

## Phase I Elective Description

**Campus:** Northeast (GF)

**Elective Title:** REMS II & REMS III

**Location of Elective:** as approved by course director

**Department:** Biomedical Sciences

**Course Numbers:** BIMD 9601-02 & BIMD 9601-03

**Other Phases That Can Enroll:** No others

**Preceptor(s):** UND SMHS faculty

**Phase 1 Period(s) Offered:**  Summer-I (REMS II)  Summer-II (REMS III)

**STUDENTS MUST ENROLL IN BOTH REMS II AND REMS III TO COMPLETE THE ELECTIVES**

**Number of students per period:** all eligible

**Elective Length:** 8 weeks total for both REMS-II & REMS-III

**Course Prerequisites:** REMS I

**Estimated # of Hours Required:**

Face-to-Face/Zoom: 40/week Independent/Asynchronous (see below)

- *Face-to-Face/Zoom hours may occur on Weekend when experiments require additional attention.*
- Face-to-Face/Zoom hours may occur after 5pm when experiments or other laboratory responsibilities are required

**Purpose:** The goal of the REMS II elective is to provide hands on experience and training in laboratory and/or clinical research training which may include; basic, behavioral, social, or translational (clinical) research.

Research opportunities may include laboratories on the UND campus, Sanford Research, ND clinicians and opportunities outside the region such as, but not limited to, Minnesota or South Dakota. If you are planning to study outside of ND and have made a commitment to a laboratory out of state contact the program director to determine if appropriate affiliation agreements are in place Note that once identified, the sponsor and student will jointly submit an application that contains 1) a one page description of the research project which includes its hypothesis, goals, expected duration and the hours the student expects to work each week, and 2) a letter from the supporting faculty PI indicating their effort on the project and commitment to participation in the students training.

The REMS program also provides an excellent training opportunity for those medical students who may be considering placement in the UND SMHS Physician-Scientist Training Program for completion of an MD-PhD.

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

1. Demonstrate application of the scientific method and basic experimental design (Competency 1.1, 1.2, 1.3, 1.8)
2. Execute relevant technology to successfully complete an experimental design (Competency 1.8, 3.6).
3. Generate for presentation and/or publication the objectives, methods, results and interpretation of the experimental outcome(s) (Competency 1.8).

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

1. Attending all seminars presented by faculty when possible. If not possible please provide an excused absence from the mentor.
2. Complete the campus wide use of animals in research training, the required and relevant biological safety training not already completed in REMS-I (i.e., radioactive materials etc.).
3. Attend all laboratory meetings convened by the host mentor.
4. Dedicate a minimum of 40 hours per week to the laboratory or clinical research objective.
5. Students may choose to prepare a poster presentation for the forthcoming Frank Low Day research symposium.

**Grading for this elective is Satisfactory/Unsatisfactory.**

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

1. Utilize the standardized UNDSMHS phase I research elective evaluation form with consideration of feedback from the student's research director (objectives 1-3).

All students must provide the REMS application below to the REMS Director 10-days before the start of the elective period.

**REMS APPLICATION for the UNIVERSITY OF NORTH DAKOTA**  
**SCHOOL OF MEDICINE AND HEALTH SCIENCES**

**Personal Information**

|  |
|--|
| Name (Last, First, Middle)   |
| Email  |
| Incoming class <input type="checkbox"/> MSI <input type="checkbox"/> MSII <input type="checkbox"/>               |
| Have you participated in the REMS II program before?    Yes <input type="checkbox"/> No <input type="checkbox"/> |
| Did you participate in REMS-I?    Yes <input type="checkbox"/> No <input type="checkbox"/>                       |
| Have you any prior research experience?    Yes <input type="checkbox"/> No <input type="checkbox"/>              |

**Research/Training Environment**

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|--|
| Name of REMS Research Advisor:<br><br>Title:<br><br>Email:<br><br>Telephone: |
| College/University/Hospital:<br><br>Department:                              |
| Mailing Address of Host Research Laboratory (if off campus):<br><br><br>     |
| Title of Research Project  |
| Description of Proposed Study  |



***\* Please note that an email stating an agreement to work with the student for 8-weeks must be emailed to the REMS Director before the student can engage in elective research.***