

# CELLULAR AND MOLECULAR ONCOLOGY (CMO)

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## **CMO 499 Research (1-9 Credit Hours)**

*Pre-requisites:* Restricted to students enrolled in CMO MS program

CMO 499 is designed to give credit for laboratory research efforts that will result in a M.S. thesis. Students will learn theoretical and laboratory technical tools to investigate and test a hypothesis. Students will search the literature for background, rationale, and protocols for their research project. Students will communicate results and knowledge through written and oral communications.

*Outcomes:*

1) Clearly communicate, describe, and implement techniques used for a research problem; 2) Describe results-obtained; 3) Draw conclusions based on data-obtained; 4) List future directions; and 5) Understand the significance of the work

## **CMO 502 Seminar (0 Credit Hours)**

A seminar will be held on a rotating basis once per week. CMO M.S. students will be required to attend seminars as part of the CMO 502 course. This course is designed to help students stay abreast of current topics in oncology. Students will attend weekly seminars, and are encouraged to interact with both invited and current faculty speakers by asking questions and contributing to group discussions. Upon completion of this course CMO 502, students will have gained a better understanding of current oncology research. Restricted to students enrolled in CMO MS program

*Outcomes:*

1) Describe results or conclusions from a given seminar presentation; 2) Understand how research is advancing knowledge in a given field covered by a representative seminar; 3) Question new data or their interpretation

## **CMO 503 Special Topics in Oncology (0-1 Credit Hours)**

CMO 503 will be a new journal club course-discussing and analyzing papers from presenters in CMO 502 Seminar Series one week in advance of their seminar. CMO 503 and CMO 502 will be aligned to expose students to oncology-focused scientists presenting a seminar the following week. Students will read an article by the seminar speaker, participate in discussion sessions, and ask questions during the seminars. Restricted to students enrolled in CMO MS program

*Outcomes:*

1) Describe cutting edge research in the particular area of investigation covered by the course; 2) Discuss limitations to experimental approaches; 3) Discuss real-world application of the research topic being studied; and 4) Critically read scientific literature on cancer biology

## **CMO 595 Thesis Supervision (0 Credit Hours)**

*Pre-requisites:* Completion of required coursework

Thesis supervision course for CMO MS students who have completed the required credit hours.

*Outcomes:*

Allows completion of thesis research and defense, required for degree