**NS542 Session 4 (At-home Session) – Checklist**

____ 1. Complete the worksheets, on flowing fluids, that are posted under session 4 at [http://physics.bu.edu/~duffy/NS542.html](http://physics.bu.edu/~duffy/NS542.html). There is some reading material posted there, too.

____ 2. Complete Assignment 2 on WebAssign. ([http://www.webassign.net](http://www.webassign.net))

____ 3. Read the two assigned articles from the physics education research literature, which are posted on the wiki site. ([http://itop.pbworks.com](http://itop.pbworks.com)).


____ 4. One key application of fluid dynamics (and one of the least understood) relates to how planes fly. John Denker has a very interesting site devoted to how to fly a plane – there are links to this site on our NS542 site under Session 4. I suggest reading through at least the first half of Chapter 3 (Click on 3. Airfoils and Airflow), which discusses the connection between Bernoulli’s principle and the flight of a plane. Skimming over the rest of Chapter 3 is a good idea, too. There is also a link to some terrific animations of how air flows over a wing – even just looking at the one at the top of that opening page is worthwhile.

____ 5. Attend our on-line meeting on Monday from 8:30-9:30 pm. We will use this link for the whole course: [http://bu.na5.acrobat.com/ns542athome/](http://bu.na5.acrobat.com/ns542athome/)

At this meeting, we will focus on the Galileo reading from the first at-home session.

If you have questions about the material, or you’d like to comment on any aspect of the process, please use NS542 wiki site. We will try to monitor the discussion board and post replies in a timely manner. Please feel free to reply to other people’s questions and comments, though.

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