Daily Outline for Nano Training Workshop

February 18 – 21, 2014

9am – 4pm

Day 1:

9am – Introductions

9:15am – Overview of semester-long workshop and Aurora University Credit

10am – Intro to the NLP (Demo)

10:30am – Intro to AFM (Demo)

11am – Intro to SEM (Demo)

11:30am – Intro to FM (Demo)

12pm – Lunch at cafeteria

1pm – Activity 1: NanoProfessor Lab 1: How Smooth is Smooth (also using SEM. Groups alternate between instruments).

4pm – Dismissed/Dinner Provided

Day 2:

9am – Activity 2: NanoProfessor Lab 2: Leveling the Playing Field (half class with quarter at NLP and quarter at AFM and switching)

Activity 3: Scanning samples with SEM (other half of class).

10:30am – Switch groups

12pm – Lunch at cafeteria

1pm – Activity 4: NanoProfessor Lab 3: Going With the Flow (half class)

Activity 5: NanoProfessor qNano Lab 1: Ionic Transport Through Nanopores (other half)

2:30pm – Switch groups

4pm – Dismissed
Day 3:

9am – Remote Access Introduction and Demonstration

9:30am – **Activity 6**: Remote access of AFM (Group A: 3 students at AFM, 2 at “remote” site. Midway through students should switch roles.)

**Activity 7**: Remote access of SEM (Group B: 3 students at SEM, 2 at “remote” site. Midway through students should switch roles.)

12pm – Lunch

1pm – Remote Access of AFM and SEM with groups switched.

3pm – Discussion of what has been learned so far and ideas for project development.

4pm – Dismissed

Day 4:

9am – **Activity 8**: NanoProfessor Lab 6: Molecular Detection Using DNA (half class)

**Activity 9**: NanoProfessor qNano Lab 2: Nanoparticle Concentration and Size (half class)

10:30am – Lab 6 and qNano Lab 2 with groups switched

12pm – Lunch

1pm – **Activity 10**: Remote Access of FM (3 students at FM, 2 at “remote” site)

**Activity 11**: Remote Access of qNano (3 students at qNano, 2 at “remote” site)

2pm – Remote Access with groups switched.

3pm – Wrap up and Survey/Assessment

4pm - Dismissed/Dinner Provided