

Faculty In Charge Of Course:	Latisha Smith, M.D.
Participating Faculty:	Drs. Caroline E. Fife and Erik Maus
Location:	Memorial Hermann Center for Hyperbaric Medicine And Wound Healing
Offered:	Each period
Max. # Students/Period:	1

Course Objective**Material Covered:**

- Principles of oxygen transport to tissues
- Diving physiology
- Pathophysiology and treatment of decompression sickness, air embolism, carbon monoxide poisoning, radiation tissue damage, HBO Enhanced Wound Healing
- Pathophysiology and treatment of chronic wounds and lymphedema

Skills Acquired:

- Understanding of oxygen transport to tissues
- Familiarity with chamber environment during simulated dives
- Able to identify clinical uses of hyperbaric oxygen therapy
- Able to identify etiology of chronic wounds
- Able to perform sharp debridement of chronic wounds
- Able to identify etiology of chronic edema
- Place compression bandage on lower extremity
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Activities Of Elective**Number Of New Patients/Student/Week:**

3

Responsibilities Of Student For Assigned Patients:

Does history/physical:	Yes
Who critiques:	Attending Physician
Follows patients, with appropriate notes as needed:	Yes
Who supervises:	
Does student see ambulatory patients:	Yes

Procedures	Observe	Perform
Evaluation of injured scuba divers		X
Transcutaneous oximetry		X
Wound debridement		X
Assist patients inside hyperbaric chamber		X*
Use of laser doppler to determine perfusion pressure		X

* If physically cleared by HBO MD

Scheduled Duties Of Student:

Frequency of rounds on patients:	As dictated by consultations done
Presents patients to preceptor or attending physician:	yes
Weekly schedule of required teaching sessions:	2 per week scheduled around clinical duties

Describe Optional Rounds And Activities, If Any:

Exposure to hyper- and hypobaric environment

Other Required Activities:

Reading/review of current literature:	Reading and review of current literature
Other:	Participate in ongoing research activities

How Is Student Evaluated:

Clinical skills, intellectual curiosity, effort and willingness to participate. Assessed in written format per University standard.

Who Evaluates Students:

Faculty in charge of course, with input from all participating faculty.

Unique Features Of This Elective:

Exposure to altered environmental conditions which affords application of physiologic principles.