

## Elective Description

**Campus:** Bismarck (Southwest)

**Elective/Experience Title:** Introduction to Emergency Medicine Online

**Location of Elective:** Virtual

**Department:** Emergency Medicine

**Course Number:** EMRG 9105-03

**Preceptor(s):** Dr. Jon Solberg

**Period(s) Offered:**

**Number of students per period:** unlimited

**Course Prerequisites:** none

**Revised Curriculum Phase(s):**

**Purpose:** Provide an Introduction to Emergency Medicine

**Objectives:** Following successful completion of this elective, the student will be able to:

1. Apply the “ABCs” (Airway, Breathing, Circulation) to efficiently recognize and treat life threatening conditions.
2. Develop a basic differential diagnosis and treatment plan for chest pain, shortness of breath, and cardiac arrest.
3. Develop a basic differential diagnosis and treatment plan for altered mental status, headache, and poisonings.
4. Develop a basic differential diagnosis and treatment plan for abdominal pain and GI bleeding.
5. Demonstrate knowledge on specific cardiovascular topics: AAA, ACS, Thoracic dissection, heart failure, pulmonary embolism, and arrhythmias via completion of final exams.
6. Demonstrate knowledge on specific endocrine/electrolyte topics: hyperglycemia, hypoglycemia, hyperkalemia, and thyroid storm via completion of final exams.
7. Demonstrate knowledge on environmental topics: Burns, envenomations, hypothermia, and drowning via completion of final exams.
8. Demonstrate knowledge on gastrointestinal topics: appendicitis, bowel obstruction, GI bleeding, perforated viscus via completion of final exams.
9. Demonstrate knowledge on genitourinary topics: ectopic pregnancy, PID/TOA, ovarian and testicular torsion via completion of final exams.
10. Demonstrate further knowledge on neurological topics: CVA, intracranial hemorrhage, meningitis, seizures via completion of final exams.
11. Demonstrate further knowledge on psychiatric topics: agitation and suicidality via completion of final exams.
12. Demonstrate further knowledge on pulmonary topics: asthma, COPD, pneumonia, and pneumothorax via completion of final exams.
13. Demonstrate further knowledge on Sepsis via completion of final exams.

**Instructional Activities:** During this elective, the student will be involved in/experience:

1. Curriculum administered through Blackboard software
2. Introductory videos on Flipped EM Classroom.com
3. Written summaries of the topics included in the objectives.
4. Final examinations: 2 fifty question exams.

**Criteria for Grading:** During and following this elective, the preceptor will:

1. Utilize the standardized UNDSMHS virtual senior elective evaluation form.
2. By direct review of written summaries evaluate the student’s knowledge of objective topics.
3. Final test “The Approach To...”
4. Final test on “specific diseases”
5. Final tests must be passed with 75% or greater. Re-examination will be allowed if the student does not pass on the first attempt.