

**Program: Tropical Marine Ecology and Conservation**  
**Location: CIEE Research Station Bonaire**  
**Course Title: Advanced Scuba**  
**Course Instructor: Caren Eckrich, MS; Rita Peachey, PhD**  
**Dive Instructor: Anouschka van de Ven, BA**  
**Contact Hours: 15**  
**Credit Hours: 1 semester/1.5 quarter**

### **Course Description**

Students will expand their understanding of scuba diving beyond the recreational level in order to participate fully in the scientific dive program in Bonaire. Students will learn techniques that will improve their diving skills and they will learn to respond to medical emergencies in or out of the water. By completing the course; students will gain certifications in Open Water Diving, Advanced Open Water Diving, Rescue Diving, Emergency First Responder, and Diver's Alert Network Oxygen First Aid.

### **Learning Objectives**

Upon completion of the course students will have:

- Developed problem management, water safety, and scuba equipment handling as applied to research diving.
- Mastered scuba skills and knowledge essential to participation in any project involving research diving.

### **Course Prerequisites**

Open water scuba certification or PADI referral, AAUS medical exam, DAN diving insurance

### **Course Requirements**

Lectures and lab are complimentary therefore both lecture and lab attendance are mandatory. You are responsible for everything covered, discussed, and displayed in class and in the field. Students who miss a lecture will not be allowed to participate in the following lab/dive. All assigned readings are available as PDF files on class share and most of the readings are in the library here at CIEE Bonaire. Readings are fundamental to the success of this course and I will assume that you have read them prior to class.

### **Textbooks**

Additional handouts may be distributed during class

- PADI Adventures in Diving
- PADI Rescue Manual
- Emergency First Response Participant Manual (CPR, 1<sup>st</sup> Aid.); Provided
- DAN Oxygen Provider Participant Manual; Provided
- Optional: PADI Diving Encyclopedia

### **Methods of Instruction**

Lectures, Classroom and in-water skills practice

**Assignments:** Assignments are due at the beginning of class on the date assigned or at any point prior to that time. **Late assignments will be marked down 10% per day.**

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**Skills Assessment:** Diving Skills such as buddy check, entry, buoyancy, safety, navigation, communication, and exiting will be evaluated during a dive.

**Academic Honesty:**  
Students are expected to adhere to CIEE Research Station Bonaire's Academic Honesty Policy. Students found violating the conditions of academic honesty are subject to receiving a "F" for the course. The violation will also be reported to the Director of CIEE Research Station Bonaire, Dr. Rita Peachey, and may be documented on your permanent record at your home institution.

- Certifications:**
- Open Water
  - [Advanced Training \(Deep Diving, Navigation, Night Diving, Boat Diving, Peak Performance Buoyancy\).](#)
  - [Rescue](#)
  - [Emergency First Response \(CPR/First Aid\)](#)
  - [DAN Oxygen](#) for scuba diving emergencies

**Assessment and Final Grade**

Attendance and Participation		25%
EFR Exam	5%	
DAN oxygen Exam	5%	
Rescue exam		5%
Midterm Skills Assessment		20%
Final Skills Assessment	20%	
Final Exam	20%	

**Schedule**

	Lecture:	Lab 1:	Lab 2:	Readings:
Jan 18	OW Exam, Paperwork			
Jan 19	Orientation	Swimming evaluation Skills Dive 1	Skills Dive 2	
Jan 20	EFR Primary Care	Primary Care Skills, Skills Dive 3	Skills Dive 4	EFR Participant Manual Primary Care
Jan 21	EFR Secondary Care Boat Diving	EFR Second. Care Skills	Boat Dive	EFR Part. Man – Secondary Care
Jan 22	Night Diving DAN Oxygen	DAN oxygen skills	Night Dive	Adventures in Diving Night Chapter DAN oxygen participant manual
Jan 23	Peak Perf. Buoyancy UW Navigation	Bouyancy Dive	UW Navig. Dive	Adventures in Diving Peak Perf. Bouy. Adv. In Diving – UW Navigation
Jan 26	Rescue Diving 1 & 2 DAN oxy. & EFR exam	Rescue skills 1 & 2	n/a	Rescue Diving manual chap. 1 & 2
Jan 27	Rescue 3 & 4	Rescue skills 3 & 4	n/a	Rescue Diving manual chap. 3 & 4

Jan 28	n/a	n/a	n/a	
Jan 29	Rescue 5	Rescue 4 & 5 Skills	n/a	Rescue Diving manual chap. 5
Jan 30	Deep diving Rescue Exam	Deep dive	n/a	Adv. In Diving - Deep
Feb 10	Chamber	n/a	n/a	Handout?
Feb 24	No class	No class	No class	
Mar 10	n/a	n/a	n/a	
Mar 24	n/a	n/a	n/a	
Apr 7	n/a	n/a	n/a	
Apr 28	Final Exam	n/a	n/a	