

## TCC Environmental Institute Introduction to Professional Diving PEN 2136C at FAMU Aquatics room 216



Objective: People who want to step beyond recreational

compressed-gas diving and work underwater must have a greater appreciation of the underwater environment, it's inhabitants and the life-support technology that enables people to perform meaningful tasks therein. This multidisciplinary course is designed to expose students to the fundamentals of the hydrosphere (physics & oceanography), the human response to that environment (physiology & medicine), the living occupants that live within (biology), and the tools (technology) available to successfully work in this aquatic world. Students will become qualified as a SCUBA open circuit air & Nitrox diver and become familiar with surface-supplied air, back & side-mount diving, ROV and closed circuit rebreather diving.

Expectations: Applicants must be comfortable in the water and have no contraindicated (to diving) medical problems (resolved by a medical review at the first class). Optional certification from a NAUI at the advanced level is available with 6 additional dives. This course is offered in the Tallahassee area taking advantage of unique regional resources. Textbook: NOAA ebook (hard copy or CD-ROM version). Term Paper: (25%) Topic: Compressed-gas diving related topic of your choice. Paper to be 5-10 pages double spaced (12 pt.) with at least 5 text based references (no www references). Outline due on week 4 for pre-approval. Attendance in pool and lecture is required for optional certifications. Unexcused absence will be reflected in the loss of participation grade at a rate of 5% per class missed.







ADA standard statement: Diving is considered a hazardous activity requiring good health and sensory capacity. Please contact us for any special requirements. Students are expected to comply with the Student honor code as described in the student handbook. Instructor reserves the right to change schedule/contents.

Date (v	wk) Topic	Reading	Practical LAB A&B	Who
01/07	Intro, paperwork, Risk/M	NOAA Ch #15	pool 1: swim test	Young/Stanton/staff
01/14	The Diving Environment	NOAA Ch #1, 18	pool 2: skin & rescue	Young
01/21	History of Diving	NOAA Ch#2, 16	pool 3: scuba skills	Stanton
01/28	Diving Life-Sup. Tech.	NOAA Ch#3	pool 4: scuba skills	Staff
01/31	Sat Skin Dive Field Pract	ical	Ichnetucknee River	Staff
02/04	Diving Physics	NOAA Ch#4	pool 5: scuba skills	Hess
02/11	Direct Effects of Pressure	NOAA Ch#19	pool 6: rescue/nav skill	Young
02/18	Indirect Effects Pressure	NOAA Ch#5, 11	pool 7: scuba skills	Stanton
02/25	Dive Plan & Profiling	NOAA Ch#9, 17	pool 8: proficiency test	Young
03/04	Marine Life & Conser.	NOAA Ch#7, 8	pool 9: scuba skills	Stanton
03/07	Sat Spring Dive Field Pra	actical	Morrison Springs	Staff
03/09-13 Spring Break Optional certification advanced dives				
03/18	Nitrox & other options	NOAA Ch#12	pool 10: Adv. skills	Stanton
03/25	Dangers Above/Below	NOAA Ch#10	pool 11: Adv. skills	Stanton
04/01	Advanced Diving Tech	NOAA Ch#13	pool 12: Adv. skills	Stanton
04/08	Alternatives to SCUBA	NOAA Ch#6	pool 13: Adv. skills	Stanton
04/15	Rebreathers	NOAA Ch#14, 20	pool 14: Adv. skills	Stanton
04/18 Sat Ocean Dive Field Practical		Panama City ?	Stanton/staff	
04/22	Future of Diving	(Chamber dive?)	Exam Review & Papers	due staff
04/29	Final Exam			10/25/2014grs