

## **Micropaleontology – 2 credits**

**Course Number:** 224.4032

**Lecturer:** Dr. Beverly Goodman-Tchernov

**Office:** Multipurpose Building – Room 57 (The Marine Geoarchaeology and Micropaleontology Laboratory), email: bgoodman@univ.haifa.ac.il

**Course Type:** Lecture/Laboratory workshops

**Course Level:** MSc/ PhD

**Prerequisites:** Minimum introductory biology and geology courses, or instructor approval. Completed lab safety approval. All registered Leon H. Charney School of Marine Sciences students can enroll (the course is limited to eight students maximum).

### **Course Description:**

Micropaleontology, the study of fossil remains in their smallest forms, living and dead, is a field that has relevance across many major scientific fields. Micropaleontological specimens have been central for addressing major questions within oceanography, geology, biology, and even history.

During the course, students will be introduced to the history of micropaleontological research and its many applications. In addition to lectures and readings, each student will take part in an original micropaleontological laboratory project, which will be completed within the context of the course.

Students in the Educational Cruise Course (Marine Geosciences) are highly recommended to participate in the course, and can complete a portion of their practical credits for the cruise through this course (contact the instructor if you plan to be in the Educational Cruise but do not wish to complete the full micropaleo course).

### **Course Aims:**

This course is intended to provide an overview introduction to micropaleontology broadly combined with practical experience with a well-defined study that will be completed with group work within the course. Students in the course will complete the course with the following:

1. basic capabilities for articulating key ways in which micropaleontology has contributed to marine sciences.
2. ability to perform fundamental hands-on-tasks associated with traditional micropaleontological inquiry, such as sample preparation, quantification, description, identification, and documentation.
3. Practical understanding of the use of statistical software for producing and gaining meaningful results from micropaleontological data.

### **Requirements and Grading:**

1. Attendance/Participation (25% of grade).
2. One individual lecture presentation (mini-seminar, 15-minute presentation) on an article: 25%.

3. Multiple-Choice Short Quizzes (Lecture Material Based): 25%.
4. Final Project (Group): 25%.

**Reading List:**

Reading lists and pdfs of articles per topic will be provided to the students via shared drive.