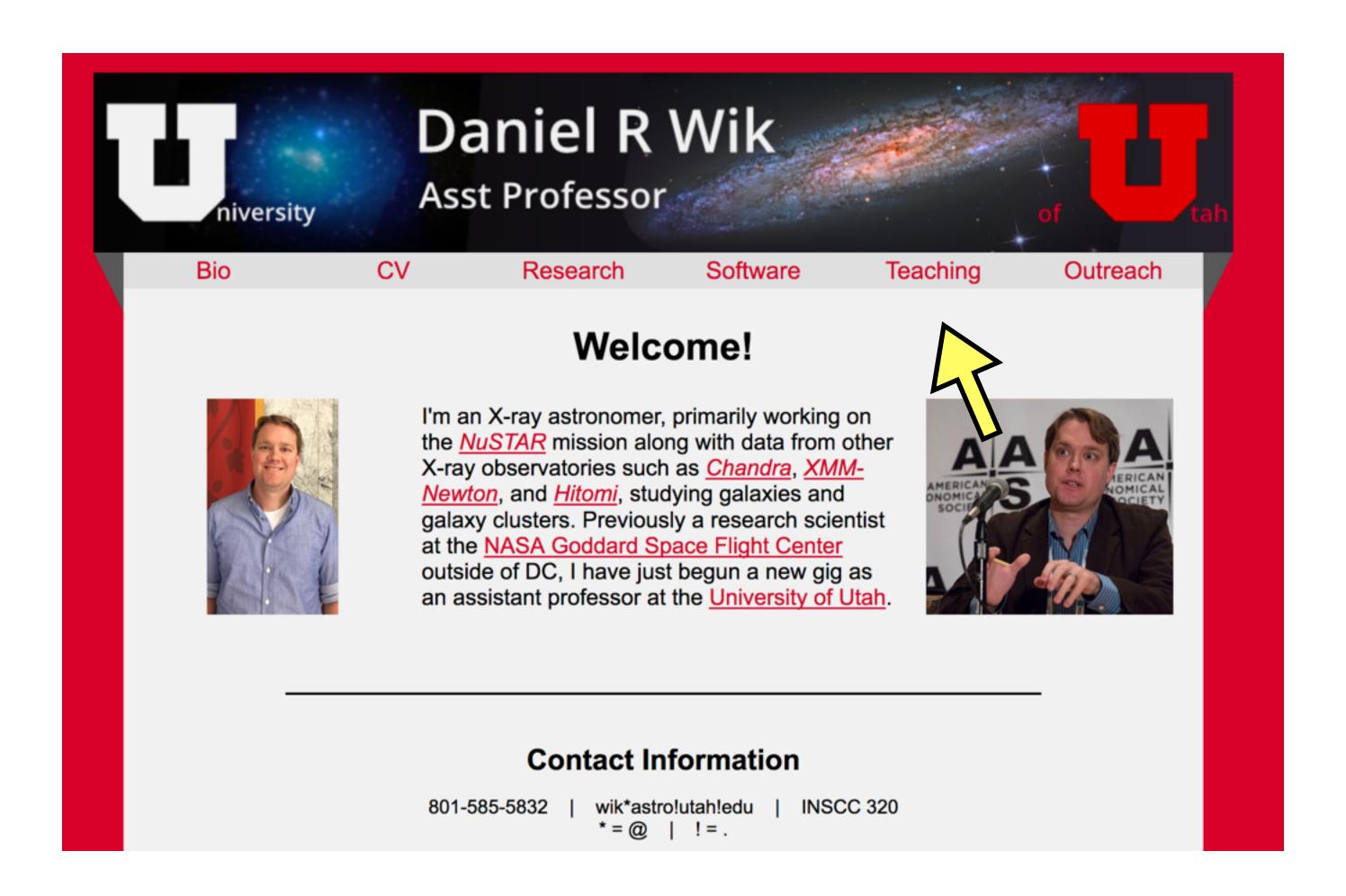


ASTR/PHYS 1060: The Universe

Fall 2019: Chapter 1

How this course will work

http://www.astro.utah.edu/~wik

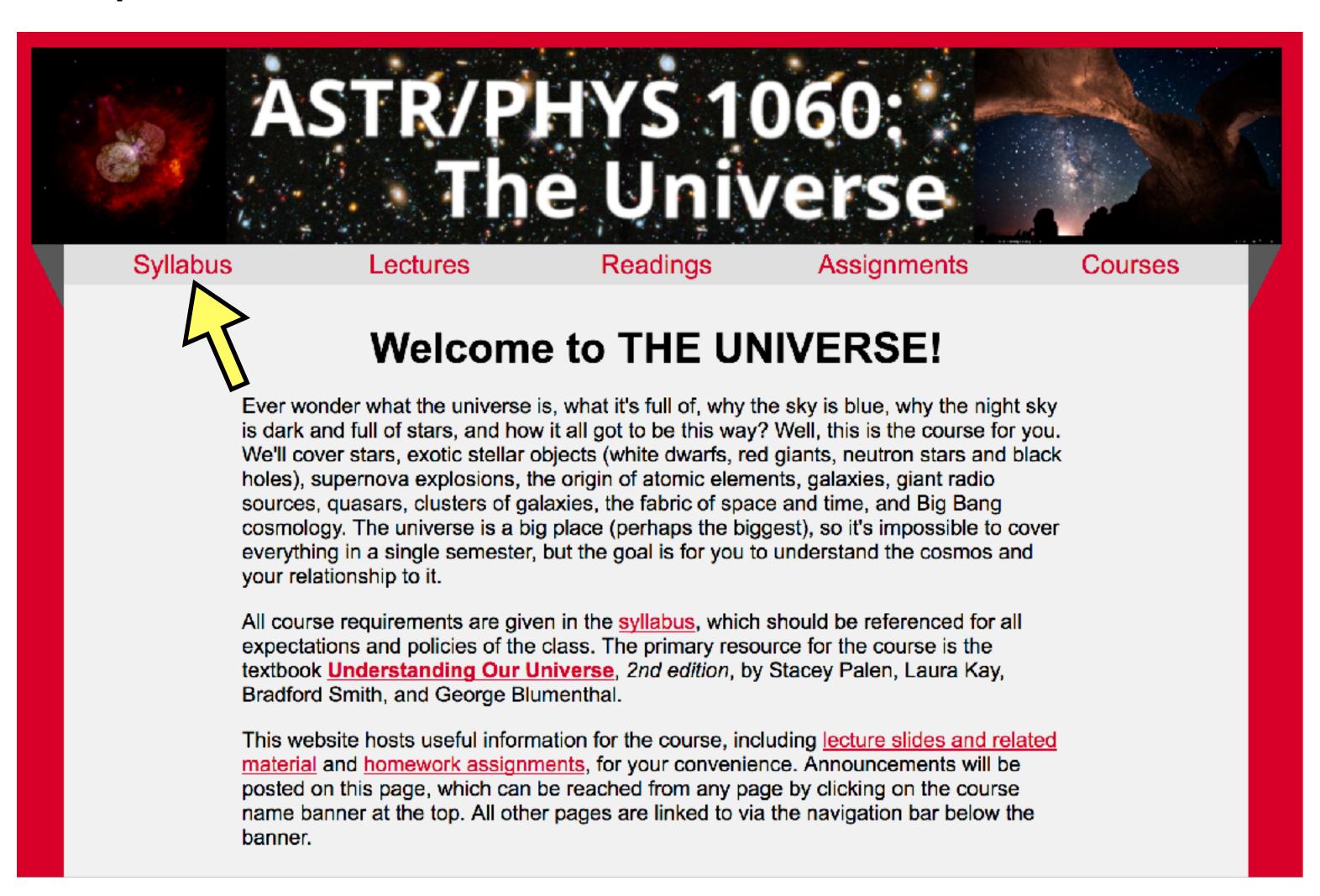


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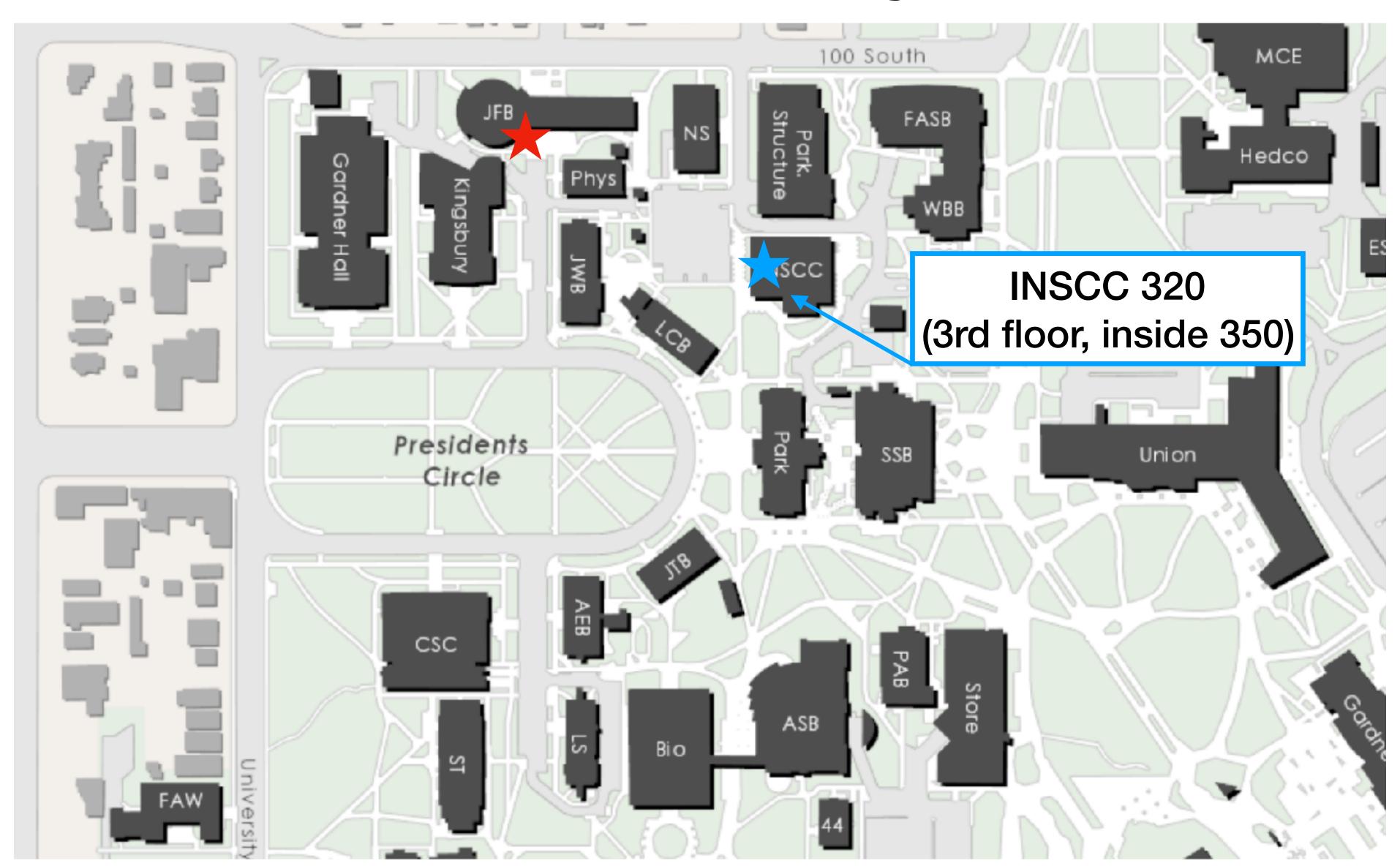
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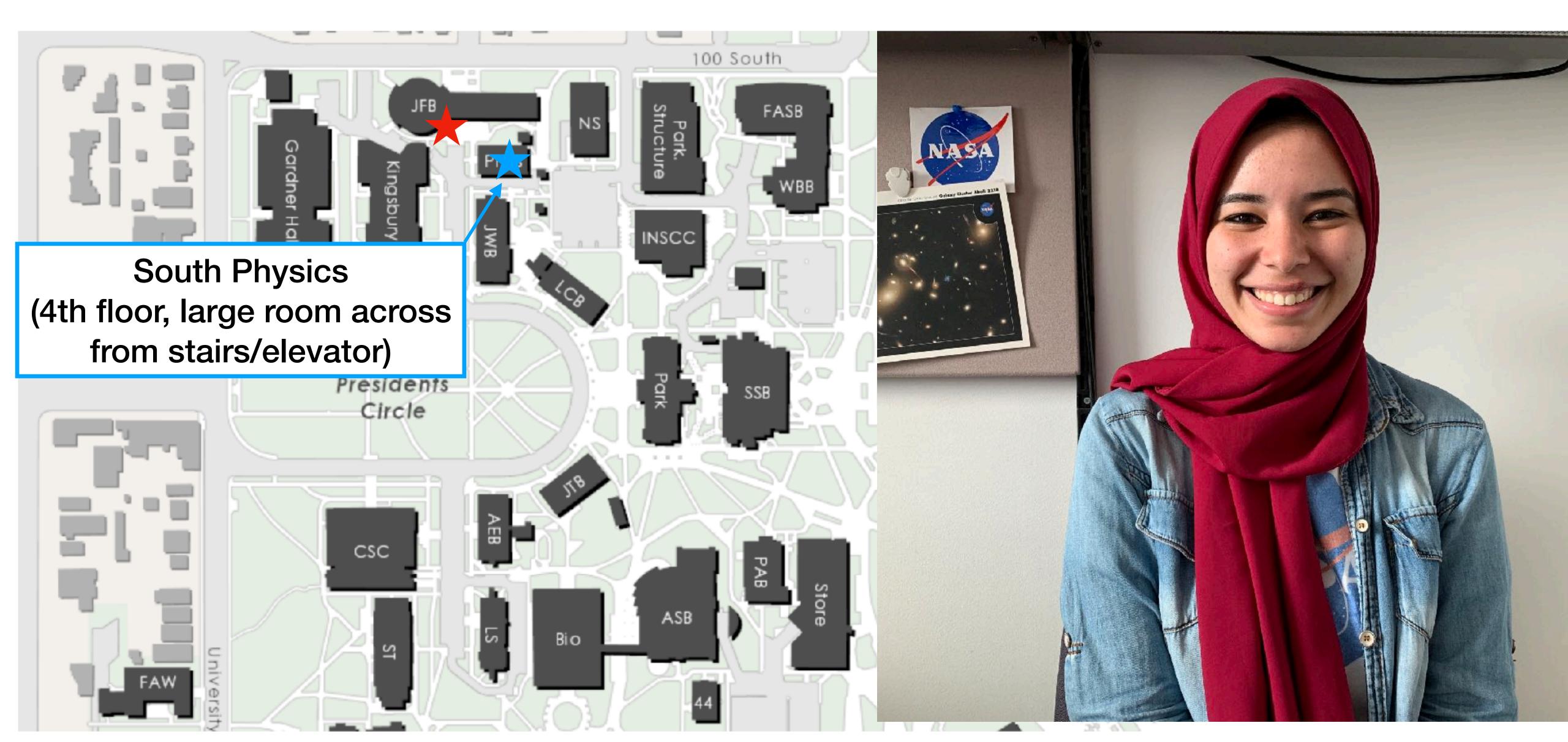
Classroom and my office



Classroom and my office



Class TA and her office



ASTR/PHYS 1060: The Universe

Fall 2019: Chapter 1

The Reading is CRUCIAL!

Intro science courses have as many new vocabulary words as an intro foreign language class!

Important Dates:

Last day to add, drop (delete), elect CR/NC, or audit classes:

Last day to withdraw from classes:

Last day to reverse CR/NC option:

Friday, August 30

Friday, October 18

Wednesday, November 27

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Silence cell phones, don't use 'em, and use laptops for note taking only

Doing other things on devices distracts those around you

Taking HAND-WRITTEN notes improves retention (whether or not you ever look at them again)

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