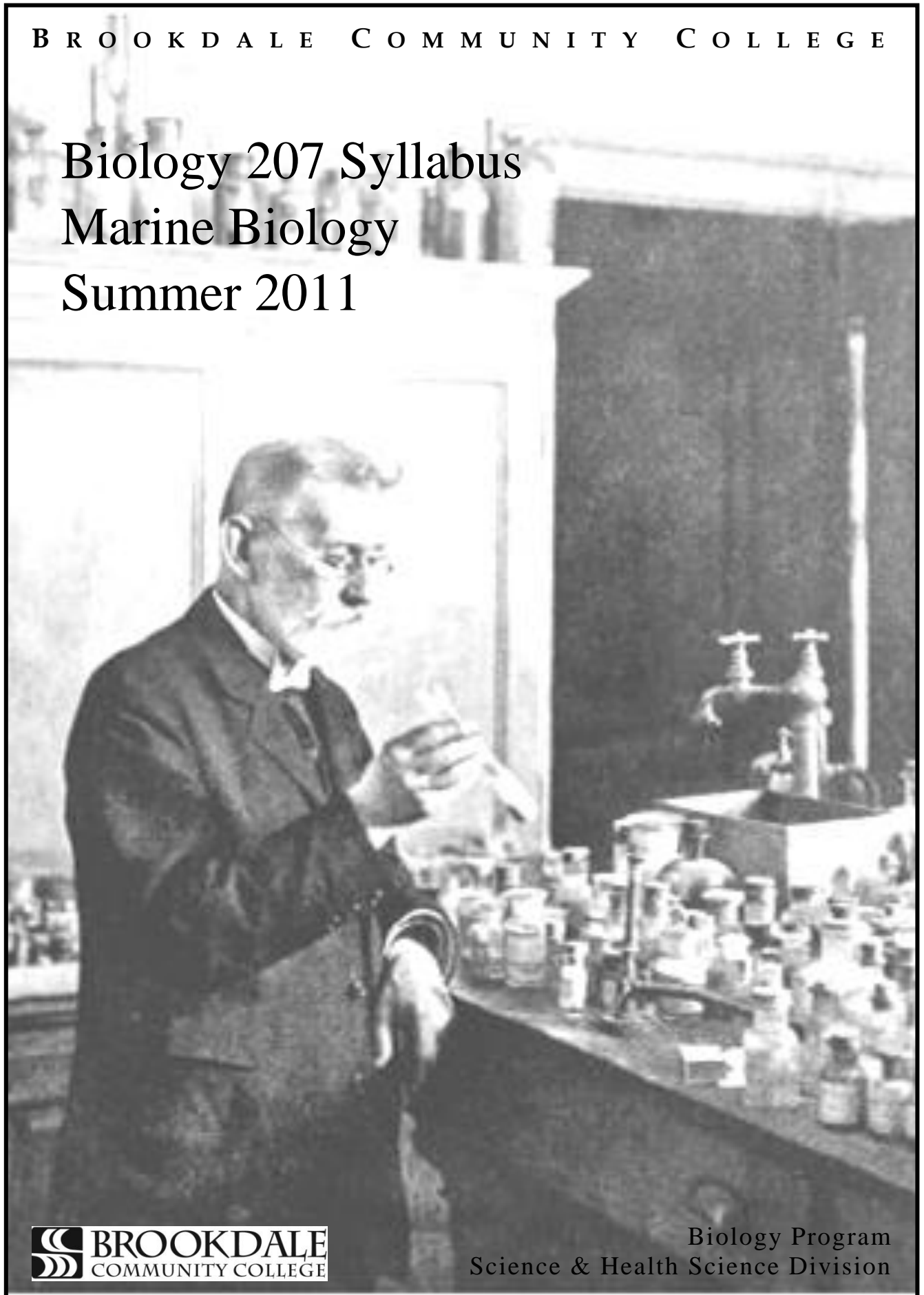


BROOKDALE COMMUNITY COLLEGE

Biology 207 Syllabus  
Marine Biology  
Summer 2011



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**CODE:** BIOL 207

**TITLE:** Marine Biology

**DIVISION:** Science & Health Sciences **DEPARTMENT:** Biology

**COURSE DESCRIPTION:** This course is designed for the student majoring in biology, marine studies or ecology. Through classroom and laboratory experiences, the student will be able to identify the environmental parameters of marine habitats and their effect on the distribution of marine flora and fauna. Students will collect and identify numerous representatives of local marine forms, both in the laboratory and in field settings. The student will also demonstrate proficiency in the utilization of various types of equipment used to complete such tasks, and demonstrate knowledge of the anatomy, physiology and behavior of marine organisms. **NOTE: This course is offered in the Summer I and III terms.**

**PREREQUISITES:** A grade of "C" or higher in BIOL 102 or OCNG 111.

**CREDITS:** 4      **LECTURE HOURS:** 3      **LAB HOURS:** 3

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**REQUIRED MATERIALS:**

Textbook: ***Marine Biology***, 7<sup>th</sup> edition, by Castro and Huber. McGraw-Hill Publishing Company, Inc. The publishers also offer a "Marine Biology Online Learning Center" at [http://highered.mcgraw-hill.com/sites/0073028193/student\\_view0](http://highered.mcgraw-hill.com/sites/0073028193/student_view0) with chapter summaries and quizzes, other learning aids such as flashcards, and video clips and links to related sites. I strongly recommend that you use this site, if possible, especially the video clips, which can make the organisms and environments described in this course "come alive."

**COURSE LEARNING OUTCOMES:**

- Identify the characteristics of marine environs and their influences on marine plant and animal populations
  - Identify various species of marine plant and animal species
  - Use appropriate collecting technology and techniques
  - Demonstrate comprehension of the anatomy, physiology, and behavior of various marine organisms
- (Mathematical/Scientific Reasoning)

**ADDITIONAL TIME REQUIREMENTS:**

Additional weekly lab time may be required to practice lab skills. (See instructor)

**GRADING STANDARD:** A student must have an average of 65% or better for the classroom component and an average of 65% or better for the laboratory component of the course in order to earn a passing grade for the course.

Upon completion of the course, grades will be assigned as follows:

- A = 92 – 100%
- A- = 89 – 91%
- B+ = 86 – 88%
- B = 82 – 85%
- B- = 79 – 81%
- C+ = 76 – 78%
- C = 70 – 75%
- D = 65 – 69%
- F = <65%

A grade of C or better is required in all pre-requisite courses. Career studies courses must have a grade of C or better to count toward the Mathematics / Science Program – Biology Option. Students are permitted to withdraw from the course without penalty until approximately 70% of the semester is complete. Please see term schedule for the exact deadline.

At the end of the semester, application for an Incomplete may be made if a student with proper documentation needs to complete no more than one lecture exam and/or one laboratory practical. The granting of an Incomplete is at the discretion of the instructor. Please see Instructor's syllabus for additional Grading Policies.

### **DEPARTMENT POLICIES**

**Attendance** during class and laboratory sessions is strongly recommended for optimum performance in biology courses.

**Lecture exams** will be given in class or in the Testing Center, depending on instructor preference.

**Laboratory practicals** will be given during laboratory sessions, in accordance with schedules provided by the learning assistants. Exams and practicals must be taken at the times designated by the instructor or learning assistant. A student who misses a lecture exam or laboratory practical must provide prior notification and proper documentation in order to take the exam or laboratory practical. The acceptance of said prior notification and proper documentation will be determined by the instructor.

**Documentation** must be provided within one week of the student's return to the classroom for a make-up exam or laboratory practical to be scheduled. A student who is unable to provide proper documentation for a missed exam or laboratory practical will be given a grade of zero for that exercise. Students may not re-take exams or laboratory practicals on which they perform poorly.

Requirements for the completion of laboratory are listed in the laboratory responsibility sheets for individual courses. Requirements for course completion are listed in individual instructor syllabi.

### **COLLEGE POLICIES:**

For information regarding:

- ◆ Brookdale's Academic Integrity Code
- ◆ Student Conduct Code
- ◆ Student Grade Appeal Process

Please refer to the **STUDENT HANDBOOK AND BCC CATALOG.**

### **NOTIFICATION FOR STUDENTS WITH DISABILITIES:**

Brookdale Community College offers reasonable accommodations and/or services to persons with disabilities. Students with disabilities who wish to self-identify, must contact the Disabilities Services Office at 732-224-2730 or 732-842-4211 (TTY), provide appropriate documentation of the disability, and request specific accommodations or services. If a student qualifies, reasonable accommodations and/or services, which are appropriate for the college level and are recommended in the documentation, can be approved.

### **COURSE CONTENT:**

**Unit One: Setting the Stage: Principles of Marine Science**

*Chapter 1: The Science of Marine Biology*

*Chapter 2: The Sea Floor*

*Chapter 3: Chemical and Physical Features of Seawater and the World Ocean*

*Chapter 4: Fundamentals of Biology*

Unit Two: The Players: A Survey of Marine Organisms

*Chapter 5: The Microbial World*

*Chapter 6: Multicellular Primary Producers: Seaweeds and Plants*

*Chapter 7: Marine Animals without a Backbone*

*Chapter 8: Marine Fishes*

*Chapter 9: Marine Reptiles, Birds and Mammals*

Unit Three: Putting It All Together: Marine Ecosystems

*Chapter 10: An Introduction of Marine Ecology*

*Chapter 11: Between the Tides*

*Chapter 12: Estuaries: Where Rivers Meet the Sea*

*Chapter 14: Coral Reefs*

Unit four: Humans and the Sea

*Chapter 17: Resources from the Sea*

*Chapter 18: The Impact of Humans on the Marine Environment*

*Chapter 19: The Oceans and Human Affairs*