

**From:** Patrick Woolfenden [hockeywoolf19@hotmail.com]  
**Sent:** Monday, April 12, 2010 5:28 PM  
**To:** Thorleifson, Margaret  
**Subject:** FW: Inventor class documentation

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From: hockeywoolf19@hotmail.com  
To: smileysim560@hotmail.com  
Subject: FW: Inventor class  
Date: Tue, 6 Apr 2010 00:24:13 -0600

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From: hockeywoolf19@hotmail.com  
To: yitaek@gmail.com; charlie@justinsidethedoor.com; graccee@gmail.com; joycee.jun@gmail.com  
Subject: Inventor class  
Date: Tue, 6 Apr 2010 00:18:25 -0600

Hello everyone,

The Autodesk Inventor class will be split up into 3 sessions that are each 4 hours long plus sometime before the next two robotics meetings to start the printing and assemble the module. The end product will be a working swerve drive module. Ms. T has already ordered the parts to build the module for this class. You will need a computer with Inventor 2010 on it to participate. The class is limited to 5 people. No seniors

Inventor can be downloaded from <http://students.autodesk.com/?nd=home>

Meeting 1: 4/5/10 10am-2pm monday

Learn the basic tools used to create 3D models.  
I will walk through how to use the tools by creating the main case of the module.  
The home work will be to create another part of the module from a drawing I will give you.

Meeting 2: 4/6/10 10am-2pm tuesday

Make sure homework from the first meeting is completed.  
Learn how to use constraints by making an assembly of the swerve module.  
By the end of the day everyone has a fully constrained assembly of the swerve module.

Meeting 3: 4/7/10 10am-2pm wednesday

Learn how to make an assembly that the 3D printer will print correctly.  
Make the final CAD assembly that will be printed.  
Convert file to something the 3D printer will import.

Meeting 4: 4-12-10 2:10PM-3PM monday

Start printing module before the robotics meeting

Meeting 5: 4-17-10 2:10PM-3PM monday

assemble module before the robotics meeting

Patrick

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