2100 Clerkship Elective Template

Course: Individual Research Elective **Course Number: RSRH 2101**

Department: Internal Medicine

Faculty Coordinator: Dr. Rene Galindo

Assistant Faculty Coordinators:

Hospital: (Location of rotation) All Hospitals are eligible

Periods Offered: **Offered All Periods**

Length: **4 weeks**

Max # of Students: **No Limit**

First Day Contact: **Mentor**

First Contact Time: **Mentor**

First Day Location: **Mentor**

Prerequisites: *(please include any required clerkships; students have elective time starting in the early clerkship phase)*: None

I. **Course Description**

Students wishing to conduct research during the course of their medical school training may do so for elective credit. This elective is for full-time research for the four-week blocks and cannot be taken at the same time as another elective. For elective approval, the Associate Dean is looking for research projects that demonstrate the advancement of a hypothesis. This should include an overview of the background, the methods that will be employed, and the expected outcomes and analytic methods that will be used. Approval of the research project is required prior to enrolling in this elective.

Schedule

Student will work as a full-time research assistant for 4 weeks and are expected to work 40 hours a week during this elective.

Course Requirements

The Research Elective must be arranged six weeks in advance with the Associate Dean by the submission of all the information requested below:

1. Proposal Form- as signed by the student and mentor as a contract of understood goals with a description of the study and what is to be accomplished This should include an overview of the hypothesis, the methods that will be employed, and the expected outcomes and analytic methods that will be used. Specific details of the student role in the proposed project should be outlined.
2. Approval form- for submission to the registrar's office.

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Completed forms should be sent to the Associate Dean for Medical Student Research for approval. The Associate Dean's office will forward the forms to the registrar.

Failure to complete the needed paperwork correctly might result in no transcript notation or a delay in research activities.

Goals (*examples-edit as needed*)	**Objectives** (*describe activities that will support how goals are to be achieved*)	**Assessment methods** *(examples-explain how student will be evaluated)*
Medical knowledge: 1. *The Student will be able to articulate a testable hypothesis* 2. *The student will know the pathophysiology of the field of study they are researching*	Student will write up an abstract of the proposed research covering background, hypothesis, methods and conclusions, including the disease relevance	*Assessment & Acceptance of written Proposal of Research project* *Assessment of written final summary of findings*
Interpersonal and communication skills: 1. *The students will effectively exchange information with their UTSW Faculty researcher, patients, IRB members, and the team, including nurses, faculty, residents and ancillary staff.*	Student will coordinate daily with research staff members and possibly consent patients Students will meet often with their mentor to discuss progress	*Observations of faculty and staff*
Practice Based learning and Improvement: 1. *Students will demonstrate the ability to assimilate scientific evidence.*	Students will write a final abstract of the research done, consisting of a background, hypothesis, methods and results sections	*Assessment & Acceptance of written Proposal of Research project* *Assessment of written final summary of findings*
Professionalism: 1. *Students must demonstrate a commitment to carrying out professional responsibilities*	Student will coordinate daily with research staff members and possibly consent patients	*Observations of faculty and staff*
Systems based practice: 1. *Know how research fits into the larger system of health care.* 2. *Work with the team and patients to optimize use of system resources*	Students will write a final abstract of the research done, consisting of a background, hypothesis, methods and results sections	*Observations of faculty and staff* *Assessment of written final summary of findings*

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III. **Methods of Instruction:**

Student mentors will be the day-to-day contact for the students and will be primarily responsible for their education in research methodology and research ethics.

IV. **Overview of student responsibilities**

As much as the experience should be tailored to the student's research interests, any activity outside of the basic research project will need to agree upon with the track director in advance, for example, shadowing opportunities or interview traveling. The student is accountable to both the on-site mentor and the Associate Dean.

Prior to Rotation Start

- Initial meeting with Track Director or Mentor. Students will be encouraged to submit a new project or select a project from existing project available
- Complete a **project proposal** and turn it into the Associate Dean's office- Due SIX WEEKS before the rotation
- Complete any required training (if needed).

During the Rotation

- **Complete any training still pending (IACUC or Lab Safety)**
- Orient to the department and learn procedures of research.
- Comprehensive literature review of journal articles pertaining to the chosen project topic.
- Attend required lecture of the track and any lab meeting or grand rounds the mentor has made part of the mentoring plan.
- Develop an appropriate data collection strategy; along with any data collection tools needed.
- Develop data analysis plan and perform analysis of data collected.
- Submit a Summary (1 page) of their findings.

IV. **Method of evaluation of students and requirements:**

Grades will be pass / fail.

Attendance is required to receive credit for the course as well as a passing evaluation by their mentor.

Each student must submit a summary of their research experience at the conclusion of the program. The description should include: 1) the problem explored; 2) the hypothesis tested; 3) the methods employed; 4) the results obtained; and 5) the conclusions drawn. Note that with proper formatting, variations on this summary would be acceptable for submission as an abstract to the annual UT Southwestern Medical Student Research Forum. Abstracts submitted to the research forum are published and can be listed on your curriculum vitae.

Course Evaluation

To receive transcript notation, students must complete the online course evaluation form