

**BIOL 366 LAB REPORT RUBRIC**

Content	Unsatisfactory 0	Borderline 0.5	Satisfactory 1	Exemplary 2	Score
<p><b>Title Page &amp; Abstract</b></p> <p>Title, course, instructor, semester</p> <p>~300 word summary of your paper including the purpose, hypotheses, and major findings</p>	Missing more than two of the following (course, instructor, semester), or the title, or the name; Title is lacking all together	Missing two of the following (course, instructor, semester), except title or name; Title is insufficient by not being informative of the report content	Missing one of the following (course, instructor, semester) except title or name; Title is too long and provides too much information that is not concise or indicative of the topic	Contains title, name, date, course, instructor, semester; Title is a clear and concise statement that indicated the topic that you are writing on	
<p><b>Introduction:</b></p> <p>Explanation of topic</p>	No introduction is provided	Gives very little information	Provides not nearly enough background to understand the topic, or is too long to keep the	Presents a concise lead-in to the report by explaining what the topic of the report is; defines	
<p><b>Methods:</b></p> <p>Describe how the study was conducted; written in the past tense</p>	No statement is provided	Hypotheses are unstated or un-testable as stated. No ecological rationale for the research is provided.	Hypotheses are present but not clear; ecological motivation is unclear	The objectives of the research are presented and both null hypotheses are testable and clearly stated. The ecological rationale for each hypothesis is clear.	
<p><b>Results:</b></p> <p>Presentation of your data, written in past tense</p>	No results are reported	Some of the steps are understandable; most are confusing and lack detail. Written as a list of instructions. Data analysis is unclear	Most of the steps are understandable; some lack detail or are confusing. Data analysis not adequately described.	Presents easy-to-follow methods for different part of the laboratory which are logical and adequately detailed: Metric units used; data analysis methods	
<p><b>Discussion:</b></p> <p>Your interpretation of the results</p> <p>Significance of the results and sources of error</p>	Not sequential, most steps are missing or are confusing.	Both incomplete, minor inaccuracies and/or illegible characters. Results not reported in the same order as the methods were written; details of report finding written first, major findings second. Reference to a table or a figure, was simple reinstatement of data in the figure or table; Table or Figures misinterpreted.	Both accurate, some ill-formed characters; Results may or may not be reported in the same order as the methods were written; mixing of major findings and details for each categories; Reference to a table or a figure, was simple reinstatement of data in the figure or table;	Condense and clear report of the data and answering of questions. Results are reported in the same order as the methods were written; major findings written first for each category, followed more detailed information; When referring to a table or a figure, write about the pattern of the data via ranges and average values;	
<p><b>References &amp; Citations:</b></p> <p>Use Ecology style as taught in library laboratory</p>	Presents an illogical explanation for findings and does not address any of the questions suggested in the handout.	Presents an illogical explanation for findings and addresses few questions.	Presents a logical explanation for findings and addresses some of the questions. Consists of a paragraph of a few sentences	Presents a logical explanation for findings and addresses most of the questions; explanation of any sources of error. Consists of several paragraphs of several to a few sentences per paragraph	
<p><b>Figures:</b></p> <p>Have a horizontal (bottom) and vertical (left) axis;</p> <p>Figure legend listed <i>below</i> the figure; symbols and units present in axes labels; see following pages for examples</p>	No references listed	Some references listed; or not properly formatted; citations missing	All references listed, but not properly formatted; or not all references listed, but were properly	All references listed and properly formatted; citations are used appropriately	
<p><b>Tables:</b></p> <p>Table legend (i.e. title) located above the table itself and should be self explanatory of the information contained in the table. Has 5 main points: 1) the number and title; 2) the vertical heading(s) (column) called boxhead; 3) the horizontal headings (row headings) called the stub; 4) the fields that have the data; 5) 3 horizontal lines across the table with 1 placed below table legend (title), 1 below the boxhead; and 1 at the bottom of the table; See example</p>	No figure legend(s); No horizontal lines breaking the header from the data and or multiple vertical lines present	Figure legend(s) only consists of the word "Figure" plus what ever number it is. (e.g. Figure 1) without a description. Figure legend(s) may be on the top or the bottom of figure	Figure legend(s) is/are presented at the bottom of the figure. Figure legend(s) include(s) the number (e.g. Fig. 1), but does not accurately describe the figure; or does not include the fig. number; or is placed above the figure itself	Figure legend(s) accurately describe(s) the figure(s) and provide enough information to stand alone without referring back to the text; are located below the figure itself. Figure legend(s) are listed below the figure.	
<p><b>ACCURACY</b></p> <p><b>Experimental Design:</b></p>	No table legend; No horizontal lines breaking the header from the data and or multiple vertical lines present	Table legend only consists of the word "Table" plus what ever number it is. (E.g. Table 1) without and description. Table legend may be on the top or the bottom of Table	Table legend is presented at the top of the table. Table legend includes the number (e.g. Table 1), but does not accurately describe the table; or does not include the table number; or is placed below the table itself	Table legends (titles) has table number and accurately describes the table and provide enough information to stand alone without referring back to the text; are located above the figure itself. Tables are have only 3 horizontal lines, 1 below the title, one below the boxhead, and one below the last data row	
<p><b>Quantitative Analysis:</b></p>	Table legend (i.e. title) located above the table itself and should be self explanatory of the information contained in the table. Has 5 main points: 1) the number and title; 2) the vertical heading(s) (column) called boxhead; 3) the horizontal headings (row headings) called the stub; 4) the fields that have the data; 5) 3 horizontal lines across the table with 1 placed below table legend (title), 1 below the boxhead; and 1 at the bottom of the table; See example				
<p><b>Organization and Writing Style</b></p> <p><b>Organization:</b></p> <p>Title page, Abstract, Introduction, Methods, Results, Discussion, References, Tables, Figures</p> <p><b>Grammar &amp; Spelling</b></p>	Experimental design not clear; Design cannot test hypotheses	Experimental design poorly described; may be able to test one hypothesis. Experimental variables are not identified or described; controls not considered.	Experimental design is appropriate to test one of the hypotheses; variables are vague; controls considered.	Appropriate experimental design developed and implemented to address research question and hypotheses. Dependent, independent, and auxiliary variables are identified and described. Need for controls considered.	
<p><b>Organization and Writing Style</b></p> <p><b>Organization:</b></p> <p>Title page, Abstract, Introduction, Methods, Results, Discussion, References, Tables, Figures</p> <p><b>Grammar &amp; Spelling</b></p>	Units are rarely used or are generally incorrect. Statistics not reported. Figures display data incorrectly.	Units used only in some key parts of report. Calculations contain some errors. Figures correct. No labels or legend.	Units generally used correctly in most of report. Appropriate analysis, but calculations contain 1 or more errors. Figures correct, variables unlabeled.	Units are used correctly and consistently throughout the report. Calculations clearly laid out. Appropriate descriptive and hypothesis testing statistics used. Figures display data correctly, all variables labeled.	
<p><b>Organization and Writing Style</b></p> <p><b>Organization:</b></p> <p>Title page, Abstract, Introduction, Methods, Results, Discussion, References, Tables, Figures</p> <p><b>Grammar &amp; Spelling</b></p>	More than 2 categories missing or out of sequence.	Not more than 2 categories missing or out of sequence.	Not more than one category missing or out of sequence.	Proper order/sequence as listed	
<p><b>Organization and Writing Style</b></p> <p><b>Organization:</b></p> <p>Title page, Abstract, Introduction, Methods, Results, Discussion, References, Tables, Figures</p> <p><b>Grammar &amp; Spelling</b></p>	Very frequent grammar and/or spelling errors.	More than two errors.	Only one or two errors.	All grammar and spelling are correct.	
				<b>Total (out of 30)</b>	