Course Assessment Report - 4 Column

Great Basin College

Courses (SCI) - Biology

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Cells - Students will understand the structures and functions of cells. (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017 **Start Date:** 05/18/2012 **Course Outcome Status:** Active	**Assessment Measure:** Exam #1: questions 1,4,20-34 **Assessment Measure Category:** Written Test/Exam **Criterion:** N/A	05/18/2012 - The % correct on each question is listed below followed by the point biserial correlation coefficient (http://en.wikipedia.org/wiki/Pointbiserial_correlation_coefficient) comparing the top 27% of the performers on this exam in the class with the lower 27% of performers. This is done individually for each question. A point biserial coefficient >.2 means that the question differentiates moderately well between student groups. A point biserial coefficient >.4 means the question discriminates very well between student groups: 1 48 .5 4 89 .27 20 22 0.08 21 67 .29 22 89 .15 23 100 .00 24 93 .31 25 19 .40 26 74 .48 27 59 .44 28 52 .39 29 63 .14 30 59 .52 31 44 .64 32 48 .19 33 74 .40 34 63 .31 **Criterion Met:** N/A **Reporting Period:** 2011-2012	05/18/2012 - This is done question by question. If a question has a low percent score and a high point biserial coefficient then it is doing what it is supposed to do. I am assuming that if the top 27% of the class can get it right then I am doing my job. Here is an example (question 1: The study of the anatomy (structure) of small protein enzymes is classified as the study of_____. The correct answer is ultrastructure. Only 48% of the entire class got this correct; while 100% of the top 27% of students got this question correct leading to a HIGH pt biserial coeff. This question was covered in a lecture, in a workbook question, and by various visual aids. Yet, only 48% got it correct. Do you want these people to be your nurses? #22: improve instruction on enzymes #25: improve instruction on surface area to volume ratios of cells #29:improve instruction on transmembrane protein structure #32: improve instruction on second messenger systems and signal transduction The subjects above are the most challenging from BIOL 190 that carry over into BIOL 223. It is not surprising that they have trouble with this specific material.

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Tissues - Students will understand the structures and functions of tissues. (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017 **Start Date:** 05/18/2012 **Course Outcome Status:** Active	**Assessment Measure:** Exam #1: questions 38-50 **Assessment Measure Category:** Exam/Quiz - Standardized **Criterion:** N/A	05/18/2012 - 38 55 .48 39 66 .34 40 41 .57 41 66 .41 42 70 .21 43 48 .29 44 55 .18 45 14 .02 46 96 .17 47 74 .17 48 70 .26 49 48 .06 50 59 .33 **Criterion Met:** N/A **Reporting Period:** 2011-2012	05/18/2012 - #44: question on the function of connective tissue? I am not sure why they missed this one. Maybe it is because the answer was all of the above??? #45: I REALLY need to improve my instruction on the makeup of hyline cartilage #49: The students were not able to identify collagen as an important component of dense irregular connective tissue? I need to emphasize this more.
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Integumentary system - Students will understand the structures and functions of the integumentary system (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017 **Start Date:** 05/18/2012 **Course Outcome Status:** Active	**Assessment Measure:** Exam #2: questions 1-15 **Assessment Measure Category:** Exam/Quiz - Standardized **Criterion:** N/A	05/18/2012 - 1 75 .7 2 95 .45 3 66 .63 4 75 .38 5 71 .11 6 95 .07 7 66 .17 8 75 .34 9 75 .33 10 100 0 11 87 .34 12 50 .27 13 91 .6 14 75 .53 15 95 .07 **Criterion Met:** N/A	05/18/2012 - #7: students didn't know which layer of the dermis contained vascularization, we have to work on this more.

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
		Reporting Period: 2011-2012	
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Skeletal system - Students will understand the structures and functions of the skeletal system. (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017 **Start Date:** 05/18/2012 **Course Outcome Status:** Active	**Assessment Measure:** Exam #2: questions 16-34 **Assessment Measure Category:** Exam/Quiz - Standardized **Criterion:** N/A	05/18/2012 - 16 91 .52 17 91 .38 18 33 .62 19 83 .72 20 33 .21 21 75 .43 22 62 .74 23 66 .23 24 79 .41 25 54 .59 26 54 .08 27 50 .41 28 62 .46 29 87 .54 30 79 .49 31 62 .30 32 75 .14 33 66 .60 34 58 .37 **Criterion Met:** N/A **Reporting Period:** 2011-2012	05/18/2012 - #20: students were unclear is osteocytes deposit calcium phosphate or of they deposit matrix to produce bone. This was covered extensively in class, but it needs to be covered better. #26: I think that this is just a rotten question, no improvement needed here except a better assessment.
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Muscular system - Students will understand the structures and functions of the muscular system. (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017 **Start Date:** 05/18/2012 **Course Outcome Status:** Active	**Assessment Measure:** Exam #3: entire exam **Assessment Measure Category:** Exam/Quiz - Standardized **Criterion:** N/A	05/18/2012 - If we define success as A-B, which is what is required for entrance into the nursing program --- this was only 8 students out of 30 registered past the add/drop deadline. Ten students recorded a 'W' for this course. This is historically within the norms for this class and is what the nursing and other health sciences departments want us to do in this course. **Criterion Met:** N/A **Reporting Period:** 2011-2012	05/18/2012 - #11: I need to change the way I present the different layers of the muscle connective tissue so that they can better link the layers to function #22: need to go over the function if titin better #23: this is a small detail that I should eliminate from the course #41: the connection needs to be made better between muscle fiber mitochondria structure and oxidative metabolic levels in the cells

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
			#44: this question was about hypertrophy and hyperplasia in muscles, apparently students need to see more clearly that you cannot increase the NUMBER of muscle cells of a given type
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Nervous system - Students will understand the structures and functions of the nervous system. (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017 **Start Date:** 05/18/2012 **Course Outcome Status:** Active	**Assessment Measure:** Exam #4: entire exam **Assessment Measure Category:** Exam/Quiz - Standardized **Criterion:** N/A	05/18/2012 - If we define success as A-B, which is what is required for entrance into the nursing program --- this was only 8 students out of 30 registered past the add/drop deadline. Ten students recorded a 'W' for this course. This is historically within the norms for this class and is what the nursing and other health sciences departments want us to do in this course. **Criterion Met:** N/A **Reporting Period:** 2011-2012	05/18/2012 - #12: this question is about neural tone; we need to work on the MAJOR concept that neurons fire MORE OFTEN when stimulated #19: This is a small detail (yet important) about the dermatone map. I would improve learning by having some sort of activity on the dermatome map. #37: We need to spend more time on the cerebral spinal fluid circulation route #42: This question has many examples of what might happen in sympathetic nervous system stimulation. I think that learning could be increased if we go over more examples in class. #43: BAD QUESTION
Courses (SCI) - Biology - BIOL 223 - Human Anatomy/Physiolgy I - Scientific Terminology - Students will show proficiency in the use and understanding of scientific terminology. (Created By Courses (SCI) - Biology) **Next Assessment:** 2016-2017	**Assessment Measure:** Exam #1: questions 7-11 **Assessment Measure Category:** Exam/Quiz - Standardized **Criterion:** N/A	05/18/2012 - 7 70 .3 8 85 .45 9 88 .27 10 66 .61 11 92 .23 **Criterion Met:** N/A	05/18/2012 - I don't see any problems here or any room for improvement.

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
Start Date: 05/18/2012		**Reporting Period:** 2011-2012	
Course Outcome Status: Active			