- *Bisc 101 Fall 2008*
- *TUE, THU 9:30-10:20 C9001*
- ***Name: Dr. Eirikur Palsson***
- ***Office: B8267***
- ***http://www.sfu.ca/~epalsson/***

- ***Lab Instructor :*** Ivona Mladenovic, Nanne Tirajoh
  - ***Office: B9236***
- *My research is in Mathematical Biology*
  - *I work on cell signaling and cell motility.*
- *Website is:* http://webct.sfu.ca/webct and go to Bisc 101

- *Textbook: Biology, Campbell & Reece 8th edition (7th edition is ok)*

- **Examinations and grading:** Midterm - 20%, Lab Midterm – 17.5%, Lab Final – 17.5%, Final - 40% Weekly Tutorial questions 5%. Then there is a 5% penalty for missing to many tutorials.

BISC 101

- This course covers:
  - Cells: their function and reproduction.
  - The structure and function of plants and animals.
- This is a lot of material so you need to study from day 1.
- In my lectures I will cover the most important things.
  - Take Notes! Write down what I say if you think it is important
  - Focus your readings on what I cover in lecture
- You will have to read on your own to get more of the details. The assigned readings are found in the **Bio101-08courseplan** in the **Lectures and lecture readings** folder.
- Study the quizzes at the end of every chapter. It will tell you if you understand the material.
- My goal is to teach understanding not memorization.
- To begin with, skim over chapter 1 as an overview. You should know what's in chapter 2-5. If not you need to read on your own.

Bisc 101 Fall '08 Course lecture outline

		Topic	8th edition	7th edition
Sept	2	Introduction Review of biological Molecules	Ch 1, Ch2-5	Ch 1, Ch2-5
Sept	4	Cells and Cell Membrane Structure and Function	Ch 6,7	Ch 6,7
Sept	9	Cell Signaling and Communication. Cell Cycle	Ch 11	Ch 11
Sept	11	Cell Cycle, Mitosis	Ch 12	Ch 12
Sept	16	DNA, DNA replication, Inheritance	Ch 16,17	Ch 16,17
Sept	18	Transcription and protein translation	Ch 17,20	Ch 17,20
Sept	23	Transcription and protein translation/ Metabolism	Ch 8,17	Ch 8,17
Sept	25	Enzymes, Cellular Respiration	Ch 8,9	Ch 8,9
Sept	31	Cellular Respiration/Photosynthesis.	Ch 9,10	Ch 9,10
Oct	2	Photosynthesis, Calvin Cycle, photorespiration C3 vs C4	Ch 10	Ch 10
Oct	7	Mid term		
Oct	9	Introduction to plants, structure	Ch 35,36	Ch 35,36
Oct	14	Plant nutrition and transport system	Ch 36,37	Ch 36,37
Oct	16	Plant reproduction and transport	Ch 38	Ch 38
Oct	21	Plant reproduction, hormones.	Ch 39	Ch 39
Oct	23	Introduction to animals	Ch 40	Ch 40
Oct	28	Animal Nutrition and digestion	Ch 41	Ch 41
Oct	30	Absorption and elimination	Ch 41	Ch 41
Nov	4	Circulation and respiration	Ch 42	Ch 42
Nov	6	Circulation and respiration	Ch 42	Ch 42
Nov	11	Blood flow and gas exchange in different animals	Ch 42, 44	Ch 42, 44
Nov	13	Homeostasis, regulation of the internal environment	Ch 44	Ch 44
Nov	18	Osmoregulation, thermoregulation, excretory system.	Ch 44,45	Ch 44,45
Nov	20	Internal Signaling	Ch 45,11	Ch 45,11
Nov	25	Nervous system	Ch 48	Ch 48 to p1028
Nov	27	Muscles and sensory system	Ch 50 p1105-	Ch 49 p1063-

Lecture

- *My lectures will be PowerPoint slides.*
  - *I may use the overhead projector occasionally.*
- *The Power Point lectures are posted on the WebCT website for Bisc 101*
  - In the **Lectures and lecture readings** folder.
    - *Some lecture notes or reviews may also be posted*

- *You should read the assigned reading before class and view the PowerPoint slides*
- *The PowerPoint slides are to be used as guides to help you remember what I covered in class.*
- ***Note:*** *It is not sufficient to just read the power point presentations or lecture notes to do well in the course, you must also read the text book and study the figures.*

Each week there will be questions posted that will be covered in the tutorials.

–These are found in the Weekly questions folder on the WebCT

The TA will have the answers for those those questions in the tutorials.

Questions!

- Why are you taking BISC 101?

- A) Because I want to continue in biology
- B) I want to be a science major
- C) To fulfill my science requirement
- D) I don't know
- E) Other reasons

- Coming to university will be a shock for most of you. You can sort of coast through high school, but you can't get away with that at the university level.
- Ruth from the Student Learning commons will give a short presentation
  - Her presentation will be posted on the WebCt in the Survival kit for first year students folder.
- For Bisc 101 the grading is curved, with a **C average**.

- In high school it was mostly memorization, here we expect you to **understand** the subject and use **critical thinking.** Many of you will struggle as you learn the appropriate study techniques that work for you.

- I will do my best to try to help you but with a class of 485 students you have to be self motivated

- You need to work very hard in this course: be prepared before class, read the assigned material.
  - Then you will understand the lectures much better.
  - Some material you need to revisit read again and think about it.

- If you are struggling with the course then seek help from me, the TA's or from SFU student services.
  - The website is: http://students.sfu.ca/help/index.html

- For Academic Advising go to
  - http://students.sfu.ca/advising/academic/index.html

Grades from High School to University

High School Grade

BISC 101 Grade

	A	B+	B	B-	C+	C	#N/A	Total
A+	4%							2%
A	6%	1%					4%	3%
A-	11%	4%	3%					6%
B+	12%	4%		5%			8%	8%
B	14%	4%	3%				4%	8%
B-	14%	8%	13%				8%	10%
C+	9%	14%	6%	9%		0%	25%	11%
C	6%	13%	13%	5%	25%	0%	4%	9%
C-	4%	13%	6%	5%		17%	8%	8%
D	4%	7%	23%	5%		8%	8%	7%
DE		1%					8%	1%
F	8%	23%	19%	68%	50%	67%	8%	19%
N	4%	8%	13%	5%	25%	8%	8%	7%
WD		1%					4%	1%
Total	100%	100%	100%	100%	100%	100%	100%	100%

Grades from High School to University

BISC 101 grade	A	B+	B	B-	C+	C	#N/A
D	4%	7%	23%	5%	0%	8%	8%
F	8%	23%	19%	68%	50%	67%	8%
Total	12%	30%	42%	73%	50%	75%	17%

Rules

- *Attendance at Tutorials accounts for 5% of the final grade.*
- *No Cell phones, no talking, attendance is not mandatory for the lecture*
- There are 485 students so please don't leave class early. It is very disruptive.
- When you find a seat try not to have empty seats in between.
- *You may hear me cough or clear my throat, just ignore it.*

Other Things

- *Due to the size of the class, there are no make-up exams, unless there are extreme circumstances that would justify it.*
- *I read my email, but may not always reply.*
- *You can also talk to the TA's, they will then discuss things or problems with me.*
- *Office hours are TUE 1:30-3:00 PM office B8267*
  - *–Or any other time that you can find me in the office*
- Please do ask questions in class.