

**ECE 5397/6397: Introduction to Robotics**

**Spring 2016**

**Lecture 1 (email #3)**

Hi Jorge,

I’m glad you are part of the class. Today we started chapter 2 and reviewed Appendix B on vectors. It would help to look over Appendix B and 2.1--2.4 for Tuesday. Here are some updates.

* There were some typos in the day 1 &2 slides. You can see the latest slides at <https://github.com/UH-ECE6397/Class-Materials> . Just right-click on the link and download the file you desire.
* There was also an error in WS 1. (Thanks Gary O’Day): *Typo: it said sin(theta2) in the denominator? I get that for the numerator, but I found the denominator should be a1+a2\*cos(theta2), due to needing to find the length of the right triangle created by the first link, and where this vector crosses a vector perpendicular to the end effector.*

New worksheet at*:* <https://github.com/UH-ECE6397/Class-Materials>

A few things you need to do:

1. We’re watching the swarmathon webinar at 1pm Friday in the engineering large conference room. You are all invited. We have some snacks.
2. Try to implement the swarmrobot outreach code at <http://www.cs.unm.edu/~elizabeth/mars_robots.zip>. You must install NetLogo on your computer: <https://ccl.northwestern.edu/netlogo/> Make a copy of the file with \_ice in the name. Create an additional global variable **numberOfIce**. Create clusters in blue to represent ice. The singly placed yellow patches will still represent rocks. You must then change the **pcolor** tests to look for both blue and yellow patches. Create separate monitors for the ice and rocks remaining to be collected. Email this file to the TA.
3. Please give us your github username using the form at <https://docs.google.com/spreadsheets/d/1W8LPtSQ5ZDsFy-IVupfKKlGxCW7pkJsIFIsOrlqKhnQ/edit?usp=sharing>

Looking forward to working with you,



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