Advanced QUEST (MARE 364) Overview:

- QUEST (Quantitative Underwater Ecological Surveying Techniques) is a 2-week field course held annually during the last 2 weeks of May on the island of Hawai’i, and focuses on ecological monitoring of coral reefs using SCUBA.

- The program takes place at a field camp located on the west side of the Big Island of Hawai’i. Students stay in the field for the entire 2 weeks, utilizing SCUBA to learn surveying techniques among the coral reefs along the southern rim of Kealakekua Bay.

- QUEST is a program of the University of Hawai’i Marine Option Program (MOP), and earns credit through the University of Hawai’i at Hilo’s Marine Science Department. 24 students are accepted annually for QUEST (MARE 264) and 6 students are accepted to return as Team Leaders for Advanced QUEST (MARE 364).

- Students in QUEST learn commonly utilized near-shore underwater ecological surveying techniques and then apply them in the field using SCUBA as a research tool. They will be introduced to a variety of surveying techniques including visual surveying of fishes, surveying of benthic invertebrates, and photographic surveying of corals and other invertebrates. In addition to training in coral reef surveying techniques, students will review the identification of common Hawaiian reef invertebrates, fishes and seaweeds, and lectures will cover basics in experimental design, statistical analysis, data reduction and graphic representation. Finally, data will be reduced, analyzed, and presented in both an oral and written report.

- Students who have completed MARE 264 with at least a "B" grade may apply for admission to Advanced QUEST. Accepted applicants will be assigned as dive team leaders for the basic QUEST course (MARE 264) and will be trained in team leadership and management skills, and will work with the diving safety officer and course faculty to monitor the safe diving practice of each member of their team, supervise the dive team’s recording of data in the field as well as their reduction and analysis, anchor the team’s written and oral presentations, and provide leadership for the team in all aspects of the QUEST experience. Team leaders will also assist in training students in identification of organisms.

- Students involved in QUEST must have authorization as a UH Scientific Diver in Training before the start of the course (contact the UH Hilo Unit Diving Coordinator for details; contact information follows). Admission to both courses is by advance consent of the instructors / QUEST faculty.

- SCUBA tanks and sampling equipment will be provided. Students will need to provide their own basic equipment including: BC, regulator, mask, snorkel, fins, weight belt, compass, depth gauge, timing device, full wetsuit, felt-soled booties, and gloves. Students will also need to bring a sleeping bag and sleeping pad and personal items. Tents are provided. A detailed packing list can be found at http://www.uhhmop.hawaii.edu/quest/packlist.shtml.
Cost: Tuition + Lab Fee (2015-based estimate – will be updated when the 2016 fees are announced)

<table>
<thead>
<tr>
<th>Tuition</th>
<th>Lab fee:</th>
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<tbody>
<tr>
<td>Resident undergraduate</td>
<td>MARE 364</td>
</tr>
<tr>
<td>WUE/Pacific Islander</td>
<td></td>
</tr>
<tr>
<td>Non-resident undergrad</td>
<td></td>
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<tr>
<td>Graduate res/non res</td>
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<tr>
<td>$277 x 3 credits = $831</td>
<td>$200</td>
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<tr>
<td>$328.50 x 3 credits = $985.50</td>
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</tr>
<tr>
<td>$380 x 3 credits = $1140</td>
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<tr>
<td>$551 x 3 credits = $1654</td>
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Airfare and transportation: Off island applicants are responsible for their own flight arrangements via Kona airport (KOA). Airport pickup on Sun 5/15 (364s and off island students requiring a UH checkout dive) and Mon 5/16 (264s) will be 10:15 am each day. Airport drop off Sat 5/28 will be 10 am. Uh Hilo students will be transported to the site via University vans, departing from campus.

Deposit information: Please read carefully in order to understand the policy on refunding deposits.
364: $200 due with application. Not refundable after April 13 at noon.

Application Packet Checklist:
- Completed application (attached) – with deposit made out to “University of Hawaii at Hilo”. Due Feb. 16, noon HST.
- Enrollment in UH Hilo Summer Session. Go to http://hilo.hawaii.edu/admissions/Apply.php to apply. Application for summer classes opens in April.
- Valid SCUBA certification (NAUI or PADI) – photocopy of both sides of card with application
- Verification of status as a UH Scientific Diver in Training (DIT) - Coordinate with UH Hilo Unit Diving Coordinator Mauritius Bell at mybell@hawaii.edu. UH Manoa students see UHM QUEST page http://www.hawaii.edu/mop/?q=quest.
- Requirements include a complete dive medical exam – details upon initiation of DIT process. It is strongly recommended that this process is started early. Students who live off-island should consider doing this over winter break.
- Verification of medical insurance that is valid in the state of Hawaii through the duration of QUEST – photocopy with application
- Valid DAN (Divers’ Alert Network) insurance valid through end of QUEST – photocopy of both sides of card with application) http://www.diversalertnetwork.org/insurance/. Note that the Standard Plan does NOT cover other dive related medical expenses; past students recommend the Master Plan.
- DAN CPR and 1st Aid Certification valid through QUEST – required for 364; photocopy of both sides of card with application. UH Students see Student Life Center schedule http://hilo.hawaii.edu/rec/Care.php
- DAN Oxygen Certification valid through QUEST – required for 364; photocopy of both sides of card with application
- Balance of tuition / fees due April 13, 2016
- Provide proof of equipment service valid through QUEST, or new equipment purchase receipt (details upon request), for BC and inflator, and regulator (1st and 2nd stage, octopus and HP swivel spool) May 4 deadline.
Advanced QUEST Application Form – MARE 364

Notification of acceptance by March 5th.

A. General Information:

What is your tuition status?

☐ Resident undergraduate
☐ WUE/Pacific Islander
☐ Non resident undergraduate
☐ Graduate, either resident or non-resident

Name: ___________________________ Phone: ___________________________

Address: ___________________________

City: ___________ State: ___________ Zip / Postal code: ___________

Student ID Number: ___________________________ E-mail address: ___________________________

College Attending: ___________________________ Major: ___________________________

Degree: ___________________________ Expected date of graduation: ___________________________

Participation in MOP Program? Yes ☐ No ☐ MOP campus advisor: ___________________________

Supporting college coursework: Please list marine-related courses, computer courses, statistics/research methods courses you have taken. List titles in addition to alpha codes (e.g.: MARE 350: Methods in Marine Sci) Attach additional sheets if necessary

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___

Course: ___________________________ Grade: ___
B. SCUBA Diving History:
Certifying Organization: ____________________________
Certification Level ____________________________ Year certified: ________
Number of SCUBA dives made to date: _____ Number of dives in the last 12 months: ________
Attached photocopy of both sides of diver certification card(s): ☐
Date of First Aid course: ________________ Attached photocopy of both sides of card ☐
Date of CPR course: ________________ Attached photocopy of both sides of card ☐
Date of DAN Emergency O₂ course: ________________ Attached photocopy of both sides of card ☐

C. Medical Insurance information:
Insurance company: ____________________________ Insurance number: ____________
Attached photocopy of both sides of medical insurance card(s): ☐
Special medical conditions (describe): ____________________________________________________________
_____________________________________________________________________________________

D. Divers Alert Network insurance:
Attached photocopy of both sides of DAN insurance card(s): ☐
DAN ID#: ____________________________ Valid Until: ____________________________

E. Questions
Please briefly answer the following questions, being as specific as possible: (expand space as needed)

1. Describe your diving experience

2. Where would you like to be in your career five years from now and, if applicable, how will participating in Quest 364 help you get there?

3. What characteristics make you an exceptional candidate as a team leader at Quest?
4. Describe a time where you had to deal with conflict in a professional/academic setting, and what you learned from it that may help you as a team leader at Quest.

5. Describe a time that you felt you went above and beyond the call of duty in a class, at work, etc.

6. Have you ever been on a team where someone was not pulling their own weight? How did you handle it?

7. Describe your weaknesses as they pertain to a leadership role, and how will being a Quest team leader will help you improve them.

8. Detail your leadership skills that pertain specifically to a dive setting. How would you handle a situation where you saw a team member do something that was ‘unsafe’ under water?

9. Are you either currently involved with, or planning to be involved with, the MOP program, and doing a MOP Project? Explain.