BIBB 217/PSYC 217 Spring 2012

BIBB 217/PSYC 217 Visual Neuroscience

Course Meeting Time:

Lectures M/W/F 9-9:50a., Location: Stiteler Hall B26

Instructor Information:

Instructor: Nicole Rust

Office: Room 317 C-Wing, 3401 Walnut Street (3417 entrance) Phone: (215) 898-4587 (but email is the best contact method)

Email: nrust@psych.upenn.edu

Office hour: M 2-3p

TA: Sean Madigan

Email: smadigan@psych.upenn.edu

Office hour: W 10-11a

Office hour location: Conference Room, 314 C-Wing, 3401 Walnut Street (3417 entrance)

Course Web Site (Blackboard):

https://courseweb.library.upenn.edu/

Check the blackboard for homework assignments, lecture slides, reading assignments, reading notes, Q & A posted to the discussion board, and examples of exams from previous semesters

Prerequisites:

PSCY 1, BIBB 109, VLST 101, or COGS 001.

Requirements:

Homework	Due dates pos	sted on blackboard	20%
Exam 1	Friday	February 10 (in class)	25%
Exam 2	Friday	March 23 (in class)	25%
Final Exam	Monday	May 7, 12-2p	30%

Reading:

Readings will be drawn from class handouts.

Policy on late homework assignments:

Homework will be announced in class and due in class one week after it is assigned. Electronic submissions will not be accepted but you can submit the assignment to Sean's mailbox in the Psychology department (at 3720 Walnut Street, Solomon Lab Bldg) by 10a the day it is due. Graded homework assignments will be returned to you within one week after the due date. Homework assignments submitted after the due date but within one week will be graded with a 50% penalty. Homework assignments will not be accepted after the homework is returned to the other students (without a valid excuse).

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Tentative Topic List:

Design of the human eye.

Light, image formation, optics.

Clinical issues in visual neuroscience.

Visual adaptations in other animals.

Spatial resolution and the contrast sensitivity function.

Overview of retinal anatomy, phototransduction, absolute threshold.

Color vision and trichromacy.

Eye movements, depth perception and binocularity.

Motion perception.

Object recognition and face processing.

Visual cognition, visual attention, and visual memory.