# SCHEDULE OF EXPERIMENTS

**ALL OF THE CLASSES WILL BEGIN WITH AN INTRODUCTION INTO THE EXPERIMENTAL DESIGN AND UNDERLYING HYPOTHESES**



**JAN 5, 2011 FIRST DAY OF CLASS**

A. COURSE OVERVIEW
B. SAFETY LECTURE/VIDEO
C. ANIMAL CARE LECTURE
D. DETERMINE LAB GROUPS AND CHECK OUT EQUIPMENT

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**JAN 7, 2011**



**JAN 12, 2011**

HANDOUT

**ANALYSIS OF MURINE LYMPHOCYTE POPULATIONS**

A. INTRODUCTION TO LYMPHOCYTE BIOLOGY
B. REMOVE THYMUS, SPLEEN AND BONE MARROW
C. ISOLATE LYMPHOCYTE POPULATIONS

# SCHEDULE OF EXPERIMENTS

**JAN 14, 2011** HANDOUT

A. PREPARE THYMOCYTE POPULATIONS FROM ANALYSIS BY FLOW CYTOMETRY

**JAN 19, 2011** HANDOUT

THYMOCYTE POPULATIONS AND LIFE SPAN
ANALYZE THYMOCYTES BY FLOW CYTOMETRY.

**JAN 21, 2011** HANDOUT

A. INTRODUCTION TO CELL LIFE AND CELL DEATH
B. IN VITRO LIFESPAN OF THYMOCYTES

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**JAN 26, 2011**

A. INTRODUCTION TO BIOLUMINESCENCE 35
B. COURSE OBJECTIVES 37
C. PART 1 ISOLATION OF CHROMOSOMAL DNA FROM *VIBRIO FISCHERI* 40

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**JAN 28, 2011**

A. PART 2: ISOLATION OF CHROMOSOMAL DNA FROM *VIBRIO FISCHERI* 45

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**FEB 2, 2011**

A. SPECTROPHOTOMETRIC ANALYSIS OF *VIBRIO* DNA 47
B. *SAL* I RESTRICTION DIGESTION OF *VIBRIO FISCHERI*

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**FEB 4, 2011**



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**FEB 9, 2011**



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**FEB 11, 2011**



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**FEB 16, 2011**

# SCHEDULE OF EXPERIMENTS

**FEB 18, 2011**



**FEB 23, 2011**



**FEB 25, 2011**



**MAR 2, 2011**

LIGATION 108

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**MAR 4, 2011**

A. MAKING COMPETENT DH5α CELLS 115

B. TRANSFORMATION OF LIGATION PRODUCTS INTO DH5α CELLS 116

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**MAR 9, 2011**

A. SCREENING FOR CLONES CONTAINING *LUX*AB BY ADDING EXOGENOUS ALDEHYDE 119

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**MAR 11, 2011**

FINAL EXAMINATION