

# *Advanced Open Water SCUBA with Enriched Air Nitrox and Rescue Diver*

FAS#### (3 credits) Spring, 2012

[http://www.sfrc.ufl.edu/Class/scuba/Advanced\\_openwater.html.edu](http://www.sfrc.ufl.edu/Class/scuba/Advanced_openwater.html.edu)

## **Course Description**

This course provides advanced level recreational SCUBA training and experience in accordance with National Association of Underwater Instructors (NAUI) standards.

## **Instructors and Qualifications**

*Doug Marcinek  
Course Coordinator  
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352.273.3626  
Available by appointment  
NAUI Course Director  
IANTD Technical Instructor*

*Stephen Larsen  
Pool Instructor  
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NAUI Instructor*

*Cheryl Thacker  
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UF Diving Safety Officer  
NAUI Course Director*

*Chad Welch  
Pool Instructor  
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352.273.3626  
Available by appointment  
NAUI Instructor Trainer*

## Student Learning Outcomes

At the end of this course, each student will:

- Have in depth knowledge of the science and technology applicable to SCUBA.
- Be able to plan and safely execute complex, EANx SCUBA dives independently.
- Have a high proficiency in advanced SCUBA skills using a variety of SCUBA technologies.
- Upon the discretion of their instructor have internationally recognized Advanced Open Water, Rescue Diver, and Enriched Air Nitrox SCUBA certifications (NAUI).

## Course Meeting Times and Section Instructors

<u>Lecture</u>	Newins-Ziegler 112	
Section xxxx	6:15pm-8:10pm	Wednesday
Doug Marcinek		

<u>Lab</u>	Florida Pool	
Section xxxx	7:20pm-9:10pm	Thursday
Doug Marcinek, Stephen Larsen, Cheryl Thacker, Chad Welch		

## Required Texts/Readings/ Equipment

1. NAUI Advanced Open Water Textbook
2. NAUI Rescue Diver Textbook
3. NAUI Master Diver Textbook
4. NAUI Nitrox Diver Student Kit which includes:
  - a. NAUI Nitrox Textbook
  - b. NAUI Nitrox 32 Dive Tables
  - c. NAUI Nitrox 36 Dive Tables
  - d. NAUI OceanX Calculator
5. Mask, Snorkel, Fins, and Neoprene dive booties (required by 1<sup>st</sup> week of pool)
6. Watch- water proof to 50 meters (required by 1<sup>st</sup> week of pool)
7. Dive Slate w/ Pencil (required by 1<sup>st</sup> week of pool)
8. Line cutting device (required for open water dives)
9. Dive light and cylume stick for night dive (may be rented at time of dive)

### ***Recommended Reading***

1. NOAA Diving Manual

## Class Format and Policies

FAS#### is an intensive lecture/lab/certification course that will result in internationally accepted Advanced Open Water SCUBA certification. Due to the intrinsic risks associated with SCUBA and the rapid pace of skill and knowledge development it is essential that students attend every lecture and lab session.

### **Prerequisite to Participation in FAS#### Advanced Open Water SCUBA**

Students must already hold a Basic Open Water SCUBA certification from a recognized certification agency. Students must bring a copy of their certification card(s) (front and back) with them to the first class for inclusion in their student records folder.

The first lab session will consist of a basic SCUBA skills evaluation and completion of a medical history questionnaire. Students must successfully complete the basic SCUBA skills evaluation and not have any medical contraindications to participation in SCUBA activities in order to continue in the course. The basic SCUBA skills evaluation consists of the following:

- Correctly assemble SCUBA equipment.
- Giant stride entry into the water and establishment of neutral buoyancy.
- Flooding and removal and replacement of the mask.
- Removal, recovery, and clearing of the primary second stage regulator.
- Removal and replacement of the SCUBA unit while underwater.
- Proper exit from the water and break-down of SCUBA equipment.

The diving medical history questionnaire and information on contraindications to participation in SCUBA diving activities can be found at <http://www.sfrc.ufl.edu/Class/scuba/NAUI%20Medical%20Evaluation.pdf>.

### **Course Fee**

Course Fee: \$600.00

Due: **02 September 2011**

An additional **\$50 per week late fee** will be assessed for any fees paid after 02 September 2011. Failure to pay ALL course fees will result in non-certification and student records being flagged.

Payment Information:

Payments will be made online following the link to DoCE on the UF SCUBA website. [http://www.sfrc.ufl.edu/Class/scuba/Advanced\\_openwater.html](http://www.sfrc.ufl.edu/Class/scuba/Advanced_openwater.html)

Make sure that you pay for the proper course- **XXX####**.

VISA, Mastercard, and American Express are accepted. Bright Futures will not cover this fee.

Included in the fee:

- NAUI Active registered instructors for all water activity
- NAUI Certification fees and certification cards (Advanced, Rescue, and Nitrox)
- Open water site entrance fees and boat fees

- 24-25 September 2011                      Local Springs Dives
- 22-23 October 2011                      Florida Keys Boat Dives
- SCUBA equipment used for the lab and open water dives:
  - Regulator
  - Buoyancy Control Device
  - Weight Belt
  - Dive Bag
  - Underwater Compass
  - SCUBA Cylinders and safe breathing air
  - Wet Suit (open water dives only)

### **Equipment Notes:**

- UF stocks small through XL wetsuits. UF does not stock any custom suits. If you do not fit in a standard suit you will be required to provide your own. Selection is limited and provision of a suit is not guaranteed. Suits are checked out at gear check-out on a first come first serve basis.
- You will be provided an Equipment Standards of Care form which you will be required to sign. This form outlines the care we expect you to take when using the University of Florida SCUBA equipment as well as fees assessed for required repair or replacement of equipment resulting from misuse or neglect.

### **Lecture**

Lecture will be held on Wednesdays from 6:15pm-8:20pm in Newins-Ziegler Rm. 112. Lecture material will follow the schedule posted below in the “Schedule of Class Topics”. Students are expected to complete any readings and homework prior to lecture. Attendance is mandatory and will be taken through various methods. Known excusable conflicts must be worked out with your instructor prior to the absence. Quizzes will cover lecture and reading material. There will be no make-ups for quizzes. Quizzes missed for a valid UF excuse will be dropped. Homework turned in late will receive a zero grade and must be turned in or will result in non-certification.

### **Lab**

Pool sessions will be held on Thursdays at Florida Pool. Pool sessions will follow the schedule posted below in the “Schedule of Class Topics”. Attendance is mandatory. Known excusable conflicts must be worked out with your instructor prior to the absence and a make-up session scheduled.

### **Certification/Open Water**

In order to be eligible for certification students must:

- a. Attend all lecture and pool sessions.
- b. Score  $\geq 80\%$  on the final examination and be coached up to 100% to the satisfaction of your instructor.
- c. Be coached up to 100% on the decompression portions of all quizzes and exams to the satisfaction of your instructor.
- d. Complete the class with a minimum overall grade of 70%.

- e. Score  $\geq 80\%$  on all skill evaluations.
- f. Pay all fees.
- g. Successfully complete all open water proficiency dives.
- h. Be recommended by your instructor as a safe and competent diver.

### Cell Phones

Cell phones are to be turned off during all class periods. Cell phone use, including texting will not be tolerated. Students using cell phones during class may be asked to leave and will receive a 50 point grade deduction.

### Assignments

- There are weekly quizzes and homework assignments in the lecture. Lecture attendance is mandatory and NO make-ups will be allowed. All quizzes and exams are cumulative. Quizzes may be administered every week. Exams are scheduled for:
 

20 February 2012	Exam 1
09 April 2012	Exam 2
- The laboratory pool sessions utilize progressive skill development. Pool attendance is mandatory. Known conflicts must be worked out with your instructor in advance and a makeup session scheduled. Pool skills will be evaluated for proficiency.
- This course includes two weekends of SCUBA proficiency dives. These dives are scheduled for:
 

11-12 February 2012	Local Springs Dives
16-18 March 2012	Florida Keys Boat Dives
23-24 March	Rescue Dives

Attendance at all dive events is required for certification. Missing or failing to complete any portion of these dives will result in non-certification. Make-ups will be scheduled on a case by case basis and will incur additional fees. Transportation, food, and lodging are the responsibility of the student and are not included in the course fees.

### Evaluation of Student Learning

Quizzes/ HW	200	Points
Exam 1	150	Points
Exam 2	150	Points
Skill Evaluations	400	Points
Instructor Discretionary/ Safety	100	Points
Attendance		
Unexcused Lecture Absence	-50	Points
Unexcused Pool Absence	-50	Points
Unexcused Pool Tardiness	-25	Points

Instructor Discretionary/ Safety Points are points that can be deducted from a student's grade for repeated unsafe behavior or repeated abuse or misuse of University of Florida equipment, be it intentional or not.

A student may check their point standing at any point during the semester with their pool instructor.

## Grading Scale

Points: 900-1000 870-899 800-869 770-799 700-769 670-699 600-669 <600  
Grade: A B+ B C+ C D+ D E

*Additional information on grading may be found at:*

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

## Schedule of Class Topics

### **Week Starting Monday 9 January 2012**

Lecture: Introduction, Equipment

Lab: Skills Evaluation, Buoyancy, Propulsion Techniques

### **Week Starting Monday 16 January 2012**

Lecture: Advanced SCUBA Physics

Lab: Full Face Masks and Communications w/ S&R

### **Course Fees Due to DoCE by Friday 20 January 2012**

### **Week Starting Monday 23 January 2012**

Lecture: Advanced SCUBA Physiology

Lab: Double Cylinders w/ transecting

### **Week Starting Monday 30 January 2012**

Lecture: Advanced SCUBA Decompression Theory

Lab: Sidemount Cylinders w/ tool usage

### **Week Starting Monday 6 February 2012**

Lecture: Deep/ Night and Limited Visibility/ Search and Recovery

Lab: Advanced Navigation

Open Water: Local Springs Proficiency Dives

### **Week Starting Monday 13 February 2012**

Lecture: Environment/ Overheads

Lab: Search and Recovery Techniques

### **Week Starting Monday 20 February 2012**

Lecture: EXAM 1

Lab: Overhead Environment Techniques

### **Week Starting Monday 27 February 2012**

Lecture: Enriched Air Nitrox

Lab: Advanced Task Loading

### **Week Starting Monday 12 March 2012**

Lecture: Advanced Enriched Air Nitrox

Lab: Advanced Task Loading  
Open Water: Florida Keys Proficiency Dives

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**Week Starting Monday 19 March 2012**

Lecture: Enriched Air Nitrox  
Lab: Advanced Task Loading

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**Week Starting Monday 26 March 2012**

Lecture: First Aid  
Lab: Advanced Task Loading  
Open Water: Gulf of Mexico Proficiency Dives w/ AAUS Seminar

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**Week Starting Monday 2 April 2012**

Lecture: CPR and Oxygen Administration  
Lab: Rescue Techniques

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**Week Starting Monday 9 April 2012**

Lecture: Exam 2  
Lab: Advanced Task Loading

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**Week Starting Monday 16 April 2012**

Lecture: Exam Review and Certification Paperwork  
Lab: Advanced Task Loading  
Open Water: Springs Proficiency Rescue Dives

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## Additional References

UF SCUBA Web Site	<a href="http://www.scuba.ufl.edu">www.scuba.ufl.edu</a>
UF Diving Science and Safety Program Web Site	<a href="http://www.ehs.ufl.edu/Dive">www.ehs.ufl.edu/Dive</a>
AUI Web Site	<a href="http://www.nauti.org">www.nauti.org</a>
IANTD Web Site	<a href="http://www.iantd.com">www.iantd.com</a>
Diver's Alert Web Site	<a href="http://www.dan.org">www.dan.org</a>

## Other Information

### Academic Honesty, Software Use, UF Counseling Services, Services for Students with Disabilities

In 1995 the UF student body enacted an [honor code](#) and voluntarily committed itself to the highest standards of honesty and integrity. When students enroll at the university, they commit themselves to the standard drafted and enacted by students.

In adopting this honor code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the university community. Students who enroll at the university commit to holding themselves and their peers to the high standard of honor required by the honor code. Any individual who becomes aware of a violation of the honor code is bound by honor to

take corrective action. The quality of a University of Florida education is dependent upon community acceptance and enforcement of the honor code.

**The Honor Pledge: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.**

On all work submitted for credit by students at the university, the following pledge is either required or implied: "**On my honor, I have neither given nor received unauthorized aid in doing this assignment.**"

The university requires all members of its community to be honest in all endeavors. A fundamental principle is that the whole process of learning and pursuit of knowledge is diminished by cheating, plagiarism and other acts of academic dishonesty. In addition, every dishonest act in the academic environment affects other students adversely, from the skewing of the grading curve to giving unfair advantage for honors or for professional or graduate school admission. Therefore, the university will take severe action against dishonest students. Similarly, measures will be taken against faculty, staff and administrators who practice dishonest or demeaning behavior.

Students should report any condition that facilitates dishonesty to the instructor, department chair, college dean or Student Honor Court.

*(Source: 2010-2011 Undergraduate Catalog)*

It is assumed all work will be completed independently unless the assignment is defined as a group project, in writing by the instructor.

This policy will be vigorously upheld at all times in this course.

#### **Software Use:**

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

#### **Campus Helping Resources**

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, [www.counseling.ufl.edu/cwc/](http://www.counseling.ufl.edu/cwc/)*

Counseling Services

Groups and Workshops

Outreach and Consultation

Self-Help Library

Training Programs

Community Provider Database

- *Career Resource Center*, First Floor JWRU, 392-1601, [www.crc.ufl.edu/](http://www.crc.ufl.edu/)

### **Students with Disabilities**

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues.

0001 Reid Hall, 352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)