The Neuropsychology of Memory and Vision

Week 1
Anatomy of the Brain having to do with Memory & Vision
Brain structure - outer and inner
New tools of investigation
Some behaviours linked to brain structure and its connections
Music as an introduction to memory

Week 2
Memory (1) - Putting it into the filing system
Overview
Is there a limit to our memory?
A special clinical case
Input or Encoding
  The neurophysiology of memory
Storage- Sensory, Working and Long-term Memory

Week 3
Memory (2) - Getting it out of the filing system
Recall –retrieval –why you remember & why you forget
Memory construction
False memories
Amnesia

Week 4
Memory (3) - Where did I put my glasses? Oh, they are on my head!
Aging and recall
What types of memories are particularly vulnerable and which are protected?
‘Senior moments’, ‘tip of the tongue’, ‘sleep on it’
Is there anything you can do about it?
Neuroanatomy of aging and memory
Mild cognitive impairment
Alzheimer’s

Week 5
Vision (1)- Eye and the brain- The intelligent eye.
Physiology of the eye
Physiology of the retina
Colour vision
Role of the cortex
Vision is anything but a camera
When the cortex is malfunctioning
Imagery versus hallucinations (new 2016)
Two eyes but one image

**Week 6**

Vision (2)-Do we have to learn to see? - Is seeing believing?
Role of experience
Recovery of sight in a blind adult
Visual perception in human infants & other critters
Visual Constancies –shape, size
When they work and when they don’t