

**BIO 6356: EUKARYOTIC MOLECULAR & CELL BIOLOGY**  
*The University of Texas at Dallas*  
**Fall, 2015**

**TEXT:** Lodish *et al.*, ***Molecular Cell Biology***, Seventh Edition, 2013 (ISBN 13: 978-1-4292-3413-9)

Or: Sixth Edition, 2008 (ISBN 0-7167-7601-4)

**CLASS HOURS:** Tuesday and Thursday, 10:00 -11:15 am, **FN 2.102 (Polykarp Kush Auditorium)**

**Dr. Uma Srikanth:**    *Office:* FN3.114  
                              *Phone:* 972-883-6570

*Hours:* Wednesday 10:30 – 11:30 AM

*Email:* [ukrish@utdallas.edu](mailto:ukrish@utdallas.edu)

**Dr. John Burr**        *Office:*  
                              *Phone:*

*Email :* [burr@utdallas.edu](mailto:burr@utdallas.edu)

*Hours:*

**Course Materials**

**Dr. Srikanth's** course material and grades will be posted on **eLearning**.

**Dr. Burr** does **not** use eLearning; his course information and grades will instead be posted at:

<http://www.utdallas.edu/~burr/BIO3302>

**Grading Policy**

The course grade will be based on the average score in four exams given in the course and a short research paper on a topic related to cell biology. Papers (8-15 pages) will be submitted to Dr. Burr as an email Word document attachment no later than Dec 1, 2015. (The paper is graded Pass/Fail.) **BIOL 6356 students are not required to turn in homeworks or attend workshops. If you would like to attend workshops, then here is the list of workshop times and days.**

**TAs for workshops (BIO 3102)<sup>1</sup>:**

Section #	Time/Location	TA
3102-005	Fri 1:00- 1:50pm/ FO3.222	Steven Mao
3102-006	Fri 1:00- 1:50pm/ FN2.106	Michael Neugent
3102-007	Mon 1:00- 1:50pm/ FN2.106	Michael Lee, Jr.
3102-008	Mon 1:00- 1:50pm/ FO3.222	Luke Joyce
3102-009	Wed 1:00- 1:50pm/ FO3.616	Mehran Golkarparvin

**Graduate TAs' for the course :** Chad Smith, Sagar Sohoni, Luke Joyce, Michael Neugent and Amelie Skopp

## SCHEDULE OF LECTURES

BIO 3302, Fall 2015

Dates	Session	Instructor	Topics	Reading
Tue, Aug 25	1	Srikanth	Introduction & Culturing Cells	Chapter 9
Thur, Aug 27	2	Srikanth	Cell Biology Techniques	Chapter 9
Tue, Sept 1	3	Srikanth	Cell Biology Techniques	Chapter 9
Thur, Sept 3	4	Srikanth	Biomembrane Structure	Chapter 10
Tue, Sept 8	5	Srikanth	Biomembrane Structure	Chapter 10
Thur, Sept 10	6	Srikanth	Transport of Ions and Small Molecules	Chapter 11
Tue, Sept 15	7	Srikanth	Transport of Ions and Small Molecules	Chapter 11
<b>Thur, Sept 17</b>	<b>8</b>	<b>Srikanth</b>	<b>EXAM 1 (Chapters parts of 9, 10, and 11)</b>	
Tue, Sept 22	9	Srikanth	General Principles of Cell Signaling	Chapter 15
Thur, Sept 24	10	Srikanth	G protein coupled Signaling	Chapter 15
Tue, Sept 29 Thur, Oct 1	11,12	Srikanth	G protein coupled Signaling & Signaling pathways that control Gene Expression	Chapters 15 & 16
Tue, Oct 6 Thur, Oct 8	13,14	Srikanth	Signaling pathways that control Gene Expression and Review	Chapter 16
Tue, Oct 13	1	Pan	Protein targeting	Chapter 13
<b>Thur Oct 15</b>	<b>15</b>	<b>Srikanth</b>	<b>EXAM 2 (Chapters 15, 16)</b>	
Tue, Oct 20	2	Pan	Protein targeting	Chapter 13
Thur, Oct 22	3	Pan	Protein targeting	Chapter 13
Tue, Oct 27	4	Pan	Vesicular trafficking	Chapter 14
Thur, Oct 29	5	Pan	Vesicular trafficking	Chapter 14
Tue, Nov 3	6	Pan	Vesicular trafficking	Chapter 14
Thur, Nov 5	7	Pan	Actin	Chapter 17
<b>Tue, Nov 10</b>	<b>8</b>	<b>Pan</b>	<b>EXAM 3 (Chapters 13, 14, and 17)</b>	
Thur, Nov 12	9	Pan	Actin	Chapter 17
Tue, Nov 17	10	Pan	Microtubules	Chapter 18
Thur, Nov 19	11	Pan	Microtubules	Chapter 18
Tue, Nov 24			<b>Fall break</b>	
Thur, Nov 26			<b>Fall break</b>	
Tue, Dec 1	12	Pan	Cell cycle	Chapter 19
Thur, Dec 3	13	Pan	Cell cycle	Chapter 19
<b>Tue, Dec 8</b>	<b>14</b>	<b>Pan</b>	<b>EXAM 4 (Chapters 17, 18, 19)</b>	