

Phase 1 Elective Description

Campus: Northeast (Grand Forks)

Elective/Experience Title: COVID-19

Location of Elective: Asynchronous and Zoom

Department: Biomedical Sciences

Course Number: MED 9601-02

Preceptor(s): Jane Dunlevy, PhD & David Bradley, PhD

Period(s) Offered: Phase 1 2-week elective period

Number of students per period: Unlimited

Course Prerequisites: None

Revised Curriculum Phase(s): I

Elective Length in weeks: 2

Estimated # of Hours Required:

Face-to-Face/Zoom: 12hrs Independent/Asynchronous: 30hrs

Will any Face-to-Face/Zoom hours occur on Weekends?

Yes___ No_X_

Will any Face-to-Face/Zoom hours occur on after 5pm?

Yes___ No_X_

Purpose:

The overall purpose of this elective is to use the COVID-19 pandemic as a clinical example to integrate many basic medical science topics learned in Unified Sessions / Units 1-3. The principles of biochemistry, cell biology, immunology, virology, vaccinations, neurology as well as in renal, cardiovascular, and respiratory physiology will all be integrated into the clinical science knowledge evolving through the complexities of the COVID-19 pandemic.

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

1. Given a scientific or case scenario, evaluate how the emerging understanding of COVID-19 pathophysiology translates to evolving diagnosis, treatment, and prevention efforts, as determined by preceptors. (SMHS competencies 1.10, 2.1, 2.2, 2.4, 2.6, 2.8)
2. Having chosen a specific COVID-19 subtopic, show proficiency with utilizing a wide range of scientific resources and materials to teach peers, as determined by preceptors. (SMHS competencies 1.3, 1.6, 1.7, 1.8, 1.10, 4.5)

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

1. The students will asynchronously work through the Harvard "COVID-19 Curriculum" written by medical students for medical students and evaluated by faculty content experts → <https://curriculum.covidstudentresponse.org/>. This COVID-19 curriculum is divided into 8 Modules that include detailed scientific information, graphics, videos including grand rounds, and is extensively referenced. (See attachment for details of the modules and topics covered)
2. Students will meet with faculty daily in small groups to discuss concepts and explore unknowns within the curriculum.
3. Students will work in teams to generate a creative presentation of their choice (PowerPoint, Role Play Skit, pre-recorded video, Poster, Paper). Students will have wide flexibility of the subtopic they choose for their presentation, but the subtopic will be subject to preceptor approval. On the final day of the elective, students will share their creative presentation with peers and preceptors.

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

1. Utilize the standardized UNDSMHS phase I elective evaluation form. (Objectives 1-2)
2. Students will take a basic COVID-19 proficiency quiz and will be expected to score $\geq 70\%$. Two attempts will be allowed to reach proficiency. (Objective 1)
3. Students will be required to attend and participate in all discussions as well as the final day presentations. (Objectives 1-2)

Grading for this elective is Satisfactory/Unsatisfactory. Students who receive an unsatisfactory grade for the elective will be required to remediate the elective as per criteria set forth by the elective director(s) and in consultation with Assistant Dean for Medical Education.