Cell + Molecular Biology-CM (CM)

Courses
CM 501 Advanced Cell Biology Credits: 4 (4-0-0)
Course Description: Cell structure and organelle function.
Prerequisite: BZ 310.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

CM 502 Techniques in Molecular & Cellular Biology Credits: 2 (1-3-0)
Also Offered As: NB 502.
Course Description: Current methods in molecular and cellular neurobiology.
Prerequisites: (BIO 100 to 481 - at least 4 credits or BZ 100 to 481 - at least 4 credits or LIFE 100 to 481 - at least 4 credits) and (BC 100 to 481 - at least 4 credits and PH 100 to 481 - at least 4 credits).
Registration Information: Written consent of instructor. Must register for lecture and laboratory. Credit not allowed for CM 502 and NB 502.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

CM 510 Introduction to Cell and Molecular Biology Credit: 1 (1-0-0)
Course Description: Overview of CMB program and research opportunities; enhances writing and oral communication skills.
Prerequisite: None.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

CM 520 Proteolytic Regulation of Cellular Processes Credits: 3 (2-0-1)
Course Description: Functions of proteolytic pathways in the regulation of eukaryotic cellular processes, such as mitosis, apoptosis, signal transduction and gene regulation.
Prerequisite: CM 501.
Registration Information: Must register for lecture and recitation.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

CM 595 Independent Study Credits: Var[1-18]
Course Description:
Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 601 Responsible Conduct of Research in CMB Credit: 1 (0-0-1)
Course Description: Key aspects of responsible conduct of research and ethical considerations in cell and molecular biology.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Enrollment in the CMB graduate program.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 640 Creative Science Writing Credits: 3 (3-0-0)
Course Description: Consideration of creative writing techniques and their relevance to traditional science/nature writing.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 666 Science and Ethics Credits: 3 (3-0-0)
Also Offered As: PHIL 666.
Course Description: Ethical issues of research on humans and animals; biosafety; fraud and deception in science; genetic engineering.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Credit not allowed for both CM 666 and PHIL 666.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

CM 699 Thesis Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 700 Critical Analysis of Scientific Literature Credit: 1 (0-0-1)
Course Description: Presentation and discussion of current literature of cell and molecular biology. Content varies each semester to include the major focus groups.
Prerequisites: BC 565 and CM 510.
Registration Information: May be repeated for a maximum of 4 credits.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 701D Topics in Cell and Molecular Biology: Radiation Cytogenetics Credit: 1 (1-0-0)
Course Description: Prerequisites: (BC 403 and MATH 255) and (CM 501).
Restriction: Must be a Graduate, Professional.
Term Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 701I Topics in Cell and Molecular Biology: Planning Research and Grant Proposals Credits: 2 (2-0-0)
Course Description: Prerequisites: (BC 403 and MATH 255) and (CM 501).
Restriction: Must be a Graduate, Professional.
Term Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.
CM 702B Methods in Cell and Molecular Biology: Mammalian Cell Culture Techniques Credit: 1 (0-3-0)
Course Description:
Prerequisites: (BC 403) and (CM 501).
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 702C Methods in Cell and Molecular Biology: Immunochemical Techniques Credit: 1 (0-3-0)
Course Description:
Prerequisites: (BC 403 and MATH 255) and (CM 501).
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 702D Methods in Cell and Molecular Biology: Radiation Cytogenetics Credit: 1 (0-3-0)
Course Description:
Prerequisites: (BC 403) and (CM 501).
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 702E Methods in Cell and Molecular Biology: Flow Cytometry and Cell Sorting Credits: 2 (0-4-0)
Course Description:
Prerequisites: (BC 403) and (CM 501).
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 710 Techniques in Molecular Biology and Genetics Credits: 3 (0-4-1)
Also Offered As: BSPM 710.
Course Description: Genetic manipulation of bacteria, bacteriophage, and yeast including experiments in molecular cloning and gene expression.
Prerequisite: BC 463 or BZ 346 or BZ 350 or MIP 450 or SOCR 330.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for laboratory and recitation.
Credit not allowed for both CM 710 and BSPM 710.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

CM 784 Supervised College Teaching Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 792 Cell and Molecular Biology Seminar Credit: 1 (0-0-1)
Course Description: Preparation and presentation of cell and molecular biology seminars.
Prerequisite: CM 501, may be taken concurrently.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 793 Seminar Credit: 1 (0-0-1)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 795 Independent Study Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

CM 799 Dissertation Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.