CMMB 451 course learning outcomes:

At the end of this course the student will be able to:

1. Use Molecular Biology techniques (DNA isolation, Cloning, Southern, Northern and Western blots) to address questions from diverse biological systems
2. Design approaches in addressing relevant biological questions
3. Analyse and interpret data including writing experimental outcomes in a manuscript form
4. Understand and evaluate journal articles
5. Explain the principles of chromatography (affinity, ion-exchange gel filtration) and SDS-PAGE, perform protein purification and separation, and evaluate protein purification scheme through analyzing the experimental data.