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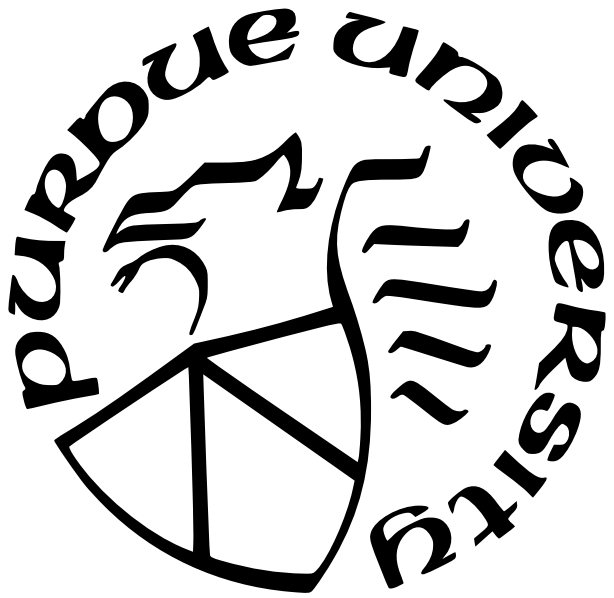
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In Partial Fulfillment of the Requirements for the degree of

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LIST OF ABBREVIATIONS

3-D Three dimensional

AI Artificial intelligence

BIM Building information modeling

CGA Common Ground Alliance

DIRT Damage Information Reporting Tool

EM Electromagnetic

GNSS Global Navigation Satellite System

LOL Laugh out loud

PMU Purdue Memorial Union

TBD To be determined

LIST OF SYMBOLS

α	Alpha
β	Beta
Σ	Sigma
Fe	Iron
H_2O	Water
k_B	Boltzmann constant
$T_{½}$	Half life
ω	Omega

GLOSSARY

Academic Calendar - The calendar is the key dates and deadlines for Purdue. The academic year consist of two 16-week semesters. Summer session(s) may be one 4-week and one 8-week or two 6-week or other configurations as approved by the Provost's Office.

Bursar - The Bursar's Office is your one-stop shop for finding information on student tuition, viewing invoices, making payments and ensuring timely refunds. You can find valuable information regarding tuition, fees, rates and remissions, as well as our tuition calculator.

Commencement - A ceremony at which academic degrees or diplomas are awarded. Degrees are conferred three times a year.

Full-time Student - A student enrolled in 12 or more semester hours per semester. Students must be enrolled full-time to receive most type of institutionally-funded financial assistance.

Registrar - The college or university official who is responsible for registering students and keeping their academic records, such as transcripts.

Transcript - An official record of courses completed and grades earned by an individual student.

ABSTRACT

An abstract is a concise summary of your thesis, which is **REQUIRED** to be included in this document. Although Purdue does not place a limit on the length of an abstract, please try to limit it to one page by concisely and efficiently writing the abstract.

1. INTRODUCTION

Type your introduction here. Each new paragraph is separated from the one before it by a blank line in this file. Before you begin, read the Purdue Thesis and Dissertation Policies and Practices [1] and the LaTeX Project's guide to creating accessible PDFs in LaTeX [2].

1.1 Section heading (first-level subheading)

Paragraph begins here.

2. EXAMPLE CHAPTER

Type your chapter text here. Cite a reference by its key in all-biblatex.bib, like this: LaTeX was designed for documents like this one [3].

2.1 Section heading (first-level subheading)

A block quote is a quote of 40 words or more, or 3 lines of text or more:

> This is an example of a formatted block quote. It is indented 0.5 inch on the left, justified, and 1.5 line spaced. Do not use quotation marks for block quotes. The bracketed citation reference number comes after the closing punctuation mark. [4]

A bulleted list:

- The first item.
- The second item, long enough to show that a wrapped line lines up with the text of the item and not with its bullet.
- The third item.

Footnotes are numbered 1, 2, 3 through the whole document[1]. Do not put footnotes in headings.

2.1.1 Subsection heading (second level subheading)

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Subsubsection heading (third level subheading)

Paragraph begins here.

[1] ↑Footnotes should be brief and concise.

Subsubsubsection heading (fourth level subheading)

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2.2 Figures, tables, schemes, listings, and algorithms

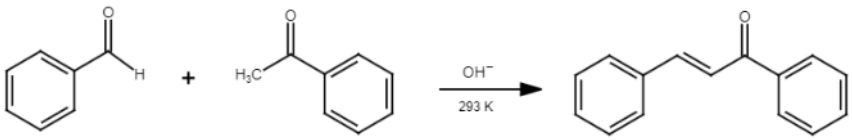
Figure 2.1 is a figure, Table 2.1 a table, Scheme 2.1 a scheme, Listing 2.1 a program listing, and Algorithm 2.1 an algorithm.



Figure 2.1 Sandy San Miguel's 16-inch LEGO model of Purdue Pete. (Purdue University photo).

Table 2.1 Examples of Graduate Degree Programs at Purdue University.

Aeronautics and Astronautics	Health Sciences	Mechanical Engineering	Sociology
Computer Science	Industrial Engineering	Nuclear Engineering	Statistics
Economics	Linguistics	Physics	Technology
Forestry and Natural Resources	Management	Psychological Sciences	Veterinary Clinical Sciences



Scheme 2.1 This is an example of a formatted chapter scheme and caption

```
for i:=maxint to 0 do
begin
    { do nothing }
end;
Write('Case insensitive.');
WritE('Pascal keywords.');
```

Listing 2.1 A Pascal Program

Require: integers $a \geq 0$ and $b \geq 0$, not both zero
Ensure: the greatest common divisor of a and b

function EUCLID(a, b)
  while $b \neq 0$ **do**
    $r \leftarrow a \bmod b$
    $a \leftarrow b$
    $b \leftarrow r$
  end while
  return a
end function

Algorithm 2.1 Euclid's algorithm for the greatest common divisor.

Table 2.2 This is an example of a wide formatted table and caption on a landscape-oriented page.

Example	**Example**	**Example**	**Example**
Example	Example text	Example text	Example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text.
Example	Example text	Example text	Example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text, example text.
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Table 2.3 This is an example of a lengthy formatted table that carries over to another page.

Example	**Example**	**Example**	**Example**
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.
Example	Example text	Example text	Example text, example text.

Table 2.3 continued

Example	**Example**	**Example**	**Example**
Example	Example text	Example text	Example text, example text.

2.3 Equations

Equations are centered and numbered at the right margin by chapter, as equation (2.1) is:

$$f(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right) \tag{2.1}$$

Theorem 2.3.1. *This is an example theorem.*

Proof. This is an example proof. It ends with a box. □

3. CONCLUSION

The conclusion chapter of a thesis or dissertation should provide a summary of your research, core findings, and future research directions.

3.1 Section heading (first-level subheading)

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3.1.1 Subsection heading (second level subheading)

Paragraph begins here.

Subsubsection heading (third level subheading)

Paragraph begins here.

Subsubsubsection heading (fourth level subheading)

Paragraph begins here.

REFERENCES

[1] Purdue Records, Thesis and Dissertation Office. "Thesis and dissertation policies and practices," Purdue University, Accessed: Sep. 29, 2026. [Online]. Available: https://www.purdue.edu/academics/ogsps/thesis/records-and-thesis-resources/thesis-and-dissertation-policies-and-practices/

[2] LaTeX Tagging Project. "Using LaTeX to produce accessible PDF," The LaTeX Project, Accessed: Nov. 14, 2026. [Online]. Available: https://latex3.github.io/tagging-project/documentation/usage-instructions

[3] L. Lamport, *LaTeX: A Document Preparation System*, 2nd ed. Reading Massachusetts: Addison-Wesley, 1994, ISBN: 0-201-52983-1.

[4] M. Goossens, F. Mittelbach, and A. Samarin, *The LaTeX Companion*. Reading Massachusetts: Addison-Wesley, 1994.

PUBLICATIONS

List your publications here, formatted the same as your references.

A. APPENDIX TITLE

Type your appendix text here. Equations in an appendix are numbered by the appendix letter, as equation (A.1) is:

$$E = mc^2 \tag{A.1}$$

A.1 Section heading (first-level subheading)

Paragraph begins here.

A.1.1 Subsection heading (second level subheading)

Paragraph begins here.

Subsubsection heading (third level subheading)

Paragraph begins here.

Subsubsubsection heading (fourth level subheading)

Paragraph begins here.

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Type your professional and educational achievements here, as a narrative or in curriculum vitae form.