

# SJU Bio 1022/25 GENETICS LAB Course Schedule - Spring 2008

**Note: If any lab is cancelled as a snow day, you need to find out what must be completed the first day classes are back in session. Plants, flies, and bacteria don't stop growing for snow days!**

<b>Dates</b>	<b>In lab this week:</b>	<b>Due* this week:</b>
Jan. 14-18 MONDAY - FRIDAY	Choose teams / Rules & Course Expectations Lab 1a: Mitosis Lab 2a: plant F2 seeds	(Turn in worksheet at end of class)
Jan. 21-22 M, Tu	<i>No Lab Monday or Tuesday, Wed starts new cycle</i>	<i>Be sure to check on plants Tues or Wed</i>
Jan. 23-25,28,29 WED-FRI, MON,TUE	Lab 1b: Mitosis & Meiosis Lab 2: W-F: 1 week obs / <b>M &amp; T: 2 week count</b> Lab 3a: Examine fly mutants, learn tech, pick mutants	(Turn in worksheet at end of class)
Jan 30-Feb 1, 4, 5 WED-FRI, MON,TUE	Lab 2b: Plant F2 generations - corn seed analysis & $\chi^2$ Lab 2c: <b>W-F: 2 week count / M &amp; T: 3 wk update</b> <i>Use 1 wk count tobacco / 2 week counts (others) for lab report unless instructed otherwise by your teacher</i>	(in class: blue , yellow & green worksheets) Turn in Green sheet as assigned by instructor if not done in lab
Feb. 6-8, 11, 12♥ WED-FRI, MON,TUE	Lab 2c: 3 week updates/observations Visiting researcher talks about <i>Drosophila</i> Lab 3b: Drosophila Crosses: wild x mutant PxP reciprocal crosses	Plant report draft check ♥ A teammate must clear fly vials between 7:30 and 9 am prior to your lab this week.
Feb. 13-15, 18,19 WED-FRI, MON,TU	Lab 3c: Clear PxP vials <b>LAB PRACTICAL I</b> on Labs 1 & 2 (M&M, plant/corn F2)	<b>#2 Plant F2 lab report due</b>
Feb. 20-22, 25, 26 WED-FRI, MON,TU	Lab 3d: Drosophila F1 counts, set up F1 x F1 crosses F1 predictions quiz <b>Continue counting F1 until break!! Post counts!</b>	fly F1 predictions worked in notebk, quiz today
Feb 27-29 WED-FR BEFORE BK March 10, 11 MON, TU AFTER BK	Wed, Th, Fri labs – Lab 3e clear F1 from F1xF1 vial <b>Each student meets with instructor for oral quiz today</b> Library sessions on searching for articles (times posted) and/or Double Helix film with remaining lab time (TBA)	fly prelim analysis & F2 predictions worked in notebk, be ready to explain
March 3-7	<i>Spring Break</i> - Lab 3e (clear F1 parents) Dr. R will clear F1 from F1xF1 vials for Monday & Tuesday labs.	Feb 29 = end of quarter
Mar 12-14, 17,18 WED-FRI, MON,TU	Lab 3f: count F2 offspring <i>listen for lab start time this wk</i> T=21 day, you should have hundreds. Count at least 100 flies for each cross. Confirm phenotypes and compare to your predictions. Triple-check gender/phenotype that appears in any unpredicted category!!	Fly lab report draft check (F1 sections can be done now)
Mar 20-21, 24	No lab Holy Thursday, Good Friday, Easter Monday Wedn evening meets for lecture	
Mar 25-28, 31 TUES-FRI, MON	Lab 4a: Aseptic Techniques Teacher will introduce our conjugation exp	Count colonies in 1-2 days You should be finishing fly report, running F2 chi squares
Apr 1-4, 7 TUES-FRI, MON	Lab 4b: Bacterial Conjugation Teacher will explain calculations	<b>#3 Drosophila Lab report</b> Count colonies in 1-2 days
Apr 8-11, 14 TUES-FRI, MON	Lab 4c: DNA Plasmid Isolation Lab 4d: DNA Gel Electrophoresis Gel will run until evening, stained overnight Be sure to pick up gel results in 1-2 days.	Bacterial problems homework  <i>Mon lab has draft check</i>
Apr 15-18 TUES-FRI	Genetics Jeopardy Competition ( <i>Review for practical</i> ) in Tues 2pm, Thurs 2:30, Friday 2 pm la sections Students from Mon are invited to Tu, Th, or Fri games	Bacterial lab draft check
Apr 21-25 MONDAY - FRIDAY	<b>LAB PRACTICAL II</b> on Labs 3 and 4 (flies, bacteria) Notes: Last lab meeting, there is no "lab" final exam. Last day any late reports can be accepted is April 30 (late penalties apply)	<b>#4 Bacterial Conjugation Lab Report</b> (report includes gel standard curve)

**\*Reports, predictions, drafts, homeworks are due at the start of your regular lab section.**

**GENETICS LAB course schedule grid by lab up to break Spring 2008**

<u>Week of:</u>	<u>Lab 1</u>	<u>Lab 2</u> <u>Plant F2</u>	<u>Lab 3</u> <u>Drosophila</u>	<u>Lab 4</u> <u>Bacteria</u>	<u>Events</u>
Jan. 14-18 MONDAY - FRIDAY	1a: Mitosis	2a plant seeds			
Jan. 23-25,28,29 WED-FRI, MON,TUE	1b: Mitosis & Meiosis	1 week observations (or 2 week counts)	3a observe flies learn sexing		
Jan 30-Feb 1, 4, 5 WED-FRI, MON,TUE		2b: corn F2 kernel analysis (3 wkshts)  2c: 2 or 3 week counts			
Feb. 6-8, 11, 12♥ WED-FRI, MON,TUE		2c: 3 week observations  due: report draft check	Come in and clear fly vials in the morning before your lab  Visiting researcher talks about <i>Drosophila</i>  3b: set up reciprocal crosses (PxP mutant x wild)		
Feb. 13-15, 18,19 WED-FRI, MON,TU	<i>Covered on practical</i>	<b>Due: Plant F2 lab report</b>  <i>Covered on practical</i>	3c: Clear PxP vials		<b>Practical I (labs 1 &amp; 2)</b>
Feb. 20-22, 25, 26 WED-FRI, MON,TU			3d: Drosophila F1 counts, set up F1 x F1 crosses  due: F1 predictions (quiz)		
Feb 27-29 WED-FR BEFORE BK			3e ( clear F1 parents)  Wed- Fri: Prelim analysis F2 predictions due (oral quiz)		
Spring Break March 3-7			Dr. R clears for Mon & Tues		

**GENETICS LAB course schedule grid by lab after break Spring 2008**

<u>Week of:</u>	<u>Lab 1</u>	<u>Lab 2</u> <u>Plant F2</u>	<u>Lab 3</u> <u>Drosophila</u>	<u>Lab 4</u> <u>Bacteria</u>	<u>Events</u>
March 10, 11 MON, TU AFTER BK			Mon & Tues Prelim analysis /F2 predictions due (oral quiz)		
Mar 12-14, 17,18 WED-FRI, MON,TU			3f: count F2 offspring  Fly lab draft chk ( F1 parts)		
Mar 20-21, 24					Easter No lab Thur-Mon
Mar 25-28, 31 TUES-FRI, MON				4a: Aseptic Techniques	
Apr 1-4, 7 TUES-FRI, MON			<b>Due:</b> <i>Drosophila</i> F1 & F2 Lab Report	<b>4b:</b> <b>Bacterial Conjugation</b>	
Apr 8-11, 14 TUES-FRI, MON				Lab 4c: DNA Plasmid Isolation 4d: DNA Gel Due: Bacterial problems	
Apr 15-18 TUES-FRI					<b><i>Genetics Jeopardy</i></b> <i>Monday invited to any of the games</i>
Apr 21-25 MONDAY - FRIDAY				Due: <b>Bacterial Conjugation</b> Lab Report Includes gel standard curve  <i>Covered on practical</i>	<b>Practical II</b> <b>(labs 3 &amp;4)</b>