



## Assessment of Course, Program/Discipline, and Comprehensive Institutional Learning Outcomes

<b>Quarter Assessment Conducted:</b>	Spring
<b>Year Assessment Conducted:</b>	2019
<b>Course Prefix:</b>	AQS
<b>Course Number:</b>	216
<b>Section Type:</b>	OG
<b>Instructor Conducting Assessment:</b>	Alyssa Squiers
<b># Students Satisfactorily Completing Course:</b>	<b>9</b>

Section Type:	Assessment Method Used for Course Learning Outcomes			
DC = Dual Credit	Essay	1	Documented Observation of Student	7
OL = online	Objective Exam	2	Individual Oral Presentation	8
HY = hybrid	Research Paper	3	Group Presentation	9
OG = on-ground	Individual Assignment	4	Special Project	10
Z = Zoom	Group Assignment	5	Other	11
	Portfolio of Work	6		

Intended Course Learning Outcomes	Assessment Method Used	Student Achievement of Intended Course Learning Outcomes:		Mapped to Intended Program/Discipline Learning Outcomes:	Student Achievement of Intended Program/ Discipline Learning Outcomes:	
			# Completing Students Performing at Each Level:			# Completing Students Performing at Each Level:
Upon satisfactory completion of this course, students should be able to:				1. Effectively communicate, verbally and in writing, scientific concepts, research findings and ideas to professionals and the general public.  4. Maintain healthy animals through proper set-up, monitoring and accepted animal husbandry practices  5. Identify physically compromised animals and abnormal animal behaviors  6. Work within a group to conceptualize, plan, construct and manage environments that promote healthy of fishes and invertebrates.		
1. Identify commonly kept species of elasmobranchs (sharks, skates and rays).	2, 3, 4	Advanced	2	1, 5	Advanced	1
		Competent	3		Competent	2
		Developing	3		Developing	5
		Emerging	1		Emerging	1
2. Identify proper nutrition, commonly encountered health conditions, and common behavior associated with elasmobranchs in captive environments.	3, 8	Advanced	2	4	Advanced	1
		Competent	2		Competent	3
		Developing	4		Developing	4
		Emerging	1		Emerging	1
3. Discuss factors necessary for the safe handling, immobilization and transport of elasmobranchs.	5, 7	Advanced	2	4, 5	Advanced	1
		Competent	3		Competent	3
		Developing	3		Developing	4
		Emerging	1		Emerging	1
4. Discuss factors influencing the long-term success in keeping elasmobranchs in controlled captive environments.	2, 3, 8	Advanced	2	4, 5, 6	Advanced	1
		Competent	2		Competent	2
		Developing	4		Developing	5
		Emerging	1		Emerging	1
		Advanced			Advanced	
		Competent			Competent	
		Developing			Developing	
		Emerging			Emerging	

### Learning Outcome Assessment Narrative and Analysis

**1. What did you discover about student performance based on the evidence you identified and used above?** Advanced and competent students either have previous industry experience, a B.S. degree or successfully completed AQS215 in the fall. Developing and emerging students are learning the material and doing well but still need aquarist guidance when practically applying information and in their course work. The completion of AQS215 in the fall will help pull all concepts together.

**2. Future Planning: What changes or high impact practices do you plan to implement to your course and/or teaching methods based on your response to question #1 above?** This year I reduced the number of guest lectures and included another anatomy lecture to try to cover basics that seemed to be lost as the course was formerly taught. Comparing with next years students will highlight this change hopefully.

**3. (To be answered after having implemented these changes the next time the course is taught by you): After having implemented the above changes in your course, what changes did you observe in student achievement of course learning outcomes? Was the change successful? How will you adjust your teaching methods or presentation moving forward?**