

Ultrastructure of Marine Organisms

Spring 2015

(BMME 7080, OCMB6530, MEVS 5145)

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Class format will be individual student instruction in EM theory and methods. Students will have designated ultrastructural research goals. Topics included are the following.

Spring 2015

Session 1: Introduction to Microscopy

- Lab: Transmission and SEM: Theory & Demo

Session 2: Specimen/Beam Interactions

- Lab: TEM/ESEM Hands-on operation

Session 3: X-Ray Microanalysis

- Lab: TEM Sectioning

Session 4: Specimen Preparation: SEM/TEM

- Lab: TEM Staining and Imaging

- *****PROJECT PROPOSALS DUE*****

Session 5: Specimen Preparation: TEM

Lab: Work on Research Projects to End of Semester

Session 6: Project Sectioning and Staining

Session 7: Project Imaging of Samples in SEM/TEM

Session 8: Presentation of Projects and Papers Due

*****RESEARCH PAPER DUE: Last Session of Semester *****