Attention!
This is a *representative* syllabus.
The syllabus for the course when you enroll may be *different*.

Use the syllabus provided by *your* instructor for the most up-to-date information. Please refer to your instructor for more information for the specific requirements for a given semester.

Feel free to contact the Psychology Advising Office for any questions regarding psychology courses either by email ([psychadvising@osu.edu](mailto:psychadvising@osu.edu)) or phone (614.292.5750).

Thank you!
Psychology 5606
High Level Vision

Required materials
Readings will be available on Carmen

Course description
This course will examine the perceptual processes by which humans and other animals are able to obtain knowledge about the three-dimensional environment. The material covered will include ecological optics, the representation of three-dimensional form, and the perceptual analysis of various aspects of image structure, including texture, shading, motion and binocular disparity.

Evaluation
Course evaluation will consist of four exams, each worth 1/4 of your final grade. These exams will contain essay and short answer questions, and will cover material from both the readings and lectures. The lowest of the four exam scores will be downweighted by half for computing the final grade.

Course web site
Powerpoint files and all readings can be downloaded for each lecture on Canvas. Warning: Some of these power-point files are quite large so you should not try to open them on line.

Academic Misconduct
It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct.

Students with Disabilities
Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the Instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; http://www.ods.ohio-state.edu/.
Jan 9, 11  The eye and the visual system

Jan 16, 18  Spatial vision and perceptual organization

Jan 23, 25  Visual attention

Jan 30  *** First exam ***

Feb 1  Geometry and Ecological Optics

Feb 6  Biases in Perception

Feb 8, 13  Linear perspective
University Press. pp. 31-89.

Feb 15  Shape from Texture
angle, camera angle and sign of surface curvature on the perception of 3D shape from texture. Journal
of Vision, 7(12)9, 1-16.

Feb 20  The analysis of line drawings
University Press. pp. 93-146.

Feb 22, 27  The analysis of image shading

March 1  *** Second exam, will not include material from lectures on Feb 22 and 27 ***
March 6  The analysis of image shading continued

March 8  The Analysis of 3D Structure from Motion

March 20, 22  The Analysis of Binocular Disparity

March 27  *** Third exam, will include material from lectures on Feb 23 and 27 ***

March 29, April 3, 5  Recognition

April 10  The analysis of optical flow

April 12, 17  The visual control of action

April 19  ***Fourth Exam***