# **Rubric Statistics Report**

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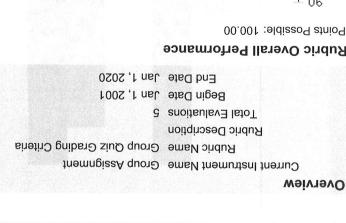
Criteria		Novice	Competent	Proficient	Number Evaluation	Average	Median	Mode	Std. Deviation
Communication	Points	10.00	20.00	30.00					
		0%	20%	80%	Sī	28.00	30.00	30.00	4.47
Teamwork	Points	1.00	5.00	10.00					
		0%	0%	100%	<b>O</b> 1	10.00	10.00	10.00	0.00
Empirical & Quantitative Skills	Points	10.00	20.00	30.00					
		0%	20%	80%	5	28.00	30.00	30.00	4.47
Critical Thinking	Points	10.00	20.00	30.00					
		0%	80%	20%	5	22.00	20.00	20.00	4.47

Spring 2015; BIOL2402; Section 015

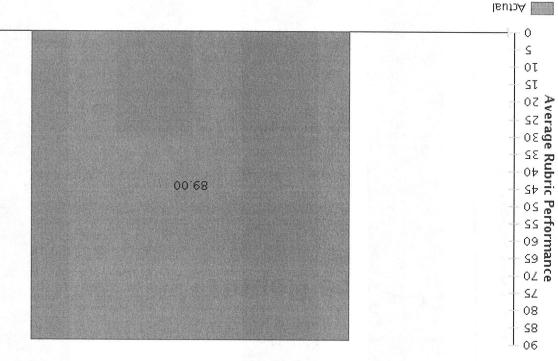
Online Anatomy & Physiology 2

# Rubric Statistics Report

Frequency Distribution Rubric Analysis Rubric Overall Performance Report Sections Overview



Rubric Overall Performance



Online Anatomy & Physiology 2 Spring 2015; BIOL2402; Section 015 For each course approved for core curriculum inclusion, provide the following information:

a) Provide a link to or copy of your data results and/or a summation of your results for each required competency for each core curriculum course in your program.

Attached

b) Did you meet your benchmark/target in each course? If not, do you need to adjust your benchmark or adjust the instruction to meet the benchmark?

met

c) Provide information on your data collection strategy (e.g. each faculty member collected data, sampling of student work collected across sections used, etc.):



d) Please explain how your results were evaluated (e.g. a team evaluated the data, data was collected from every student in the course via Blackboard, etc.):

data was collected on paper from every student

e) How do you ensure your results are not biased and are reliable (i.e. inter-rater reliability)?

collections & identifications were quantitative, so reliability is a mother of fact (counting, identifying) presentation was assessed in in order (attached)

f) Please list the facts you feel contributed to your results (Analysis):

bacteria grow on agar

g) How have you or will you improve student learning in each course based on the most recent assessment results?

I will work with students to more critically essess data i present in a scientific format

### CALL FOR COURSE PROPOSALS FOR INCLUSION INTO CORE CURRICULUM

To propose a course for inclusion into the AC General Education Course List (Core Curriculum) please complete the following areas of inquiry. Please review the description of the Core Objectives (General Education competencies) from the Texas Higher Education Coordinating Board.

Course under Consideration:

BIOL 2420/2320 Microbiology FOR Non-Science Majors

### **Catalogue Description of the Course:**

Study of the morphology, physiology AND taxonomy of representative groups of pathogenic AND nonpathogenic microorganisms. Pure cultures of microorganisms grown ON selected media are used IN learning laboratory techniques. Includes a brief preview of food microbes, public health AND immunology.

Foundational Component Area:

Life and Physical Sciences

### **Course Student Learning Outcomes:**

1. Describe the major subdivisions of microbiology and describe the types of microorganisms in each division. 2. Compare prokaryotic and eukaryotic cells on the basis of size, organelles, chromosomal characteristics, reproductive characteristics and nutritional types. 3. Describe and define the function and basic chemical composition of various organelles. 4. Describe and give examples of the four types of biomolecules. 5. List the major characteristics of each kingdom of the biological world and viruses. 6. List and describe the various characteristics associated with life. 7. List and describe the major beneficial and destructive activities of the microbial members of each kingdom of the biological world. 8. Describe and compare the various chemical and physical methods used in microbial control. 9. Describe the etiology, pathogenesis, and treatments of major microbial diseases. 10. List and describe the body's lines of defense in resisting and/or combating disease causing microorganisms. 11. Explain what is meant by nosocomial infections and how to prevent nosocomial infections in patients. 12. Explain how to safeguard themselves and others from infectious disease. 13. Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data. 14. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory. 15. Communicate effectively the results of scientific investigations.

Communication Skills				
Brief Description of Assignment and/or Activity to fulfill Course Objectives:	Students will each evaluate growth characteristics and biochemical responses of an unknown bacterium for the purpose of identification.			
Direct Assessment Method As applied to above Assignment/Activity	Rubric,			
Brief Outline of Assessment Method(s)	As one component of this activity, students will make a presentation on the significance of their identified bacterium to microbiology. The rubric for this portion of the activity is designed to measure effective presentation and communication skills. These include a demonstrated organization and delivery of content, and the use of appropriate sources, documentation, and visual design elements. Student artifacts will be submitted to the Assessment Committee.			
Benchmark/Target:	60% of the students will effectively communicate the general characteristics of their identified bacterium.			
Critical Thinking Skills				
Brief Description of Assignment and/or Activity to fulfill Course Objectives:	Students will each evaluate growth characteristics and biochemical responses of an unknown bacterium for the purpose of identification.			
Direct Assessment Method As applied to above Assignment/Activity	Rubric,			
Brief Outline of Assessment Method(s)	As one component of this activity, students will provide a written explanation for justification of their choice in identifying the unknown bacterium. The rubric for this portion of the activity is designed to evaluate the reasoning ability of students, based on developed laboratory data, for species identification. Student written explanations will be provided to the Assessment Committee.			
Benchmark/Target:	60% of the students will have developed the technical skills and reasoning ability to correctly identify an unknown sample of bacteria using critical thinking skills.			
Empirical and Quantitative Skills				
Brief Description of Assignment and/or Activity to fulfill Course Objectives:	Groups of 3-4 students will develop a scientific experiment to show the ubiquity of microorganisms.			
Direct Assessment Method As applied to above Assignment/Activity	Rubric,			

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Brief Outline of Assessment Method(s)	As one component of this activity, individual students will determine the numbers, diversity, and averaged values of their sampled microbes. They will compare their average abundance values with those of others of their group that sampled in the same locale. The rubric for this portion of the activity is designed to evaluate the primary data, each group's averages, and each group's comparisons to other groups. Student reports will be provided to the Assessment Committee.	
Benchmark/Target:	60% of the student groups will have demonstrated the quantitative skills needed to acquire and effectively analyze experimental data.	
Teamwork	retege para se en en en espera de la secono d La secono de la secono dela secono de la secono dela secono de la secono dela secono dela secono de la secono de la secono de la secono dela secono de la secono de la secono dela secono dela secono de la secono dela secono de la secono de la secono de la secono de la secono dela secono de la secono de la secono de la secono dela secono dela secono dela secono dela secono dela secono dela secono del	
Brief Description of Assignment and/or Activity to fulfill Course Objectives:	Groups of 3-4 students will develop a scientific experiment to show the ubiquity of microorganisms.	
Direct Assessment Method As applied to above Assignment/Activity	Rubric,	
Brief Outline of Assessment Method(s)	As one component of this activity, student groups will design, describe, and implement an environmental sampling strategy. The rubric for this portion of the activity is designed to evaluate each group's ability to effectively sample environmental areas of interest. Student reports will be provided to the Assessment Committee.	
Benchmark/Target:	60% of the student groups will demonstrate the ability to develop ar carry out a common strategy for testing the ubiquity of microorganisms.	

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BAUMAN BIOL 2420-003 #2 Students lab unknown identification Last Name First Name Username LAB [Total Pts: 100] | 378817 data shoets & written explanations reformed to students 97.6% developed technical skills & reasoning ability to correctly id bacteriin 0 - refused to attend class or participate 

#3 all students participated and succeeded in agricing becterie from the environments isolated a particular one 10% student counted how many and how many kinds of becter's they wolated

Grading nubrics for #1

Students made presentations of pathogens

97.6% of students effectually communicated the general characterists (one student refused to porticipate)

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Name:_	Group Topic:
	Individual Section

## **GRADING RUBRIC**

	T	KUDKIC	
ORGANIZATION	The presentation is	The presentation is	The presentation is
AND CONTENT	missing key	informative, gets off	very informative,
	components, has no	sequence at times and	follows a logical
	sequence, and is of	is of good quality	sequence and is of
	poor quality	11	high quality
	0-25	40 43	50
SUBJECT	The student does not	The student	The student
KNOWLEDGE	have a good grasp of	knowledge of the	demonstrates great
	the subject matter and	material is limited and	knowledge of the
	cannot intelligibly	is uncomfortable	material and answers
	answer questions	answering questions,	questions clearly and
	concerning the	but is able to provide	elaborately
	presentation	very basic answers	
	0-5	10	15
VISUAL AIDS	There are no pictures,	There are 1-2 visual	There is at least one
	charts, graphs or	aids in the student's	visual aid per slide =
	visual aids of any kind	section of the	3-4
	in the students section	presentation	
	of the presentation		
	0-5	10	15
GRAMMAR	There are several	There are a couple of	There are no
	spelling errors or	spelling errors or	noticeable spelling
	grammatical errors in	grammatical errors in	errors or grammatical
	the presentation	the presentation	errors in the
			presentation
	0	(5)	10
GROUP WORK	Student exhibited an	Student worked well	Student worked well
	inability to work with	with others in the	with others and shared
	others in the group	group, but did not	equally in the
	and did not share in	share equally in the	responsibilities
	the responsibilities	responsibilities	
	0	5	(10)
TOTAL SCORE			~
			*53

why blood culture only 5% t