

AST 101 - Introduction to Astronomy

Welcome to the home page for the course
"Introduction to Astronomy" (AST 347) in Spring 2017.

Lecturer: Neelima Sehgal

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Class Times: Tuesdays and Thursdays 8:30 - 9:50am Javits Lecture Hall 101

Office Hours: Wednesdays 4:15 - 5:15pm

Teaching Assistant: Darin Mihalik darin.mihalik{at}stonybrook.edu

TA Office Hours: Tuesdays and Thursdays 12:00 - 1:00 in Physics A-129

Course grade: Clicker Questions (10%)
Clicker Quizzes (20%)
Three in-class Midterm Exams (40%)
Comprehensive Final Exam (30%)

Course Text Book: Cosmic Perspective: Stars, Galaxies & Cosmology by Bennett, Donahue, Schneider, Voit, Eighth Edition, Pearson, 2017

Course Schedule: [Detailed info for each lecture plus lecture notes posted after each class](#)

Topics to be Covered:

Perspective and Astronomy
Matter and Energy, Light and Atoms, Telescopes
Our Star the Sun
Properties of Stars, H-R Diagram, Binaries
Lives of Stars (Birth, Main Seq, Red Giants)
White Dwarfs, Neutron Stars, Black Holes
Our Milky Way Galaxy
Other Galaxies, Hubble Law
Galaxy Evolution, Quasars, Active Galaxies
Dark Matter, Large-Scale Structure
Cosmology: Creation and Fate of Universe

Class Structure:

- **Clicker Questions:** Questions will be throughout lectures. You can discuss with neighbors before answering. They improve your grade -- correct answer = 2 points, wrong answer = 1 point, no answer = 0 points.

- **Clicker Quizzes:** There will be a quiz in the last 15 min of class for 6-7 classes probing material covered during the previous few classes. Use your clickers to answer. Answer for yourself without

discussing with neighbors. They improve your grade -- correct answer = 4 points, wrong answer = 1 point, no answer = 0 points.

- **Midterm Exams:** Each of the three midterm exams will cover the previous 1/3 of the course material.
- **Final Exam:** The final exam will be on Tuesday May 9th from 11:15am-1:45pm. It will cover all the topics of the course.

Americans with Disabilities Act:

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Academic Integrity:

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>

Critical Incident Management:

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.