

Formal Laboratory Report

Technical reports and journal articles are part of engineering and scientific work. The report's purpose is to communicate your work to the scientific community. In contrast to the lab notebook's informal, detailed and chronological style, a technical report is **formal, concise, and purposeful**.

Assignment details

Report focus	Report your successful design of an RLC circuit <i>or</i> a bandpass filter. Your report should <i>convince</i> the reader that you <ul style="list-style-type: none">• created the correct circuit,• measured the appropriate quantities,• understand the theory behind the circuit, and that• your experimental results are consistent with the theoretically expected results. If the expected and measured results do not agree, discuss sources of experimental error or consider why the theory may be incomplete, inappropriate or incorrect.
Submission format	Email me (mrosario@stmarys-ca.edu) a pdf file. This must <ul style="list-style-type: none">• follow the expected format• be prepared using LaTeX.• have figures and equations embedded in the file• be 3-4 formatted pages long
Late papers	Late first drafts will not be accepted. Late final papers will be accepted up to one week late with a pre-approved extension.
Extensions	Extensions will be granted automatically, with no grade penalty, as long as you <ul style="list-style-type: none">• let me know at least 24 hrs in advance of the original due date.• submit the request by email,• give a reason and an expected submission date

Due dates and grading

First draft (15%)	Due Wed Nov 8 2:45pm Grading will be based on completeness, not correctness. <ul style="list-style-type: none">• A: Fully written report, with all figures, equations and references included.• B: Mostly written report. One or two figures, equations or references missing. One or two sections may not be fully written, but all paragraphs are present.• C: Report can be commented on. Each paragraph has a main idea, with some written idea of what supports go into each paragraph. A few figures, equations or references are included.• D: Outline is present with details specific to the study. It can't be commented on substantially. No figures or equations are included.• F: Incomplete outline, or is so general that it might describe <i>any</i> experiment.
Peer review (10%)	Due Wed Nov 8 4pm (you review two other papers) Full credit will be given for satisfying all of the following criteria. Each missing criteria will drop your grade by one full letter grade. <ul style="list-style-type: none">• Bringing 3 hardcopies of your paper.• Commented on two papers• Comments are on content and structure.• Comments are spread throughout the paper.• There are 5-10 comments per paper.• Present and participated during the entire peer review session.
Final draft (75%)	Due Wed Nov 15, 11:59pm A grading rubric will be provided during the peer review