

FAS4932 – Topics In Fisheries: Advanced Open Water SCUBA Diver with  
Enriched Air Nitrox and Rescue and/or UF Science Diver  
Fall 2014

### 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

<p><i>Doug Marcinek</i> Program Coordinator <a href="mailto:marcinek@ufl.edu">marcinek@ufl.edu</a> 352.273.3626 Available by appointment NAUI Course Director NAUI Technical Instructor IANTD Technical Instructor</p>	<p><i>Ken Sallot</i> Lecture coordinator, Pool Instructor <a href="mailto:kens@ufl.edu">kens@ufl.edu</a> 352.273.3626 Available by appointment NAUI Technical Instructor SDI/TDI Technical Instructor</p>	<p><i>Cheryl Thacker</i> Lecture, Pool Instructor <a href="mailto:cthacker@ehs.ufl.edu">cthacker@ehs.ufl.edu</a> 352.392.1661 Available by appointment UF Diving Safety Officer NAUI Course Director</p>
<p><i>Mike Kutyna</i> Lecture, Pool Instructor <a href="mailto:mkutyna@gmail.com">mkutyna@gmail.com</a> 352.273.3626 Available by appointment NAUI Instructor</p>	<p><i>Ian Segebarth</i> Lecture, Pool Instructor 352.273.3626 Available by appointment NAUI Instructor</p>	<p><i>Hannah Herrero</i> Pool Instructor 352.273.3626 Available by appointment NAUI Instructor</p>
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	<p><i>Travis Lowke</i> Lecture, Pool Instructor 352.273.3626 Available by appointment NAUI Instructor</p>	

## Objectives

Upon successful completion of this course, each student will:

- Have a working knowledge of the science and technology applicable to SCUBA.
- Be able to safely plan and execute complex SCUBA dives independently.
- Upon the discretion of their instructor, earn internationally recognized Advanced Scuba Diver, Scuba Rescue Diver, and Enriched Air Nitrox SCUBA certifications through the National Association of Underwater Instructors (NAUI).
- Have been trained in NAUI First Aid (includes CPR, AED and O2 administration).

## Course Meeting Times and Locations

### Lecture

Location: MCCB 3124

Meeting time: Wednesdays, periods 11-E1 (6:15-8:10)

### Lab

Location: Florida Pool

Meeting time: Thursdays, periods E1-E2 (7:20-9:10)

## Required Texts / Readings / Equipment

1. NAUI Rescue Diver Book (\*required by 2<sup>nd</sup> week of class)
2. NAUI First Aid Student Kit (\*required by 2<sup>nd</sup> week of class)
3. NAUI Master Scuba Diver Textbook (\*required by 3<sup>rd</sup> week of class)
4. NAUI Nitrox Diver Student Kit (\*required by 5<sup>th</sup> week of class) which includes:
  - a. NAUI Nitrox Textbook
  - b. NAUI Nitrox 32 Dive Tables
  - c. NAUI Nitrox 36 Dive Tables
  - d. NAUI OceanX Calculator
5. NAUI Dive Tables (\*required by 3<sup>rd</sup> week of class, standard AIR tables)
6. Mask, Snorkel, Fins and neoprene dive booties (by 1<sup>st</sup> week of pool)
7. Watch – Water resistant to 50 meters (required by 1<sup>st</sup> week of pool)
8. Dive Slate w/Pencil (required by 1<sup>st</sup> week of pool)
9. Line Cutting Device (required for openwater dives)

10. Dive light and cylume stick for night dive
11. Surface Marker Buoy and Reel/Spool
12. Gear bag

## **Class Format and Policies**

### **Attendance Policy**

Attendance is mandatory.

FAS4932 is an intensive lecture/lab/certification course that will result in internationally accepted Advanced Scuba Diver 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.

**Lecture:** If you are sick, please contact the lecture coordinator prior to the class in order to get a copy of the notes and readings. Some sessions may use lecture capture technology (mediasite), and may be made up by watching the capture.

**Lab:** Because the skills used in the open water dives are first taught and practiced in the pool, a missed lab section may mean that a student is unable to participate in a check-out dive. Missed lab sections may be made up on a Tuesday night at the discretion of the instructor.

**Check-out dives:** In order to earn certification students must complete all of the scheduled check-out dives. A missed check-out dive may be made up at the discretion of the instructor for an additional fee.

### **Prerequisite to Participation in 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) (both front and back) to the first class for inclusion in their student records folder. Students must bring their SCUBA log books for review of recent diving activity.

### **Prerequisite to Participation in UF Scientific Diver**

Students must hold Advanced Open Water, Rescue, and Nitrox certification from a recognized certification agency. Students currently enrolled in the Advanced Open Water SCUBA course may enroll in the UF Scientific Diver SCUBA course by paying the appropriate additional fee. Students must bring a copy of their certification card(s) (both front and back) to the first class for inclusion in their student records folder. Students must bring their SCUBA log books for review of recent diving activity. Students must also have an AAUS cleared Scuba Medical examination.

## Skills Evaluation

The first lab session will consist of a swim evaluation, as required for the Scientific Diver rating, and completion of a medical history questionnaire. Students must successfully complete the swim evaluation and not have any medical contraindications to participation in SCUBA activities in order to continue in the course.

The swim evaluation consists of the following:

- Swim 400 yards. Students seeking Scientific Diver status must complete the 400 yard swim in under 12 minutes.
- 25 yard underwater swim in one breath.
- Tow another swimmer 25 yards.
- Tread water for 10 minutes with the last two minutes keeping hands out of water.

The diving medical history questionnaire and information on contraindications to participation in SCUBA diving activities can be found at:

<http://www.naui.org/PDFfiles/Commonly%20Used%20Forms/NAUI%20Medical%20Evaluation%20and%20Physician%20Approval%20Form.pdf>

One of the first lab sessions will consist of a basic SCUBA skills evaluation to verify basic SCUBA competency. 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 mask.
- Removal, recovery, and clearing of the primary second stage regulator.
- Removal and replacement of the SCUBA unit while underwater (doff-n-don).
- Alternate Air Share with ascent.
- Buddy Breathing (will be taught).
- Neutral buoyancy.
- Proper exit from the water and break-down of SCUBA equipment.

On the first open water checkout dive a SCUBA competency evaluation will take place. The competency evaluation consists of the following:

- Proper gear assembly and entry.
- Mask removal/replace and clearing.
- Regulator, recovery, and clearing of the primary second stage regulator.
- Controlled Emergency Swimming Ascent (ESA)

- Neutral buoyancy.
- Alternate Air Share with ascent as both a donor and receiver.
- Doff-n-Don.
- Buddy Breathing (stationary).

### **SCUBA Knowledge Evaluation**

Students will be assigned the standard NAUI Open Water Diver Examination through eLearning in order to assess their level of basic SCUBA knowledge. As different training agencies have different standards, the sole purpose of the assignment is to gauge the depth of student knowledge. The evaluation will be scored as either “complete” or “incomplete.” Complete means the student has finished the test to the best of their ability, and that is worth 100 points towards their final grade. Incomplete means the student did not complete the exam, and will miss out on 100 points from their final grade. Failure to complete the exam will also result in a one point deduction from the classroom participation grade.

**FAILURE TO COMPLETE THE PRE-ASSESSMENT EXAM MEANS THE HIGHEST GRADE YOU CAN ACHIEVE IN THIS COURSE IS A B+.**

Lecture material presented throughout the course may be modified to remediate topic areas as determined based on the results of the exam.

### **Course Fee**

Advanced Course Fee: \$600, includes Advanced, Rescue, and Nitrox certifications.

UF Scientific Diver Course Fee: \$350, must have met the prerequisites or be enrolled in the Advanced course.

Due Date: **12 September 2014**

An additional **\$50 per week late fee** will be assessed for any fees paid after 12 September 2014. **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 which will be published in Sakai. Make sure that you pay for the proper course #. VISA, Mastercard, and American Express are accepted. **Bright Futures will not cover this fee.**

Included in the fee:

- NAUI certified instructors for all water activity
- If earned, NAUI certification fees and certification cards

- Open Water site entrance fees and boat fees
- Use of UF SCUBA Equipment (tank, regulator, BCD, weights, wetsuit) for all water activity.

### **A Word About Certification**

In order to be eligible for certification students must:

- Attend all lecture and pool sessions.
- Score >80% on all examinations and be coached up to 100% to the satisfaction of your instructor.
- Be coached up to 100% on the decompression portions of all quizzes and exams to the satisfaction of your instructor.
- Complete the class with a minimum overall grade of 70%.
- Score >80% on all skill evaluations.
- Pay all fees.
- Successfully complete all open water proficiency dives.
- Be recommended by your instructor as a safe and competent diver.

“Training is purchased, certification is earned.”

Payment of all course fees does not guarantee that you will earn certification in this course. NAUI instructors are obliged to use the “loved one” principle prior to issuing any certification. This requires that every NAUI instructor to ask the question, “do I want this person diving with my loved ones?” If the answer is no, then they should not issue that certification.

Students that exhibit unsafe behaviors and attitudes that could put themselves, or others, at risk of injury will not be certified.

### **SCUBA Equipment provided for the lab and open water dives**

- Regulator with Safe Second, Pressure Gauge, and LP Inflator Hose
- Buoyancy Control Device
- Weight Belt
- 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 custom or unusual sizes. 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.

If you own your own regulator, BCD, or wet suit, you are more than welcome to use it for the class after it has been examined and deemed appropriate for use by a staff instructor.

## **Lecture**

Lecture will be held on Wednesdays from 6:15PM to 8:20PM in MCCA 2186. 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. 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 the Florida Pool from 7:20PM until 9:10PM. 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.

## **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 they will be marked as having an unexcused absence.

## **Grading**

This is a 4000 level academic course. You will earn 3 credit hours by completing this course. Your academic grade will be based on a point system with a perfect score requiring 1000 points. The number of points you may earn:

Attendance and Classroom Participation – Up to 200 points

Examinations – Up to 400 points (pre-exam, rescue diver exam, nitrox exam, final exam)

Paper – Up to 100 points

Skill Evaluations – Up to 300 points

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

Attendance and participation: There will be a 50 point deduction for every unexcused absence. There will be a 25 point deduction for any tardiness. There will be a 25 point deduction for the first abuse of the cell phone policy, and a 50 point deduction for each subsequent abuse. There will be a one point deduction from the participation grade for not completing the pre-assessment exam.

Examinations: The pre-assessment exam is worth 100 points and is marked as either complete or incomplete. The rescue diver, nitrox diver, and final exam are worth 100 points each, and are scored based on correct and incorrect answers.

Paper: There will be an assignment to write a brief essay based upon one of the check out dives. The topic will be assigned in class. The writing assignment will not be long enough to count towards Gordan Rule designation.

Skill Evaluations: The skill evaluations are worth up to 300 points.

## Schedule of Class Topics

Lectures:

August 27	Introduction, Waivers, Syllabus, Science Diving (Test Opens)
Sept 3	Basic Review
Sept 10	Advanced Physiology
Sept 17	CPR / First Aid (Knowledge Exam Due)
Sept 24	Rescue (Rescue Exam Opens in Canvas)
Oct 1	Advanced Physics / Limited Vis / Deep Diving
Oct 8	Environment (Rescue Test Due)
Oct 15	Decompression / Recompression / Altitude
Oct 22	Nitrox (Nitrox Test Opens in Canvas)
Oct 29	Search & Light Salvage / Boating and Seamanship
Nov 5	Night Diving / Photography (Nitrox Test Due)
Nov 12	Technical Diving (Papers due) (Final Exam Opens)



Nov 19	Open Topics (presented by Dive Master Candidates)
Dec 3	Final Exam due in Canvas (Science Diver Only – Dive Safety Manual Discussion, Online dive logs due)

Labs: (Other dates added as needed)

Date	Topic
August 28	Swim Test / Gear Sizing
Sept 4	SCUBA Skills Evaluation / Buddy Breathing / Buoyancy Workshop
Sept 11	Rescue Session #1
Sept 18	O2 / 1 <sup>st</sup> Aid / Accident Management
Sept 25	Rescue Session #2
Oct 2	All in Pool-Rotations
Oct 9	All in Pool-Rotations
Oct 16	All in Pool-Rotations
Oct 23	All in Pool-Rotations
Oct 30	All in Pool-Rotations
Nov 6	All in Pool-Rotations
Nov 13	All in Pool-Rotations
Nov 20	All in Pool-Rotations

Open Water Dives:

Sept 27/28	Rescue & OW Skills Eval	Manatee Springs
Oct 4/5	Limited Vis / Deep / Navigation and Transects / Quadrats / S&S	Hudson Grotto / Venice Beach
Dec 5/7	Science Diver / Deep / Drift / Night / Wreck	Pompano

### **Additional References**

UF SCUBA Web Site

<http://www.scuba.ufl.edu>

UF Diving Science and Safety Program Web-Site

<http://www.ehs.ufl.edu/Dive>

NAUI Web Site

<http://www.naui.org>

Diver's Alert Web Site

<http://www.dan.org>

**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/)