

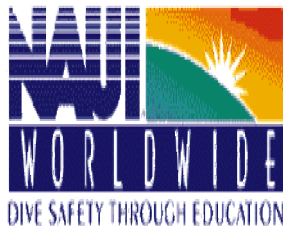


TCC Environmental Institute Introduction to Professional Diving PEN 2136C at FAMU Aquatics room 006



Objective: People who want to step beyond recreational compressed-gas diving and work underwater must have a greater appreciation of the underwater environment, its 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 National Training agency at the Advanced level is available but requires 6 additional dives. This course is offered in the Tallahassee area taking advantage of unique regional resources. Textbook: most recent 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 is required for certifications. Unexcused absence will be reflected in the loss of participation grade at a rate of 5% per class missed.



Grade Policy: A= 90-100% B=80-89%
 C=70-79% D= 60-69%
 F= below 60%
 MID TERM = 25% & Final Exam = 25%
 Participation (quizzes & Other) = 25%
 Academic Paper = 25%



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.

<u>Date (wk)</u>	<u>Topic</u>	<u>Reading</u>	<u>Practical</u>	<u>Who</u>
08/27	Intro, paperwork, Risk As	NOAA Ch #15	pool 1: swim test	Stanton/Young/Olaves
09/03	The Diving Environment	NOAA Ch #1, 18	pool 2: skin & rescue	Young/Olaves
09/10	History of Diving	NOAA Ch#2, 16	pool 3: scuba skills	Young/Olaves
09/17	Diving Life-Sup. Tech.	NOAA Ch#3	pool 4: scuba skills	Young/Olaves
09/20	Sat Skin Dive Field Practical		Ichnetucknee River	Staff
09/24	Diving Physics	NOAA Ch#4	pool 5: scuba skills	Hess
10/01	Direct Effects of Pressure	NOAA Ch#19	pool 6: rescue/nav.	Stanton
10/08	Indirect Effects Pressure	NOAA Ch#5, 11	pool 7: scuba skills	Stanton
10/15	Dive Plan & Profiling	NOAA Ch#9, 17	pool 8: proficiency test	Young
10/19	Sat Spring Dive Field Practical		Morrison Spr. TBA	Staff
10/22	Marine Life & Conser.	NOAA Ch#7, 8	pool 9: Adv. Skills	Stanton
10/29	MID TERM & Nitrox	NOAA Ch#12	pool 10: Adv. Skills	Young/Olaves
11/05	Dangers Above/Below	NOAA Ch#10	pool 11: Adv. skills	Young/Olaves
11/12	Advanced Diving Tech	NOAA Ch#13	pool 12: Adv. skills	Young/Olaves
11/19	Alternatives to SCUBA	NOAA Ch#6	pool 13: Adv. skills	Young/Olaves
11/25	Thanksgiving Week off	Optional Advanced	Diver Certification Dives	TBA
12/03	Rebreathers	NOAA Ch#14, 20	pool 14: Adv. skills	Stanton
12/06	Sat Ocean Dive Field Practical		Panama City ?	Staff
12/10	Future of Diving	(Chamber visit)	Exam Review & Papers	due
12/17	Final Exam			8/06/2014grs