Course Department, Number & Title: PED 809, Pediatric Research Elective

Course credit or length: 4 or 6 weeks

Course director and contact information: Dr. Jennifer Gerlach, 304.691.1371. kayser6@marshall.edu

Course coordinator and contact information: Emily Smith, 304.691.1371, pelfrey40@marshall.edu

Course location: Marshall Pediatrics, 3rd Floor, Marshall University School of Medicine

Course Description: Students interested in pediatric research will contact the course director to discuss opportunities for research in the pediatric department. A research experience in Pediatrics will be arranged on an individual basis with a faculty mentor in the Pediatric Department. This course gives the student the opportunity to work with a pediatric faculty member on a predetermined research project in an area of mutual interest. During this elective period, the student will attend scheduled lectures and conferences.

Goals: The student will develop a research protocol relevant to a pediatric topic. The student will develop research skills including but not limited to project design, grant writing, application of the scientific method, statistical analysis, presentation skills and paper writing.

Requirements: The student will submit a summary of their work, and give a presentation of their project at the end of the rotation.

Grade Mode: Pass/Fail

Institutional Objective
Medical Knowledge- Students must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.

Course Objective
The student will develop a solid knowledge base of pediatric problems relevant to the research project, as well as research knowledge such as project design, grant writing, application of the scientific method, statistical analysis, presentation skills, and paper writing.

Outcome Measure
The student will conduct a Project Presentation and submit a Research Summary per the instructions below.

1. Abstract/Presentation at Departmental Research Day
2. MUSOM Research Day
Institutional Objective
Interpersonal and Communication Skills- Students must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.

Course Objective
At the end of this course, students will be able to:
1. Demonstrate interpersonal and communication skills that assist in effective information exchange and be able to team with professional associates.
2. Elicit and provide information using effective listening, non-verbal, explanatory, questioning, and writing skills.
3. Maintain comprehensive, timely, and legible research records.

Outcome Measure
The student will conduct a Project Presentation and submit a Research Summary per the instructions below.

Institutional Objective
Professionalism- Students must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.

Course Objective
Students will demonstrate professionalism by:
1. Maintaining confidentiality of patient information.
2. Demonstrating punctuality in completing assignments.
3. Maintaining positive attitude and good work ethic.
4. Demonstrating respect, compassion, integrity, and responsiveness to the needs of patients.
5. Promptly responding to the needs of nursing and support staff.

Outcome Measure
The student will conduct a Project Presentation and submit a Research Summary per the instructions below.

Systems-based Practice - Students must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care.

Course Objective
Students will demonstrate to the faculty a:
1) Basic understanding of methods to practice cost-effective health care and resource allocation that do not compromise quality of care.
2) Basic ability to demonstrate knowledge that patient safety is always the first concern of the physician.
3) Basic understanding of the universal precautions and how health care workers may decrease the risk of acquiring blood borne illness.
4) Basic understanding of the grant writing process and funding of scientific research.

**Outcome Measure**
The student will conduct a Project Presentation and submit a Research Summary per the instructions below.

**Self-Directed Learning**
As a medical student, you are encouraged to use any unstructured time as a time to read about your project, and research questions that arise during the day. Use this time to build your knowledge of medicine.

**Additional Responsibilities of the Student**
1. The student must contact the Course Director prior to enrollment to discuss his or her research project.
2. The student will act and dress in a professional manner.

**ASSESSMENT METHODS**

**Mid-Point Evaluation**
In accordance with LCME standard ED-30, the Course Director will evaluate student performance at mid-point to review the student’s professional and academic performance up to that point. The formative evaluation must be reviewed with the student and the student will have an opportunity to discuss with the Course Director. The form must be signed by the student and returned to the Course Director. The form will NOT however be included in the student’s official academic record.

**Presentation**
Students will be required to present a summary of his or her work in a scientific meeting format. This will be done at the end of the rotation.

**Summary**
Students will be required to write a summary of their project including background information, project design statistical analysis to be use and intended benefits of the research. The summary of background literature reviewed will be due by the midpoint evaluations. With permission, the final may be submitted after finishing the rotation, but no grade will be tendered until the final draft is submitted.

**Required References:** To be assigned by the course director upon review of the student’s research interest.

**MUJCESOM Policies:** All medical students taking this course will comply with School of Medicine policies given at [http://musom.marshall.edu/students/policies](http://musom.marshall.edu/students/policies).