

## **OPTI380A**

### **Prelab Questions – Lab 9 2009**

All pre lab questions must be submitted at the beginning of each laboratory session. They are designed to prepare you for the lab so that you can finish the lab on-time. You will receive zero credit for the pre lab questions, if you come to the lab without answering the pre lab questions.

Prelab questions:

- (1) Draw a picture of the Michelson interferometer. How many mirrors are there?
- (2) What is the optical path difference (OPD) to see bright fringes? What is the optical path difference to see dark fringes?
- (3) By moving one of the mirrors of the Michelson interferometer, you will change the OPD of the interfering beam. How far do you have to move the mirror to go from bright to dark fringe?