

AST381 (48645), GEO391 (28165), PHY394T (58370)

Computational Astrophysics

Instructor: Milos Milosavljevic, Associate Professor
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Lecture location: RLM 5.104
Lecture time: Mondays, Wednesdays, and Fridays 2 – 2:50 p.m.

Office hours: By appointment, normally available Monday – Friday.

Class overview:

Class description and academic/learning goals: This is an in-depth and hands-on introduction to computational methods used in the current astrophysical research and other related fields.

Prerequisites: Undergraduate upper-division classical mechanics, thermodynamics, and partial differential equations.

Lecture topic schedule: TBA on the Class Website.

Grading policy:

There will be no in-class exams. The final grade will be based on homework assignments (50%), the final project (30%), and class participation (20%).

Required course materials:

TBA on the Class Website. All materials will be accessible free of charge.

Final exam date and time:

A final take-home project will be assigned in the place of a final exam.

Class website:

<http://canvas.utexas.edu>

Students with Disabilities

Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 512-471-6259, ddce.utexas.edu/disability/

Academic Integrity and the University Code of Conduct

A fundamental principle for any educational institution, academic integrity is highly valued and seriously regarded at The University of Texas at Austin. More specifically, you and other students are expected to maintain absolute integrity and a high standard of individual honor in scholastic work undertaken at the University.

The University Honor Code states: “The core values of the University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the University is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community.”

Academic dishonesty includes: cheating, plagiarism, unauthorized collaboration, falsifying academic records, misrepresenting facts, multiple submissions, and any other acts or attempted acts that violate the basic standard of academic integrity.

Consequences of academic dishonesty can be severe. Grade-related penalties are routinely assessed but students can also be suspended or even permanently expelled from the University for scholastic dishonesty. Other potential consequences can be particularly far-reaching, such as the creation of a disciplinary record that may very well impact future opportunities. Furthermore, incidents of scholastic dishonesty diminish the overall value of scholastic achievements on this campus and reflect poorly on the University

Helpful resources:

Office of the Dean of Students: deanofstudents.utexas.edu/

Guide to Avoiding Plagiarism: www.utexas.edu/cola/centers/cwgs/_files/pdf-4/ai2012.pdf

Accommodations for Religious Holidays

By UT Austin policy, you must notify the professor of a pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

Emergency Procedures

In the event of an evacuation, follow the instruction of faculty or class instructors. Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated. Students requiring assistance in evacuation should inform their

instructor in writing during the first week of class. Familiarize yourself with all exit doors of each classroom and building you may occupy and remember that the nearest exit door may not be the one you used when entering the building. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.

Link to information regarding emergency evacuation routes and emergency procedures (including weather closures) can be found at: www.utexas.edu/emergency For more information, contact the Office of Campus Safety and Security at 512-471-5767 or www.utexas.edu/safety/

Behavior Concerns Advice Line (BCAL)

The Behavior Concerns Advice Line is a service that provides The University of Texas at Austin's faculty, students and staff an opportunity to discuss their concerns about another individual's behavior. This service is a partnership among the Office of the Dean of Students, the Counseling and Mental Health Center (CMHC), the Employee Assistance Program (EAP) and The University of Texas Police Department (UTPD). An individual can either call the line 512-232-5050 or report online at www.utexas.edu/safety/bcal/