

Undergraduate Research Scholars LAUNCH: UNDERGRADUATE RESEARCH

Overleaf 2324 URS LaTeX Template

User Manual

Version 5.0

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1. Introduction

This User Manual (UM) provides important information for students in the LAUNCH Undergraduate Research Scholars (URS) thesis program to effectively use the URS thesis template available through *Overleaf*, an online LaTeX editor. While this manual is specific to the URS thesis template in *Overleaf*, these commands can be used in any LaTeX editor.

1.1 The Undergraduate Research Scholars Thesis Manual & Policy Guide

This User Manual is a guide specific to the LaTeX template of URS thesis program. For a more comprehensive set of guides for the program in general please see the *URS Thesis Manual & Policy Guide as well as the URS Formatting Guide*, both of which can be found in the <u>URS Resources Page</u>. *The URS Thesis Manual & Policy Guide and the URS Formatting Guide* are designed to assist Undergraduate Research Scholars and faculty advisors in the preparation of theses by providing uniform standards of style and format while allowing enough flexibility to satisfy the accepted practices of different academic disciplines. Furthermore, the *URS Thesis Manual & Policy Guide* and the URS Formatting Guide have been adapted from the Thesis Manual published by Graduate and Professional Studies at Texas A&M University to emphasize the expectation that the resulting Undergraduate Research Scholar's thesis meets the same high standards for format and style as a master's or doctoral dissertation. Previously submitted theses are available for view in the Undergraduate Research Scholars Capstone Collection in the <u>Texas A&M OAKTrust Repository</u>.

1.2 URS Program Requirements and Expectations

- Attend all Mandatory Events (Orientation, Small Group Meetings, and Thesis Formatting Workshop)
- Respond to program emails within 2 business days. All program correspondence will be sent to your official Texas A&M Gmail account.
- Add <u>ugr@tamu.edu</u> and your assigned Thesis Reviewer's email address to your *Safe* Senders List so that program emails do not go to your Spam or Junk Folders.
- Receive Research Compliance Approval (if applicable to your project) before collecting data.
- Submit/receive approval for the Fall Progress Report, Spring Progress Report 1, and Spring Progress report 2 assignments in Canvas.
- Submit/receive approval for the Spring Installment 1 and Spring Installment 2, Submissions in the URS Canvas Community
- Make a Public Presentation at an approved venue
- Submit/receive approval for the Presentation Report in the URS Canvas Community
- Submit/receive approval for the Final Thesis in the URS Canvas Community and in the Scholars Thesis Submittal System (STSS)

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- Receive faculty advisor approval for the Final Thesis and Embargo Selection in the Scholars Thesis Submittal System (STSS)
- Notify LAUNCH: UGR staff of any absences or missed assignments and provide documentation of a university-excused absence—no late work will be accepted without a university-excused absence. See the Texas A&M University student rules at https://student-rules.tamu.edu/ for a list of university-approved absences, including religious holidays. Missing mandatory events or assignments without a university-excused absence will result in your removal from the program. Documentation for missing a program deadline or mandatory event should be emailed to ugr@tamu.edu.
- Student projects vary by discipline and scope. All URS theses must have a minimum of 5,500 words of paragraph/body text. This minimum word count includes body text in the Introduction through Conclusion sections, as well as body text in the Creative Artifact section (if using the Creative Works template). The minimum word count does not include preliminary pages, references section, captions, figures, tables, or equations.). Many Undergraduate Research Scholars write more than the minimum 5,500 word count. Keep this minimum word count in mind when planning out your thesis.

1.3 Who should be using the URS thesis template in *Overleaf*

This template is mainly intended for students in fields related to Science, Technology, Engineering, and Math (STEM). Hence, the style of the *Overleaf* LaTeX template matches the *Word* STEM template with the advantage of making formatting, equations, and references relatively easier to accomplish than in Microsoft Word. Therefore, while this template should provide the foundation necessary to navigate *Overleaf* with ease, please be aware that having some prior experience with LaTeX-based programming is highly recommended. Unlike other LaTeX editors, however, all of your work will be in *Overleaf*. As a result, you will not need any LaTeX-related software packages downloaded to your computer.

Please note that the other templates for the URS program are available on the <u>URS Resources</u> <u>webpage</u>. Any questions you have regarding the URS program or the URS thesis template in *Overleaf* can be directed to LAUNCH: Undergraduate Research staff at <u>ugr@tamu.edu</u>.

2. Overview

Overleaf is a free web-based medium that employs LaTeX to provide an academic writing environment that is suitable for writing blog posts, articles, posters, slide decks, books, essays, or in this case, a thesis. Since it is web-based, you do not have to download any software packages related to LaTeX. In other words, all of your work will be based in *Overleaf*.

2.1 Cautions & Warnings

Some notes worthy of keeping in mind:

- a. While this manual is intended as an aide for using *Overleaf*, it does not provide a comprehensive overview of all the policies and regulations of the URS program itself. You should, therefore, remember to always refer to the *URS Thesis Manual and Policy Guide* as well as the URS Formatting Guide for an all-inclusive list of the rules and policies of the thesis and the URS program.
- b. Make sure to *always* have a backup copy of your content. It is highly recommended that you save a version of each installment you complete in *Overleaf* to ensure that if the version you are continually updating breaks (or even fails) for any reason, you always have a backup copy to which you can resort. However, if you do encounter issues with programming in *Overleaf*, never hesitate to reach out to <u>ugr@tamu.edu</u>.
- c. Do not change the formatting in the URS *Overleaf* template except for the modifiable sections designated within this manual.
- d. Be aware that while the URS *Overleaf* template was modified from the template provided by Graduate and Professional Studies to fit the requirements of this program, they are not the same. Hence, they have separate submittal sites. The submittal site for the URS Program can be found at the <u>Scholars Thesis Submittal</u> <u>System (STSS)</u>.
- e. *Overleaf* is a free online platform that allows for the creation of a multitude of documents. It is not in any way affiliated, endorsed, or supported by Texas A&M University or the Texas A&M Libraries.

3. Getting Started with Overleaf

This section provides the instructions on how to make a free account in *Overleaf* and how to locate and import the thesis template:

3.1 Registering for an account:

- 1. Open your web browser of choice
- 2. Go to https://www.Overleaf.com/
- 3. You will be directed to the following screen in **Figure 1**. In the top right-hand corner, click on **Register**.

Sverleaf			Features & Benefits +	Templates	Plans & Pricing	Help-	Register	Log In
		LaTe2						
& Menu			The Universe	Çab ı	Review 😁 Share 🥝 Sub	amit 'D History S	Chat	
v 😂 sect	rres nhverse.jpg tions erences.bib	la - Amd(figurn)- 15 16 - Amd(figurn)-	e discovers exactly shat the nit/diagonar and be replaced a sizedy hoppened. Get started now	Chairma in de Antonio de Carlos de C	es els has fait of the second	io regional by		
		email@example. I'd like emails ab Register usin	out product offers and comp			iter		

Figure 1. Overleaf Main Screen

4. Register using your email and create a password. Then, click on **Register using your** email, as demonstrated in **Figure 2**. (You can register using Google or an ORCID if you have one).

Överleaf	Features & Benefits +	Templates	Plans & Pricing	Help +	Register Log In
	Dogistor				
	Register				
	Email				
	Password Register using your email				
	 I'd like emails about product offers ar company news and events. 	nd			
	or				
	Register using Google				
	Register using ORCID				

Figure 2. Overleaf Account Registry Screen

3.2 Locating the URS Thesis Template

 Once you are registered and logged in, you will be directed to the main page of Overleaf, where your projects will be visible (see Figure 3a). As shown in Figure 3, there are a few projects on the main screen, but because this is probably your first time working in Overleaf, your main screen will most likely be empty (see Figure 3b). To start a project, click on New Project in the top left-hand corner. From the drop-down menu, click on Thesis.

Överleaf			Help • Projec	ts Account •
New Project	Q Search projects			
Blank Project Example Project	Title	Owner	Last Modified 🔻	Actions
Upload Project	URS 1920_ LaTeX Template (Testbug Version)	You	2 hours ago by You	e 🛆 🗠
Import from GitHub	BiblatexCitationStyle	You	2 days ago by You	en 🗛 🕰
Templates	Texas A&M Thesis and Dissertation Template (1)	You	2 days ago by You	e a a
Academic Journal	Generate IEEE Styled Bibliography for all kinds of items	You	2 days ago	e a 🗅
Book	URS 1920_ LaTeX Template (Final Version)	You	3 days ago	en 🗛 🗗
Formal Letter Homework Assignment	URS 1920_ LaTeX Template (Prefinal Version 2.0)	You	3 days ago by You	e a 🗅
Poster	URS 1920_LaTeX Template (Prefinal Version)	You	7 days ago	en 🗛 🖨
Presentation	URS 1920_LaTeX Template	You	8 days ago	en 🗗 🗗
Project / Lab Report	Texas A&M Thesis and Dissertation Template	You	8 days ago by You	en 🗛 🖨
Résumé / CV	URS LateX Template	You	15 days ago by You	en 🗗 🗗
Thesis View All	ASTR 403_Term Paper	You	15 days ago by You	e e e

Figure 3a. Overleaf Project Screen

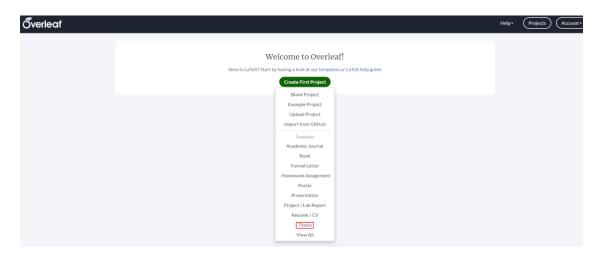


Figure 3b. Overleaf "Getting Started" Screen

You will be directed to the gallery webpage (see Figure 4a), containing all the possible thesis templates belonging to a variety of institutions worldwide. If you scroll down to Related Tags and search for and click on the Texas A&M University tag (shown below in Figure 4b), you will be prompted to the thesis templates belonging to Texas A&M.

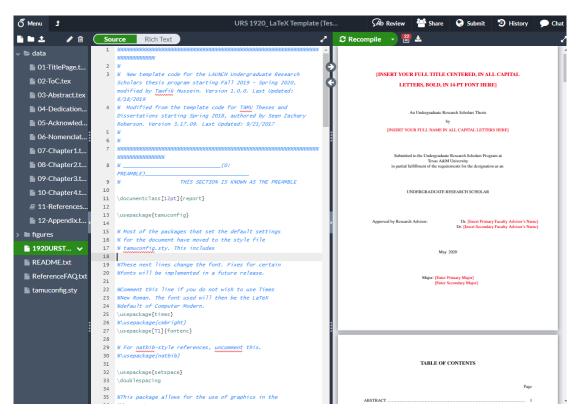
Överleaf			Features & Benefits • Ter	emplates Help+	Projects Account	**)
G	Gallery — Thesis		Filters: All / Templates / Examples / Article	les		
	allery Items tagged Thesis					
Yo or the	ur thesis or dissertation is often the most important : your complete Masters / PhD thesis). These template	single piece of work you'll produce as a student (whether s, many provided by the university themselves as official tment, supervisor, year, etc) along with placeholder chapt ices.	layout guidelines, include sections for you to add all			
			ant kan kan a Fugar dite pukul kasaari das te High Kasa Mara manani na kan kan kasa ka kan juga ka Juga da Ma			
	novold-LaTeX-KOMA-template	Piantilia de tesis UNAC	Pady d'Mension Lubergy Bachelor's thesis (Mathematical Information Tec.	C		

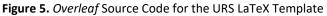
Figure 4a. Thesis Gallery



Figure 4. Related Tags

3. Click on the template that says **Texas A&M LAUNCH URS Thesis Template**, and then click on **Open as Template**. That should automatically add that template to your list of projects and open it from your profile. You will see an environment similar to this:





4. As seen in the left-hand side of the Source Page in Figure 5, there is a folder called data, and nested beneath it are the various sections for the thesis (which is where the bulk of the editing will occur). There is also another folder called figures where you will be putting the figures that will be included in your thesis (see page 21, item 2). Finally, you will see the 2324URSTemplate source file. This file compiles all your edits and additions in the data folder into the pdf file you see on the right half of the screen. Because the 2324URSTemplate.tex file mainly compiles, you will not be doing any editing to its source file as that may cause some compiling errors unless you are

planning on adding some packages to the preamble, but that will be expanded upon later.

The following section will walk you through the required edits for each file within the **data** folder. These edits are necessary to make your thesis congruent with the requirements of the URS Program.

4. Editing the Thesis Components

The following sub-sections provide detailed, step-by-step instructions on how to use the various functions and features of the *Overleaf* URS Template. Here is a broad overview of the thesis sections that you will be updating:

The URS Thesis Template in Overleaf

4.1 Required Preliminary Pages

01-TitlePage

02-ResearchComplianceCert

03-ToC

04-Abstract

06-Acknowledgments

4.2 Optional Preliminary Pages

05-Dedication

07-Nomenclature

4.3 Required Body Text

08-Chapter1

09-Chapter2

10-Chapter3

11-Chapter4

4.4 Required References Page

12-References

4.5 Optional Appendices

13-Appendix

4.1 Required Preliminary Pages

01-TitlePage.tex

This file contains the code controlling the appearance of your title page. Only edit the sections that are highlighted. The other pieces of code on this page are just there to make your edits work, so do **not** change those. You will only need to **edit section 5**. Nonetheless, the other sections are explained below for your benefit.

1. <u>Section 0: No edits are needed</u>. The sole purpose of this section is to begin the title page and place the title at the center of the page.

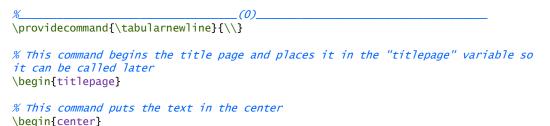


Figure 6. Section 0 of the Source Code for the Title Page File

- 2. <u>Section 1: No edits are needed</u>. This section takes care of the spacing between the texts in your title and capitalizes the text.
- Section 2: No edits are needed. This section plugs in your name from the 2324URSTemplate file and places it in its respective location in the title page.
- 4. <u>Section 3: No edits are needed</u>. This section inserts "Submitted to the Undergraduate Research Scholars....the designation as an" subtitle to the title page.
- Section 4: No edits are needed. This section capitalizes and places "\tamudegree" taken from the 2324URSTemplate file, which is Undergraduate Research Scholar in this case, in the center of the title page.
- 6. Section 5: Edit the highlighted portions in Figure 7. Furthermore, the text between the two square brackets that says "Insert Dr. Full Name of Primary Faculty Advisor" is where you will insert your advisor's name. If you have a co-advisor/secondary advisor, then go ahead and add his/her/their name to the designated section. If you do not have a secondary advisor, you can either comment that line out by putting a "%" in front of it, or simply delete the text in between the two red square brackets in Figure 7.

```
(5)
%
% 5) This is the section where you insert your research advisor(s)
% THIS EXAMPLE SHOWS HOW TO ADD TWO ADVISORS. IF YOU ONLY HAVE ONE, YOU
CAN DELETE THE SECONDARY ADVISOR SLOT. HOWEVER, IF YOU HAPPEN TO HAVE TWO,
PLEASE MAKE SURE TO INCLUDE YOUR SECONDARY ADVISOR IN THE ABSTRACT SECTION
(SEE ABSTRACT SECTION FOR MORE DETAILS).
\begin{flushleft}
Approved by \\
Faculty Research [Choose an item: Advisor/s]: \hfill [Type Dr. Full Name
of Primary Faculty Advisor]} \\
\hfill
         [Type Dr. Full Name of Secondary Faculty Advisor OR remove
line]
\end{flushleft}
\end{singlespace}
\vspace{2em}
```

Figure 7. Section 5 of the Source Code for the Title Page File

Sections 6 and 7: No edits are needed. Section 6 places the date you finish the URS program in the title page, and section 7 places your major(s) in the title page as well. Once again, they are both imported from their respective sections in the 2324URSTemplate.

02-ResearchComplianceCert.tex

This page reflects the completion of the research compliance certification. You will need to edit this page as instructed in sections 1 and 2 to make sure it accurately reports your research compliance status.

03-ToC.tex

This file contains the code that will control the appearance of your table of contents (ToC). You will **not** be doing any edits here. Some of you may need a list of figures or a list of tables (or both) after your table of contents. You can simply uncomment those sections in this file and modify them accordingly.

04-Abstract.tex

This file contains the code that will control the appearance of your abstract. Furthermore, the code file (along with the required edits) is divided into the following sections:

1. <u>Section 0: No edits are needed</u>. This section puts the word "Abstract" in the center of the page, capitalized and boldfaced. Additionally, it links the abstract to the table of contents.

 Section 1: Edit the title of the abstract. You will need to update the text that is highlighted in Figure 8 without modifying the formatting. In other words, you will just be replacing the text between the two square brackets "Type Thesis Title Using Title Case" with your abstract title. Do NOT delete the double slash, since that ensures long abstract titles are divided into two lines.

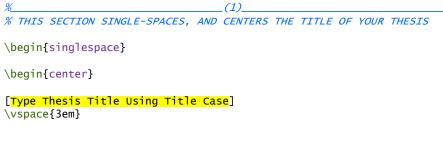


Figure 8. Section 1 of the Source Code for the Abstract File

3. <u>Section 2: Replace the highlighted text in Figure 9</u> with your name and the name of your department. Add your teammates along with their department affiliations as well if you belong to a team.

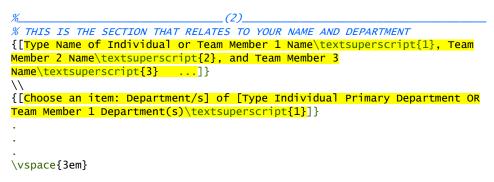


Figure 9. Section 2 of the Source Code for the Abstract File

4. <u>Section 3: Replace the highlighted text in Figure 10</u>. Furthermore, you will need to replace the place-holder text with your faculty advisor's name and their department. If you happen to have more than one advisor, copy the section marked by the red curly brackets in **Figure 10** and modify it accordingly.

% _(3)_ % THIS IS THE SECTION THAT RELATES TO YOUR ADVISOR'S NAME AND DEPARTMENT % THIS EXAMPLE SHOWS HOW TO ADD ONE ADVISOR. HOWEVER, IF YOU HAPPEN TO HAVE TWO, PLEASE MAKE SURE TO INCLUDE YOUR SECONDARY ADVISOR AS ANOTHER SLOT. IF BOTH ADVISORS ARE IN THE SAME DEPARTMENT, YOU MAY INCLUDE BOTH THEIR NAMES ON THE SAME LINE; HOWEVER, IF THEY BELONG TO TWO DIFFERENT DEPARTMENTS, THEN EACH ADVISOR MUST BE INSERTED AS THEIR OWN ENTRY. SIMPLY COPY AND PASTE THE TEMPLATE BELOW AND MODIFY ACCORDINGLY. Research Faculty Advisor: [Type Dr. Full Name of Primary Research Advisor] {[Choose an item: Department/s]} of [Type Primary Faculty Advisor Department] $\backslash \backslash$ Texas A\&M University \vspace{1em} \end{center} \end{singlespace} \pagestyle{plain} % No headers, just page numbers \pagenumbering{arabic} % This determines the page numbering to use arabic numerals \setcounter{page}{1} % Sets the page counter to be 1; i.e., the Abstract is the first page

Figure 10. Section 3 of the Source Code for the Abstract File

5. Section 4: Add the text for the abstract. Replace the highlighted sections in Figure 11 with the text of your abstract. Remember your abstract should not exceed 350 words and should, therefore, summarize your work. That is why it is typically the *last* section to fill out. Additionally, do not forget to double indent (by inserting the command \indent twice) to each newly added paragraph, so the appearance of the paragraphs in the recompiled pdf is formatted correctly.

%_______(4)______ % THIS IS THE SECTION WHERE YOU TYPE IN THE TEXT RELATED TO YOUR ABSTRACT. NOTICE THE DOUBLE \indent COMMAND THAT PROPERLY INDENTS THE BEGINNING OF EACH PARAGRAPH

\indent \indent [Type your Abstract. Your Abstract must be a "complete snapshot" of your manuscript and be a stand-alone piece. Since the text of the Abstract will be distributed widely through a variety of databases, formal citations, images, and complex equations should not be included. The Abstract should be between 250 and 500 words.

\indent \indent The Abstract is a stand-alone section that appears in public databases without your thesis document and should not contain citations.

\indent \indent The Abstract page is the first page of your document and will use Arabic page numbers starting with page 1. The rest of the pages in your document should continue with these Arabic numbers, including your appendices, if included. Including this text, these three paragraphs are 120 words.]

Figure 11. Section 4 of the Source Code for the Abstract File

06-Acknowledgements.tex

This file contains the code that will control the appearance of your acknowledgements, should you choose to have one. If not, you can comment out this entire section. Otherwise, see the following steps to correctly modify this section:

1. <u>Section 0: Remove the highlighted parts seen in the Figure 14</u>. Otherwise, no further changes are needed in this section.

```
% (0)
% THIS LINE PUTS "ACKNOWLEDGMENTS" AT THE TOP OF THE PAGE, BOLD-FACED AND
14-PT
\chapter*{\large\bf ACKNOWLEDGMENTS}
% THIS LINE ADDS THE ACKNOWLEDGMENTS TO THE TABLE OF CONTENTS
\addcontentsline{toc}{chapter}{ACKNOWLEDGMENTS}
% Needs to be set to part, so the TOC doesn't add 'CHAPTER ' prefix in the TOC.
```

Figure 14. Section 0 of the Source Code for the Acknowledgments File

 Sections 1, 2, and 3: Add the text for the acknowledgements. Replace the highlighted sections in Figure 15 with the text for your acknowledgements. Additionally, do not forget to double indent (by inserting the command \indent twice) to each newly added paragraph, so the appearance of the paragraphs in the recompiled pdf is formatted correctly.

%______(1)______%
% [INSTRUCTIONS FOR REQUIRED ACKNOWLEDGEMENTS PAGE.]

\indent\indent The first part of the Contributors Section will name all faculty advisor(s). The second part will acknowledge individual student contributions and/or the contributions of others

\indent\indent The Funding Section includes all support that was provided by the university, or any other source, to conduct your thesis, research, and compilation. If you received no funding, state that here.

\indent\indent The wording on below can be used as an example. You may be required to use specific language from your granting agency or fellowship program. Be sure to check your program guidelines and consult your faculty advisor when drafting the Acknowledgements page.

(2)

 $\noindent\textcolor{red}{\textbf {SAMPLE CONTRIBUTORS SECTION TEXT (MODIFY AS NEEDED)}}$

//

\textbf{Contributors}

\indent\indent I would like to thank my faculty advisor, Dr. [XXXX], and my [XXXX], [XXXX], for their guidance and support throughout the course of this research.

\indent\indent Thanks also go to my friends and colleagues and the department faculty and staff for making my time at Texas A&M University a great experience. \indent\indent Finally, thanks to my [XXXX] for their encouragement and to my [XXXX] for her/his/their patience and love.

\indent\indent The [DATA/MATERIALS/etc.] analyzed/used for [MANUSCRIPT TITLE] were provided by [NAME - can be the names of other faculty, graduate students, lab, lab members, teammates, etc. who contributed to specific aspects of the project]. The analyses depicted in [MANUSCRIPT TITLE] were conducted in part by [NAME - can be the name of a department, lab, research group, etc.] and were published in [YEAR] [OR and these data are unpublished]. $\backslash \backslash$ \indent\indent All other work conducted for the thesis was completed by the student independently. $\backslash \backslash$ % (3)\noindent\textcolor {red}{\textbf{SAMPLE FUNDING SOURCES SECTION TEXT (MODIFY AS NEEDED) } } $\backslash \backslash$ \textbf{Funding Sources} $\langle \rangle$ \indent\indent Undergraduate research was supported by [XXXX] at Texas A&M University and an additional research fellowship from [XXXX].

\indent\indent This work was also made possible in part by [FUNDING SOURCE] under Grant Number [INSERT GRANT NUMBER]. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the [NAME OF AWARDING OFFICE]. NOTE: If you received no funding, state that here instead.

Figure 15. Section 1 of the Source Code for the Acknowledgments File

After adding the relevant information, you may delete the instructions on the acknowledgments page as well as the text in red so that the text no longer appears in the pdf upon recompiling.

4.2 Optional Preliminary Pages

05-Dedication.tex

This file contains the code that will control the appearance of your dedication should you choose to have one. If not, you can comment out this entire section. Otherwise, see the following steps regarding correctly modifying this section:

1. <u>Section 0: Remove the highlighted parts in Figure 12</u>. Otherwise, no further changes are needed in this section.

% THIS LINE ADDS THE DEDICATION TO THE TABLE OF CONTENTS \addcontentsline{toc}{chapter}{DEDICATION}

Figure 12. Section 0 of the Source Code for the Dedication File

 Section 2: Add the text for the dedication. Furthermore, replace the highlighted sections in Figure 13 with the text for your dedication. Additionally, do not forget to double indent (by inserting the command \indent twice) to each newly added paragraph, so the appearance of the paragraphs in the recompiled pdf is formatted correctly. For Section 1, delete the instructions when you are done with the dedication page.

%(2)
% THIS IS THE SECTION WHERE YOU TYPE IN THE TEXT RELATED TO YOUR
DEDICATION. MODIFY SAMPLE WORDING FOR DEDICATION PAGE OR REMOVE THIS
OPTIONAL PAGE. INCLUDES EXAMPLE OF FORMATTED DEDICATION STATEMENT.

\textcolor{red}{\textbf{SAMPLE DEDICATION TEXT (MODIFY AS NEEDED)}}

\begin{center}
\emph{To our families, instructors, and peers who supported us throughout
the research process.}
\end{center}

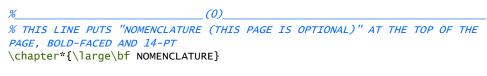
Figure 13. Section 1 of the Source Code for the Dedication File

After adding the relevant information, delete the line \textcolor{red}{\textbf{SAMPLE DEDICATION TEXT (MODIFY AS NEEDED)}} as well as the dedication instructions so that they no longer appear in the pdf upon recompiling.

07-Nomenclature.tex

This file contains the code that will control the appearance of your nomenclature, should you choose to have one. If not, you can comment this entire section. Otherwise, see the following steps to correctly modify this section:

1. <u>Section 0</u>: No further changes are needed in this section.



% THIS LINE ADDS THE NOMENCLATURE TO THE TABLE OF CONTENTS \addcontentsline{toc}{chapter}{NOMENCLATURE}

Figure 16. Section 0 of the Source Code for the Nomenclature File

2. Section 1: Add the text for the nomenclature. Replace the highlighted sections in

Figure 17 with the text for your nomenclature. If you need to add more

nomenclatures, copy and paste an entire row of the nomenclature code and modify accordingly.

%(1) % THIS IS THE SECTION WHERE YOU TYPE IN THE TEXT RELATED TO YOUR NOMENCLATURE. NOTICE THE DOUBLE \longtable COMMAND THAT HELPS IN ORGANIZING YOUR NOMENCLATURE INTO A "TABLE" OF SORTS (WHICH ALSO TAKES CARE OF THE TEXT ALIGNMENT)						
% thems % No e>	te about aligning: These entries will align selves according to the ampersand (&). xtra spaces are needed, as seen in some of entries below.					
spacing	<i>he longtable environment.</i> }{1.0} longtable}[htbp]{@{}p{0.35\textwidth} p{0.62\textwidth}@{}}					
B/CS TAMU HSUS P T FFT TVA TXDOT O\&M L^1 L^2 PC(S) [2ex]	&\hspace{-1.5in}Bryan and College Station\\ [2ex] %[2ex] provides double space between each row &\hspace{-1.5in} Texas A\&M University\\ [2ex] &\hspace{-1.5in} Humane Society of the United States\\ [2ex] &\hspace{-1.5in} Pressure\\ [2ex] &\hspace{-1.5in} Time\\ [2ex] &\hspace{-1.5in} Fast Fourier Transform\\ [2ex] &\hspace{-1.5in} Tennessee valley Authority\\ [2ex] &\hspace{-1.5in} Tennessee valley Authority\\ [2ex] &\hspace{-1.5in} Eller Oceanography and Meteorology Building\\ [2ex] &\hspace{-1.5in} Space of absolutely Lebesgue integrable functions; i.e., \$\int f < \infty\$\\ [2ex] &\hspace{-1.5in} Space of square-Lebesgue-integrable functions, i.e., \$\int f ^2 < \infty\$\\ [2ex] &\hspace{-1.5in} Space of piecewise-continuous functions on \$\$\$\\					
\setcounte long \end{spacing}	er{table}{0} table}					

Figure 17. Section 1 of the Source Code for the Nomenclature File

After adding the relative information, you may delete the instructions for the nomenclature page so that it no longer appears in the pdf upon recompiling.

4.3 Required Body Text

08-Chapter1.tex

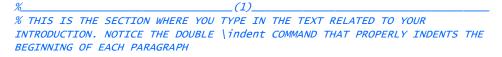
This file contains the code that will control the appearance of your introduction. See the following steps to correctly modify this section:

1. Section 0: No edits are needed in this section.

%_						_(0))						
%	THIS	LINE	PUTS	"1.	INTRODUCTION"	AT	THE	тор	OF	THE	PAGE,	BOLD-FACED	AND
14	-PT												
\c	hapte	r{INT	roduc		N}								

Figure 18. Section 0 of the Source Code for the Introduction File

 Section 1: Add the text for the introduction. Replace the highlighted sections in Figure 19 with the introduction text. Additionally, do not forget that for each new paragraph you enter, double indent (by inserting the command \indent twice) so that the appearance of the paragraphs in the recompiled pdf is formatted correctly.



\indent \indent Paragraph one starts here. If you want to break up your paragraphs into more sections, you can use first order, second order or third order subheadings.

%____

%

% First order subheadings (remove/add as needed)
\vspace{-0.4em} % This line is added to preserve the double-spaced environment
since the \section command adds an extra space

\section*{First order subheadings (optional, remove/add as needed)} %The command
\section defines your first order subheading

\vspace{-0.4em} % This line is added to preserve the double-spaced environment since the \section command adds an extra space

Figure 19a. Section 1 of the Source Code for the Introduction File

\indent \indent Directly above is a first order subheading. Note that first order subheadings are bold. If you feel that the information under a first order subheading needs to be split into more sections, use additional subheadings. Take note that all first order subheadings must be included in the Table of Contents. Second and third order subheadings are NOT to be included in the Table of Contents.\footnote {Yes, this is how you do a footnote in LaTeX.}

[%] Second order subheadings (remove/add as needed)
\noindent \textit{Second order subheadings (remove/add as needed)}
% The command \textit italicizes the text

\indent \indent Note that second order subheadings are italicized. This information still pertains to your first order subheading. If you need to break up content even further, you can use one last level of subheadings, called third order subheadings.

% Third order subheadings (remove/add as needed) \noindent Third order subheadings (remove/add as needed)

\indent \indent Note that third order subheadings are regular. This information still pertains to your first order subheading, but is directly related to your second order subheading.

\indent\indent This subsection tests the usage of references. The book \cite{REALCAR} is referred in this way. Actually, the option is available for you to change the default way of how references appears. The default and most commonly used option \cite{einstein} is displayed here \cite{Barn-JORVQ}.

\indent\indent Unrelated citations are referred here just for the sake of testing the reference section only \cite{TAMU}. If you find that the reference \cite{GIGEM} has more items than you need \cite{WAGFJ}, question marks will show up in place of a reference handle, like these \cite{Over9000}.

Figure 19b. Section 1 of the Source Code for the Introduction File

3. <u>Section X</u>: Section X adds another first order subheading to the table of contents just for demonstration purposes. If you have another first order subheading in your introduction, copy and paste the highlighted part of **Figure 20**.

```
%______(X)_____
% Another first-order subheading (remove/add as needed)
% THIS LINE ADDS ANOTHER FIRST ORDER SUBHEADING TO THE TABLE OF CONTENTS
(REMOVE/ADD AS NEEDED)
\section{Another first-order subheading (remove/add as needed)}}
\vspace{-0.4em}
\indent\indent [Type content here.]
```

Figure 20. Section X of the Source Code for the Introduction File

09-Chapter2.tex

This file contains the code that will control the appearance of your methods section. See the following steps regarding correctly modifying this section:

 Section 0: Remove the highlighted part seen in Figure 21 if you are satisfied with the designation "Methods". If not, you can replace it with another appropriate designation. Otherwise, no further changes are needed in this section.

%______(0)______ % THIS LINE PUTS "2. METHODS" AT THE TOP OF THE PAGE, BOLD-FACED AND 14-PT \chapter{METHODS}

Figure 21. Section 0 of the Source Code for the Methods File

- Section 1: Add the text for the methods. Replace the highlighted sections in Figure
 22a with the text for the methods. Additionally, do not forget that for each new paragraph you enter, double indent (by inserting the command \indent twice) so that the appearance of the paragraphs in the recompiled pdf is formatted correctly.
 - a. Under subheading 1 in **Figure 22a**, there is an example about how to attach a figure (marked by the purple curly brackets). The only sections you need to modify, should you need a figure, are the name of the file (highlighted in yellow and underlined in purple) that you intend to import from the **figures** folder and the caption of the figure (also highlighted in yellow and underlined in purple). Remember, the figures that you intend to import must be in the **figures** folder.

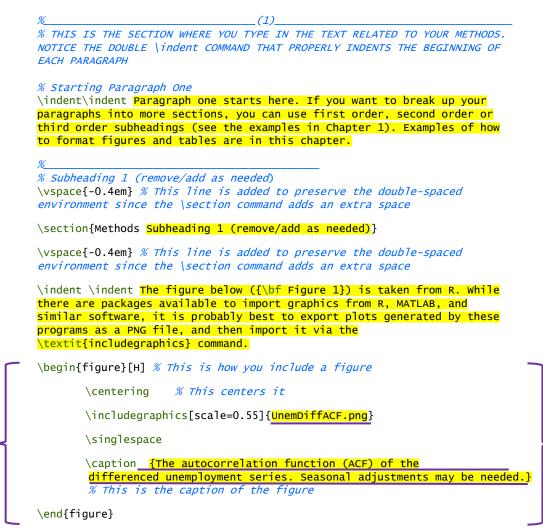


Figure 22a. Section 1, Subheading 1 of the Source Code for the Methods File

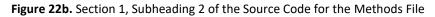
\indent \indent You must scale the figures so that they fit within the
prescribed margins. All the figures included in this document have been
scaled. It is best to use PNG and JPEG files for figures.
%

%

Figure 22a (continued). Section 1, Subheading 1 of the Source Code for the Methods File

b. Under subheading 2 in Figure 22b, there is an example about how to create a table (marked by the purple curly brackets). The only sections you need to modify, should you need a table, are the name of the table (or its caption – which is highlighted) and the actual content of the table (also highlighted). If you need to add more rows, copy a row, and modify it accordingly. If you need more columns, add an additional "|1|" in the designated location (highlighted in yellow and underlined in purple in Figure 22b).

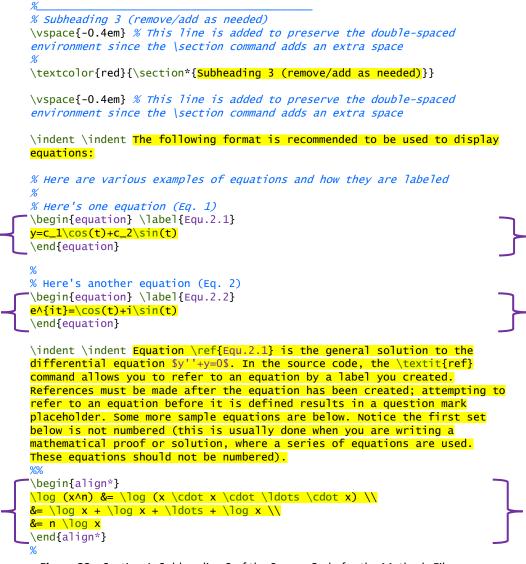
```
% Subheading 2 (remove/add as needed)
\vspace{-0.4em} % This line is added to preserve the double-spaced
                  environment since the \section command adds an extra space
\textcolor{red}{\section*{Subheading 2 (remove/add as needed)}}}
\vspace{-0.4em} % This line is added to preserve the double-spaced
                  environment since the \section command adds an extra
                  space
% THIS LINE ADDS ANOTHER FIRST ORDER SUBHEADING (SUBHEADING 2) TO THE
TABLE OF CONTENTS (REMOVE/ADD AS NEEDED)
\addcontentsline{toc}{section}{\vspace{-0.9em}\hspace{4.2em}
\textcolor{red}{Subheading 2 (remove/add as needed)}}
\indent\indent Here is an example of a properly formatted table and table
title ({\bf Table 1}):
                  % This is how you include a table
begin{table}[h!]
    \caption{Example of a properly formatted table and title} % This is the
    caption of the table
    \centering % This centers it
    \label{table:1}
    \begin{tabular}{||||||||} % Each "1" corresponds to a column in the table.
                                % Hence, the total number of "1 corresponds to
                                % the number of columns your table will have.
         \hline
         \bf{Heading 1} & \bf{Heading 2} & \bf{Heading 3} & \bf{Heading 4}
         \\ \hline
         Content example. & Content example. & Content example. & Content
         example. \\ \hline
         Content example. & Content example. & Content example. & Content
         example. \\ \hline
    \end{tabular}
\end{table}
```

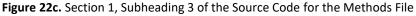


\indent \indent Be sure to reference all figures and tables in your body
text within one page of where the figure/table appears.
%
%

Figure 22b (continued). Section 1, Subheading 2 of the Source Code for the Methods File

c. Under subheading 3 in Figure 22c, there is an example about how to create an equation (marked by the purple curly brackets). The only sections you need to modify, should you need an equation, are highlighted in yellow. More than one example is provided to give you an idea of a variety of possible equations and how they might look. Feel free to modify these equations or add additional ones, should you need any.





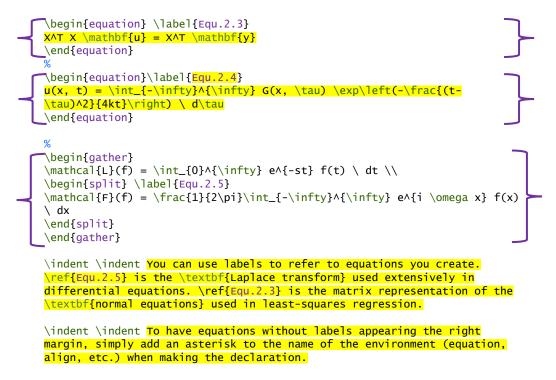


Figure 22c (continued). Section 1, Subheading 3 of the Source Code for the Methods File

10-Chapter3.tex

This file contains the code that will control the appearance of your results section. See the following steps regarding correctly modifying this section:

 Section 0: Remove the highlighted part in Figure 23 if you are satisfied with the designation "Results" (If not, you can replace "Results" with another appropriate designation). Otherwise, no further changes are needed in this section (Figure 23).

```
%______(0)______

% THIS LINE PUTS "CHAPTER 3. RESULTS" AT THE TOP OF THE PAGE, BOLD-FACED

AND 14-PT

\chapter{RESULTS}
```

Figure 23. Section 0 of the Source Code for the Results File

- Section 1: Add the text for the results. Replace the highlighted sections in Figure 24a with the text for the results. Additionally, do not forget to double indent (by inserting the command \indent twice) to each newly added paragraph, so the appearance of the paragraphs in the recompiled pdf is formatted correctly.
 - a. Under subheading 1 in Figure 24a, there is an example about how to enumerate a list of items. To enumerate, use \enumerate function as seen in Figure 24a. In this subheading, you only need to modify the parts

highlighted in yellow and/or add more paragraphs. If you need to add more items to your list, copy the row that is in the red square brackets and modify accordingly. If you need to add an additional list, copy the entire section enclosed in the purple curly brackets and modify accordingly.

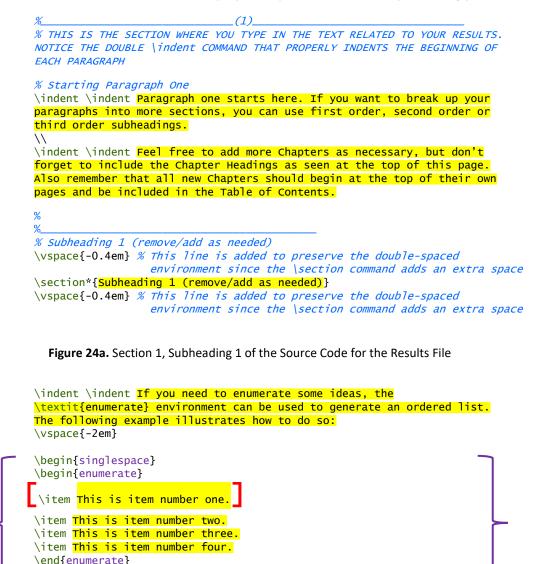


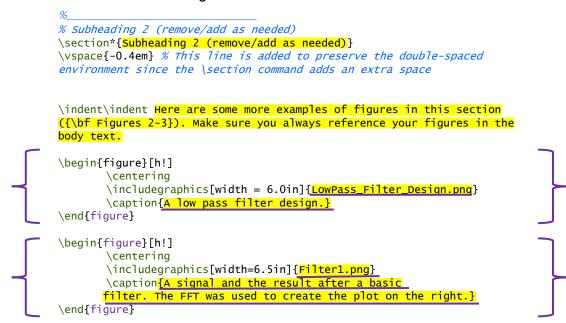
Figure 24a (continued). Section 1, Subheading 1 of the Source Code for the Results File

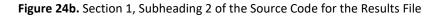
b. Under subheading 2 in Figure 24b, there is an example about how to attach a figure (marked by the purple square brackets). The only sections you need to modify, should you need a figure, are the name of the file (highlighted in yellow and underlined in purple) that you intend to import from the figures folder and the caption of the figure (also highlighted in yellow and

\end{singlespace}
\vspace{-1em}

%

underlined in purple). Remember, the figures that you intend to import must be in the **figures** folder.





11-Chapter4.tex

This file contains the code that will control the appearance of your conclusion section. See the following steps to correctly modifying this section:

 Section 0: Remove the highlighted parts seen in Figure 25 if you are satisfied with the designation "Conclusion". (If not, you can change "Conclusion" to another appropriate designation). Otherwise, no further changes are needed in this section.

```
%______(0)______

% THIS LINE PUTS "4. CONCLUSION" AT THE TOP OF THE PAGE, BOLD-FACED AND

14-PT

\chapter{CONCLUSION}
```

Figure 25. Section 0 of the Source Code for the Conclusion File

 Section 1: Add the text for the conclusion. Replace the highlighted sections in Figure 26 with the text for the conclusion. Additionally, do not forget that for each new paragraph you enter, double indent (by inserting the command \indent twice so that the appearance of the paragraphs in the recompiled pdf is formatted correctly. \indent \indent Paragraph one starts here. If you want to break up your paragraphs into more sections, you can use first order, second order or third order subheadings.

Figure 26. Section 1 of the Source Code for the Conclusion File

 Section X: Section X adds another first order subheading to the table of contents (just for demonstration purposes). If you have another first order subheading in your conclusion, copy and paste the highlighted part of Figure 27.

%_______(X)______ % THIS SECTION IS JUST AN EXAMPLE OF HOW TO ADD FIRST ORDER SUBHEADINGS TO THE TABLE OF CONTENTS. IF YOU DO HAPPEN TO HAVE/NEED MORE SUBHEADINGS IN THIS SECTION, MAKE SURE YOU ADD THE LINE OF CODE BELOW (PER SUBHEADING) TO THE APPROPRIATE SECTION IN YOUR CODE, SIMILAR TO HOW IT IS DEMONSTRATED IN THE METHODS AND RESULTS SECTIONS.

% \section{Another Subheading}

Figure 27. Section X of the Source Code for the Conclusion File

4.4 Required References Page

12-References.bib

This file is a "bib" file that can be directly imported from EndNote. To add your references to your thesis, you can either import your references from EndNote under the file name "MyReference.bib" and use it to replace the bib file in *Overleaf*, or you can click on the **11-MyReference** file and manually modify the fields for your references (and add more if need be). An example of the fields you will be modifying are provided in **Figure 28**. *Overleaf* will subsequently compile the references into IEEE format.

@article [{ <mark>einstein</mark>],	
Title	<pre>= {{Zur Elektrodynamik bewegter K{\"o}rper}. ({German})</pre>
[{On} the electrodynamics	of moving bodies]},
Author	= { <mark>Albert Einstein</mark> },
Journal	= { <mark>Annalen der Physik</mark> },
Year	$= \{\frac{1905}{2}\},$
Number	$= \{\frac{10}{2}\},$
Pages	$= \{\frac{891 - 921}{9}\},$
Volume	$= \{\frac{322}{3}\},$
Doi	<pre>= {http://dx.doi.org/10.1002/andp.19053221004}</pre>
}	

Figure 28. An example for a reference from the References.bib file

Note: Keep in mind that for each reference, you will need to designate a "name" for it, which will be used to cite your reference/article (which is between the two red square brackets in **Figure 28**). As seen in the introduction, we are using "einstein" as the designated name (any name could have been used) for this reference so that when it is cited in text, that name can be used instead of the title of the entire article/reference.

4.5 Optional Appendices

13-Appendix.tex

This file contains the code that will control the appearance of your appendix, should you choose to have one. If not, you can comment this entire section. Otherwise, you can use the instructions from the previous sections to modify/add parts to the appendix. If you need more than one appendix, right-click on the **data** folder on the left-hand side and click on **New File.** Name it Appendix B: Title. Make sure to include it in your compiler file **2324URSTemplate** as well.

Appendix A: Glossary

Table 1 - Glossary

Term	Definition
\addcontentsline{toc}	Adds designated section to the table of contents
\bf	Bold-faces designated text
\chapter	Designates chapter and adds corresponding to the table of contents
\color	Changes color of the section/text
\documentclass	Determines the font and the type of document
\hspace	Controls the magnitude of horizontal spacing
\include	Adds new pages/sections to the master document
\indent	Indents text
\large	Enlarges font to 14 pt
\MakeUpperCase	Capitalizes text
\pagenumbering	Controls page numbering of the master document
\pagestyle	Controls the style of page
\textcolor	Changes the color of the section/text
\usepackage	Imports various code packages
\vspace	Controls the magnitude of vertical spacing