

## Course schedule

The course will begin on the first Monday of each month, if the first Monday of the month is a holiday, the course will begin on Tuesday. Students must be registered two weeks prior to course start date. Students are to meet in Durham Research Center II, Room 1002.

### **Day One:**

9:00 AM – 9:30 AM	General Introduction and Welcome, Discussion of Objectives
9:30 AM – 10:00 AM	Introduction to sterile techniques
10:00 AM – 11:00AM	Introduction to hESCs, background and significance
10:45AM – 11:00 AM	Look at demo cells under microscope
11:00AM – 12:00 PM	hESCs growing protocols (feeder dependent vs feeder independent)
(11:15 – 11:30 AM)	Preparing Matrigel plates
12:00PM – 1:00 PM	Lunch
1:00PM – 1:30 PM	Thawing and plating hESCs
1:30PM – 3:30 PM	hESCs vs induced pluripotent stem cells iPSCs.

### **Day Two:**

9:00 AM – 9:30 AM	Overview of hESCs splitting Protocol
9:30 AM – 11:30AM	Selection, Maintenance and Splitting of hESCs
11:30 AM – 12:00 PM	Overview of Freezing Protocol
12:00 PM – 1:00 PM	Lunch and Q & A
1:00 PM – 3:30 PM	Differentiation of hESCs, Making embryoid bodies Freezing hESCs

### **Day Three:**

9:00 AM – 9:30 AM	Review, Answer questions,
9:30 AM – 11:30 AM	MEF Derivation Protocol
11:30 AM – 1:00 PM	Inactivation and plating of MEF, Protocol
1:00 PM – 4:00 PM	Fill out Evaluations