

# DIVE - DIVING TECH AND METHODS (DIVE)

---

## DIVE 250 SCUBA Diving I

**Credits 4. 3 Lecture Hours. 3 Lab Hours.** Fundamental academic knowledge and practical application of SCUBA diving practices and theory; introduction to diving tables and diving physiology. **Prerequisite:** Must complete a medical statement showing no contraindications to diving, or have a recreational SCUBA diver's physical examination.

## DIVE 251 SCUBA Diving II

**Credits 3. 2 Lecture Hours. 2 Lab Hours.** Methods to promote safe, self-reliant diving and improve the diver's comfort, coordination and strength in the water; to build competency in dive planning and organization. **Prerequisite:** Must complete a medical statement showing no contraindications to diving, or have a recreational SCUBA diver's physical examination; open water certification from a nationally recognized agency; Divers Alert Network (DAN) insurance or equivalent.

## DIVE 260 Scuba Diving III

**Credits 4. 3 Lecture Hours. 3 Lab Hours.** Methods to promote safe, self-reliant diving and improve the diver's comfort, coordination and strength in the water; build competency in dive planning and organization; practice accident prevention and effective accident management. **Prerequisites:** Must complete a medical statement showing no contraindication to diving or have a recreational scuba diver's physical examination; open water certification from a nationally recognized training agency; Diver's Alert Network (DAN) diving accident insurance or equivalent.

## DIVE 330 Rescue Diving

**Credits 3. 2 Lecture Hours. 2 Lab Hours.** Relates skills necessary to perform basic life support, administer dive first aid, evacuate victim, assist and rescue other divers in water; illustrate proper dive planning; practice accident prevention and effective accident management. **Prerequisites:** Must complete a medical statement showing no contraindications to diving, or have a recreational SCUBA diver's physical examination; certification as a SDI SCUBA diver or equivalent; Divers Alert Network (DAN) diving accident insurance or equivalent.

## DIVE 331 Alternative Diving Technology

**Credits 3. 2 Lecture Hours. 2 Lab Hours.** Illustrates the realities of operating in the scientific, public safety and military diving disciplines; practice real world training scenarios involving multiple aspects of each of the three fields. **Prerequisites:** Must complete a medical statement showing no contraindications to diving, or have a recreational SCUBA diver's physical examination (or AAUS physical if rating with AAUS); certification as an Advanced and Rescue Diver or equivalent; Divers Alert Network (DAN) diving accident insurance or equivalent; junior or senior classification or approval of instructor.

## DIVE 357 Dive Leadership – Divemaster

**Credits 4. 3 Lecture Hours. 3 Lab Hours.** Examines divemaster level dive knowledge, dive leadership theory and application, presentation and instructional skills, physical diving skills, logistics and planning, risk management and emergency response, and operational execution; develops a multi-environment capable diving leader. **Prerequisites:** Minimum of 18 years of age; current certification in NAUI First Aid for Dive Professionals or Equivalent; current certification in NAUI Oxygen Provider or equivalent; a minimum of verifiable 60 logged open water scuba dives with a minimum of 30 hours bottom time, dives shall be varied in environment, depth, and activities; verification of good physical condition as documented by a medical examination and unconditional approval in the last 12 months; water skills and ability equivalent to that of a NAUI Assistant Instructor; must be certified as a NAUI Master Scuba Diver, NAUI Scuba Rescue Diver, NAUI Advanced Open Water Diver and NAUI Nitrox diver, or their equivalent; divers with evidence of equivalent training experience must pass the NAUI Master Scuba Dive exam prior to beginning of the course; junior or senior classification or approval of instructor.

## DIVE 410 AAUS Scientific Diving

**Credits 4. 3 Lecture Hours. 3 Lab Hours.** Information and training necessary to qualify as Scientific Divers under the auspices of American Academy of Underwater Sciences and the Scientific Diving Program; implementation of project design, advanced study of diving physics and physiology, diving risk management and risk mitigation. **Prerequisites:** Must have a current Science Diving physical examination; Master Level Diver's Alert Network (DAN) diving accident insurance or equivalent; open water, advanced open water certifications and Nitrox, or approval of instructor; current certification in First Aid, AED, CPR and Emergency Oxygen Administration; Scientific Diving Swim Test.

## DIVE 411 Offshore Research Diving

**Credits 4. 3 Lecture Hours. 4 Lab Hours.** Application of research methods and techniques to collect data using scuba diving; opportunities to dive with non-Texas A&M-Galveston dive programs, increase depth ratings under American Academy of Underwater Sciences and Texas A&M-Galveston auspices and to conduct safe, efficient dives to collect and record data underwater. **Prerequisites:** DIVE 410 or approval of instructor; must hold nitrox certification, must be active Scientific Divers under Texas A&M University Galveston auspices; current and complete Texas A&M University Galveston Science Diving physical examination on file; minimum of 12 logged dives in the previous 12 months; current certification in First Aid, AED, O2 Administration and CPR, including hands-on skill evaluations, prior to any open-water work; Master Level or higher Divers Alert Network (DAN) diving accident insurance or equivalent; see the Texas A&M University Galveston Diving Manual for additional specifications.

## **DIVE 430 Techniques in Overhead Environment Diving**

**Credits 4. 3 Lecture Hours. 3 Lab Hours.** Instruction in overhead environment diving, technical diving skills, technical diving configurations, dive risk assessment; emphasis on building competency in dive planning, techniques and execution. **Prerequisites:** DIVE 410 or proof of equivalent experience with approval of instructor; must complete a medical statement showing no contraindication to diving or have a recreational scuba diver's physical examination; open water certification from a nationally recognized training agency; Master level or higher or equivalent Diver's Alert Network (DAN) diving accident insurance; 25 logged dives; SDI Deep Diver or equivalent certification or proof of equivalent experience with approval of instructor.

## **DIVE 489 Special Topics In...**

**Credits 0 to 4. 0 to 4 Other Hours.** Selected topics in an identified area of diving technology and methods. **Prerequisite:** Junior or senior classification or approval of instructor.

## **DIVE 491 Research**

**Credits 0 to 4. 0 to 4 Other Hours.** Research conducted under the direction of faculty member in the Dive program. May be taken three times for credit. **Prerequisites:** Junior or senior classification and approval of instructor.