VSU Biology 4530/6530 Comparative Biomechanics Fall 2021

Instructor - Dr. Ted Uyeno

Office – Bailey Science Center Rm. 2208
Phone: 249-4940, Bio office – 333-5759
Email: tauyeno@valdosta.edu

Hours -
Office: **Mon/Tues 10:30am-noon** (or by appointment)
Course:

BIOL 4530/6530
Comparative Biomechanics
Dr. Ted Uyeno

Tentative Lecture Outline - This is the order in which we will cover topics.

TOPIC	TEXT CHAPTERS

BIOL 4530/6530
Comparative Biomechanics
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Tentative Lab Schedule - This is the order in which we will cover topics.

DAY	TOPIC	TECHNIQUE
1	Intro to writing	
2	Intro to Bioinstrumentation	Light/microphotography
3	Kinematics	X-ray/HiSpeed imaging
4	Flow visualization	Velocimetry
5	Material properties	Force/displacement
6	Electronic instruments	Electronics workshop
7	Rapid prototyping	CAD/CAM
8	Egg design	Paper 1 due
9	Mechanisms	
10	Joints	
11	Froud numbers	
12	Presentation preparation	
13	Student presentations	Paper 2 due
14	Student presentations	
15	Thanksgiving	
16	Wrap-up!	

Project 1 (Techniques paper, 75 pts)
Project 2 (Biomechanics paper, 125 pts)

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VSU Classroom Policy Statements:

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