

**AST 381 (PHY 394T) Syllabus  
Fall 2005**

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| <b>Course Title:</b>  | “The Formation of Galaxies and Large-Scale Structure in the Universe”  |
| <b>Course Number:</b> | AST 381 (Unique No. 48430)<br>PHY 394T (Unique No. 60955)  |
| <b>Hours:</b>         | Tu, Th 11:00 - 12:30 p.m.  |
| <b>Location:</b>      | RLM 15.216B  |
| <b>Textbooks:</b>     | Padmanabhan, T. 2002, <i>Galaxies and Cosmology</i><br>( <i>Course in Theoretical Astrophysics, Vol. III</i> ) (Cambridge Univ. Press)   |
| <b>Exams:</b>         | None   |
| <b>Homework:</b>      | (1) Problem sets will be assigned.<br>(2) One end-of-semester student lecture on a topic selected in consultation with the professor, with lecture notes handed in.  |
| <b>Grading:</b>       | Course grade will be based upon the problem sets and student talk/lecture notes.   |
| <b>Instructor:</b>    | Professor Paul R. Shapiro<br>Office: RLM 16.204<br>Phone: 471-9422<br>Email: shapiro@astro.as.utexas.edu<br>Office Hours: Tuesday, 2:00–3:00 p.m. or by appointment  |
| <b>Prerequisites:</b> | Suitable for all beginning or advanced graduate students in astronomy or physics. Previous course in cosmology not required. Students who have taken AST 396C (PHY 396T) “Elements of Cosmology” or its equivalent or plan to do so in the future will find this course a useful complement. |