**Biochem 421\_01 Thursdays and Tuesdays TENTATIVE SCHEDULE**

**mCURE: see highlighted areas of schedule**

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| **September 6 (Tu only) No laboratory but lecture will meet: to confirm registration/attendance** |
| **September 8/13 (Th/Tu)***I. Introduction to course, Basics, Safety.* Micropipetting and calculations. |
| **September 15/20***II. Modelling disease spread.* Serial dilutions/ ELISA assays. |
|  **September 22/27** ***Exam I in lecture.*** *III.* Protein visualization and modeling. |
| **September 29/Oct 4***IV. MDH -Design a mutation to affect enzyme activity*. Bioinformatics and Hypothesis generation. |
| **October 6/ October 18***V. MDH- Analysis of plasmid DNA.* Minipreps, restriction digests. |
| **October 11/13 (no lab –Holiday week)**  |
| **October 20/25*****Exam II in lecture****. VI. MDH-* Affinity purification of MDH protein (and analyze DNA gels) |
| **October 27/ November 1** *VII. MDH –Check protein purification:*  SDS PAGE  |
| **November 3/8** ***Exam III in lecture.*** *VII. MDH -Check protein purification:* Western blotting |
| **November 10/15** *IX. MDH –Characterize mutant enzymes.* Enzyme kinetics assays. |
| **November 17/ 29 (no lecture)** *X. MDH-* Discuss results:Poster presentations in lab  |
| **December 1/6** ***Exam IV in lecture.*** *XI. GMO in food:* PCR analysis. |
| **December 8/13 (no lecture)***XII. GMO in food: Powerpoint presentation on findings* |