GENERAL OBJECTIVES:

- general considerations of the organization of layers in face and scalp
- muscles of facial expression and their
- irrigation and innervations of scalp and face

SPECIFIC OBJECTIVES:

1. Layers
   a. Scalp
      - organization: S.C.A.L.P. as an acronym for layers
      - note: layers in which neurovascular structures course
         - The lack of deep fascia
         - The muscular part of the aponeurotic layer
   b. Face
      - similar organization to scalp, with no deep fascia
      - in face a muscular layer replaces aponeurotic layer of scalp

2. Muscles of scalp and face
   - derived embryologically from mesenchyme of ‘2nd pharyngeal arch’
   - ‘muscles of facial expression’
   - sphincters and dilators

3. Nerve supply to SCALP and face
   a. Motor (branchial/special visceral efferent)
      CN VII
      - Note: entry and exit foraminae in petrous temporal bone (use skull bones)
      - Extracranial course through the parotid gland and formation of ‘pes anserinus’
      - Branches and distribution
   b. Sensory (three branches)
      CN V
      - Note: V1: supraorbital, supratrochlear, infratrochlear, external nasal, lacrimal
      - V2: zygomaticotemporal, zygomaticofacial, infraorbital
      - V3: auriculotemporal, buccal, mental
      - Cutaneous branches from ventral and dorsal rami of cervical spinal nerves

4. Vascular supply to SCALP and face
   a. Arterial
      - 4 branches of external carotid (occipital, posterior auricular, superficial temporal, facial)
      - 2 branches of internal carotid (supraorbital and supratrochlear)
      - area of overlap
   b. Venous
      - communications between veins of orbit and superficial veins of face
   c. Lymphatic drainage of scalp and face