

# RHEUMATOLOGY & ALLERGY (RAL)

## School of Medicine

### **RAL 099 – Directed Research Immunology (1-5 units)**

*Course Description:* Independent research will be encouraged in basic immunology, including the role of the cellular immune system in oncogenesis.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Laboratory.

*Grade Mode:* Pass/No Pass only.

### **RAL 192 – Internship in Rheumatology-Allergy (1-12 units)**

*Course Description:* Supervised work experience in rheumatology-allergy.

*Prerequisite(s):* Upper division standing; approval of project by preceptor prior to internship.

*Learning Activities:* Internship 3-36 hour(s).

*Repeat Credit:* May be repeated 12 unit(s).

*Grade Mode:* Pass/No Pass only.

### **RAL 199 – Directed Research in Immunology (1-5 units)**

*Course Description:* Independent research will be encouraged in basic immunology, including the role of the cellular immune system in oncogenesis.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Laboratory.

*Grade Mode:* Pass/No Pass only.

### **RAL 209 – Current Topics in Immunology: From Presentations to Grants (3 units)**

*Course Description:* Current developments in various aspects of immunology and their interrelationships. Focus on areas of immunology not currently covered in the basic and advanced immunology courses. Oral presentation, written review and grant preparation.

*Prerequisite(s):* IMM 201.

*Learning Activities:* Lecture 1 hour(s), Term Paper/Discussion 1 hour(s), Project 1 hour(s).

*Grade Mode:* Letter.

### **RAL 298 – Topics in Rheumatology & Clinical Immunology (1-4 units)**

*Course Description:* Library and/or laboratory work as required.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Laboratory.

*Grade Mode:* Satisfactory/Unsatisfactory only.

### **RAL 299 – Research in Autoimmune Disease (1-18 units)**

*Course Description:* Independent research will be encouraged in both animal models of human disease (including congenitally athymic [nude], asplenic, and New Zealand mice) and the cellular immune system of patients with systemic lupus erythematosus, Sjögrens syndrome, polymyositis and drug hypersensitivity.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Laboratory.

*Grade Mode:* Satisfactory/Unsatisfactory only.

### **RAL 460 – Rheumatology Clinical Clerkship (1-18 units)**

*Course Description:* Participation with members of the subspecialty service in the diagnosis and therapeutic management of patients with rheumatologic diseases.

*Prerequisite(s):* MDS 431 and consent of instructor.

*Learning Activities:* Clinical Activity 2-40 hour(s).

*Repeat Credit:* May be repeated.

*Grade Mode:* Honors/Pass/Fail.

### **RAL 461 – Allergy Clinical Clerkship (3-18 units)**

*Course Description:* Student will work with practicing allergist in daily work with patients and participate in weekly allergy clinic and teaching conferences. Study of the literature. Will see patients with problems in clinical immunology, immunodeficiency, asthma, allergic rhinitis.

*Prerequisite(s):* Consent of instructor; completion of second year of medical school.

*Learning Activities:* Clinical Activity.

*Grade Mode:* Honors/Pass/Fail.

### **RAL 465 – Business of Medicine – The Fundamentals (3 units)**

*Course Description:* Fundamentals of business in healthcare, while introducing healthcare systems and historic perspective of healthcare evolution. Become familiar with types of clinical practice systems, operations and organizational fundamentals, their origin, differences, and develop knowledge of basics of healthcare finance and its broad applications.

*Learning Activities:* Independent Study 20 hour(s), Web Virtual Lecture 10 hour(s), Extensive Writing/Discussion 10 hour(s).

*Grade Mode:* Pass/Fail only.

### **RAL 480 – Insights in Rheumatology (1-3 units)**

*Course Description:* Participation in rheumatology consultation rounds, rheumatic disease clinics and conferences with supervised readings in rheumatology.

*Prerequisite(s):* Consent of instructor; student in good academic standing.

*Learning Activities:* Clinical Activity 3-9 hour(s).

*Grade Mode:* Satisfactory/Unsatisfactory only.

### **RAL 499 – Research (1-12 units)**

*Course Description:* Part-time participation in active clinical and basic research projects which can involve both patient care and relevant laboratory procedures. Students can gain experience in clinical medicine and clinical investigation.

*Prerequisite(s):* Medical student with consent of instructor.

*Learning Activities:* Variable 2-40 hour(s).

*Repeat Credit:* May be repeated.

*Grade Mode:* Honors/Pass/Fail.