Background: Duke Kunshan University (DKU) is an interdisciplinary institution that grants dual undergraduate degrees, an MOE Chinese degree and a degree from Duke University in Durham, United States. The principal structure of DKU majors is robustly interdisciplinary. No student confines their study to a single discipline (for example, biology or economics). Instead, all students engage in broad inquiry related to a subject or question (for example, political economy or global health) and take a wide variety of courses related to that area (for example, in public policy, history, ethics, or economics). As a result, our graduates are prepared to engage in a wide variety of inquiries using multiple methodologies to address complex issues that require interdisciplinary approaches.

This has implications for our vision and expectations of undergraduate theses and design projects, which reflect this broad interdisciplinary training. At DKU, every student completes a two-year project known as signature work which consists of multiple interconnected parts including thematic courses, experiential learning, capstones, and a final product. It seeks to integrate students’ interdisciplinary educational experience and culminates in the creation of a product in a scholarly, creative, or applied nature in leu of an undergraduate thesis or design required by JED. Because DKU encourages students to cultivate their independence and creativity as one of its institutional student learning outcomes, the student-led signature work projects often reflect students’ own particular interdisciplinary interests and training. In addition, signature work has an intensive emphasis on problem-solving and skill-development which is much needed for any interdisciplinary inquiry; thus, students’ final products are evidence of transferrable skills that students have acquired and demonstrated through the 2-year program, rather than content knowledge narrowly defined by disciplinary training.

In sum, while the Chinese major declared with any given student might be construed narrowly, the experience of our students is much broader—and intentionally so. This is a distinctive feature of our curriculum, and this distinctiveness results in broadly interdisciplinary submissions from our graduates’ submitting theses or design projects. We have designed this to prepare our students for a wide variety of graduate programs in China and the West, where interdisciplinary training is a competitive advantage.

**Duke Kunshan University**

**Division of Natural and Applied Sciences**

**SW theses - Template**

Instructions

* Black text – *Do not delete*. Everything in black stays in the document.
* Red text – *Model text*. Replace with your own text, then change the ink color to black.
* Blue text – *Delete*. The blue text is instructional, providing general guidance for what goes into a particular section.

**Overview**

The Title Page, Table of Contents, and Abstract, are the first three pages of the document. The Table of Contents as (iiI), and the Abstract as (ii). (The title page does not include a page number). You should include a single-page Acknowledgements/Dedication and/or Appendix/ces as options. The acknowledgements, or dedication, page is should be the second page, numbered (iii), with the Table of Contents becoming (iv). The appendix/ces or supplemental content pages should follow the source/works cited. The appendix or supplemental content pages should continue with the Arabic numbering. All page numbers must be bottom centered. See next section for an example outline of the document.

Title page

* Title written in ALL CAPS
* The title is centered at the top of the page
* The title cannot exceed three lines
* The word ‘by’ is on its own line
* Your name should be capitalized in its regular way
* The phrases ‘Signature Work submitted for’ are to remain as is
* Enter the date of submission with normal capitalization as Month, Day, Year

Table of Contents

* The table of contents should be left justified, each chapter should be noted, including the page number.

**REMEMBER TO DELETE THIS PAGE BEFORE SUBMISSION**

THESIS TITLE THAT EXTENDS OVER ONE LINE GOES IN INVERTED PYRAMID FORM

by

First Name\_Last Name

Signature Work Product, in partial fulfilment of the Duke Kunshan University Undergraduate Degree Program

*{Enter date of submission with normal capitalization as Month, Day, Year}*

Signature Work Program

Duke Kunshan University

APPROVALS

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*Mentor: First Name, Last Name and Division (without abbreviations) using normal capitalization*

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Marcia B. France, Dean of Undergraduate Studies

**ABSTRACT** *(in English)*

*150 – 200 words*. *An abstract is a brief statement of the problem or the purpose of the research. It should indicate the theoretical work or experimental plan used, summarize principal findings of the research, and point out major conclusions. Appropriate safety information should be included when applicable. This should be the section you write last to be sure that it accurately reflects the content of the document.*

**ABSTRACT** *(in Chinese)*

150 - 200 字。摘要是对问题或研究目的的简要说明。说明所使用的理论工作或实验计划，总结研究的主要发现，并指出主要结论。适用时应包括适当的安全信息。这应该是您最后编写的部分，以确保它准确反映文档的内容。

150 - 200 Zì. Zhāiyào shi duì wèntí huò yánjiū mùdì de jiǎnyào shuōmíng. Shuōmíng suǒ shǐyòng de lǐlùn gōngzuò huò shíyàn jìhuà, zǒngjié yánjiū de zhǔyào fāxiàn, bìng zhǐchū zhǔyào jiélùn. Shìyòng shí yīng bāokuò shìdàng de ānquán xìnxī. Zhè yīnggāi shì nín zuìhòu biānxiě de bùfèn, yǐ quèbǎo tā zhǔnquè fǎnyìng wéndàng de nèiróng.

ACKNOWLEDGEMENTS

*Individuals and organizations who helped with the research project and provided financing are thanked in a paragraph of the thesis. Do not include individual titles in the acknowledgments. However, it is appropriate to state grant numbers and sponsors. Examples would like SELF, SRS, SW Grants, etc.*

TABLE OF CONTENT

[**ABSTRACT 3**](#_Toc93021168)

[**ABSTRACT 3**](#_Toc93021169)

[**ACKNOWLEDGEMENTS 4**](#_Toc93021170)

[**TABLE OF CONTENT 5**](#_Toc93021171)

[**LIST OF TABLES 6**](#_Toc93021172)

[**TABLE OF FIGURES 7**](#_Toc93021173)

[**INTRODUCTION 8**](#_Toc93021174)

[**MATERIAL AND METHODS 9**](#_Toc93021175)

[**RESULTS 10**](#_Toc93021176)

[**DISCUSSION 11**](#_Toc93021177)

[**CONCLUSIONS 12**](#_Toc93021178)

[**REFERENCES 13**](#_Toc93021179)

[**APPENDICES 14**](#_Toc93021180)

[**APPENDIX A: 15**](#_Toc93021181)

LIST OF TABLES

[Table 1 Parameters for the optimization of the principal component analysis for olive oil adulteration 10](#_Toc93020061)

*First add captions to your Tables. Right-click on the text above and select Update Field to update this list. Word then searches the document for your captions and automatically adds a list of tables, sorted by page number. The captions must be formatted as in the DNAS SW Style Guide*.

TABLE OF FIGURES

[Figure 1 The notorious BTC (Brandon the Cat) 10](#_Toc93020444)

*First add captions to your figures. Right-click on the text above and select Update Field to update this list. Word then searches the document for your captions and automatically adds a list of figures, sorted by page number. The captions must be formatted as in the DNAS SW Style Guide*.

INTRODUCTION

*This section includes a clear statement of the problem and the reasons for studying it. Provide a detailed yet concise background discussion of the problem and the significance, scope, and limits of the work. Outline what has been done previously by citing truly pertinent literature but do not include a general survey of semi-relevant literature.  State how your work differs from earlier work in the field and demonstrate the continuity from the previous work to your own.*

MATERIAL AND METHODS

*This section is obviously discipline specific so use the nomenclature that is common for your discipline. However, this section should provide sufficient detail about the materials and the methods used so that other experienced workers can repeat the experiment and obtain comparable results. Cite the appropriate literature when using a standard method or protocol and give only the details needed. Identify the materials used in the research. For example, computer systems used, mathematical theorems exploited, etc.; give information on the purity of all chemicals and reagents employed in the research; include the chemical/biological names of all compounds and chemical formulas of substances that are new or uncommon. Use standard systematic nomenclature to unambiguously define well-established compounds, processes, equipment, etc.*

RESULTS

*Summarize the data collected in this section, and their statistical treatment. Include only relevant data, but give sufficient detail to justify the conclusions.  It is appropriate in this section to use equations, figures, and tables to display your data. Extensive, but relevant data, should be reserved for an appendix where it is identified as supporting information.*

*The table or figure must follow as closely as possible after the paragraph in which it is referenced. Titles/captions should be kept brief.*

Table 1 Parameters for the optimization of the principal component analysis for olive oil adulteration

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| *Replace* | *With* | *Your* | *Table* |
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*(Replace with your figure)*

Figure 1 The notorious BTC (Brandon the Cat)

DISCUSSION

*The discussion section is where you interpret and compare the results. The objective is to point out the features and limitations of the work. Relate your results to current knowledge in the field and to the original purpose for undertaking the project.*

CONCLUSIONS

*This section is written to put the interpretation of the results into the context of the original problem.  Do not repeat the discussion points or include irrelevant material. The conclusion should be based on the evidence presented.*

REFERENCES

*Many bibliographic styles are acceptable for publications in the natural sciences. Only for the sake of having one standard across all disciplines, you should use this one:*

*Body: Superscripted Number. {e.g. Nucleotide excision repair (NER) is a versatile, error-free mechanism to identify and remove a wide assortment of chemically unrelated lesions.18 NER can be classified into two sub-pathways based on the way DNA lesions are identified.19 In transcription coupled NER (TC-NER), damaged DNA is identified by the stalling of RNA polymerases when they encounter bulky covalent DNA lesions.20*

*Journal Article: Evans, D. A., Fitch, D. M., Smith, T. E., Cee, V. J. Application of Complex Aldol Reactions to the Total Synthesis of Phorboxazole B. J. Am. Chem. Soc.****2000,****122, 10033-10046.*

*Book: Anastas, P. T., Warner, J. C. Green Chemistry: Theory and Practice; Oxford University Press: Oxford, 1998.*

APPENDICES

APPENDIX A: **APPENDIX TITLE**