OUC Thesis Template
English User Guide

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1 Overview

The `oucthesis` class is a LaTeX template for undergraduate and graduate theses at Ocean University of China (OUC). It follows the university's official requirements for thesis formatting. Source repository: GitHub.

2 What's in the repo

Category	File	Description
Template	`oucthesis.dtx`	Documented source (developers only; generates the class and this manual).
	`oucthesis.cls`	Document class.
	`oucextra.sty`	Extra macros used by the template.
	`oucauthoryear.bst`	Author–year bibliography style.
	`oucnumerical.bst`	Numerical bibliography style.
	`figures/ouc_*.pdf`	University name and emblem images.
Generated	`oucthesis.pdf`	The Chinese manual (from the .dtx).
Examples	`main.tex`	Example thesis main file.
	`chapters/*.tex`	Example chapters.
	`figures/`	Image folder.
	`bib/ouc.bib`	Example BibTeX database.
Other	`README.md`	Basic notes.
	`Makefile`	Build recipes.

3 Requirements

- TeX distribution: TeX Live/MacTeX/MiKTeX (2015 or newer).
- Engines: XeLaTeX recommended (UTF-8 source and `xeCJK` for Chinese).
- Packages used by the class include: `amssymb`, `caption`, `calc`, `ctex`, `etoolbox`, `fancyhdr`, `geometry`, `hyperref`, `natbib`, `pifont`, `titletoc`, `tikz`, `upgreek`, `xparse`.

4 Build options

Use one of the following:

GNU make Build thesis: `make`. Build Chinese manual: `make doc`.

latexmk Build thesis: `latexmk -xelatex main`. Build Chinese manual: `latexmk -xelatex oucthesis.d`
Build this English guide: `latexmk -xelatex oucthesis_en.tex`.

Manual Thesis: `xelatex main` → `bibtex main` (if using BibTeX) → `xelatex main` → `xelatex main`.

5 Class options

Declare the class in your thesis main file, e.g.:

```
\documentclass[doctor,english,pdf]{oucthesis}
```

Options:

Type	Option	Meaning
Required	`bachelor`	Undergraduate thesis
	`master`	Master's thesis
	`doctor`	Doctoral thesis
Optional	`professional`	Professional degree
	`chinese`	Chinese (default)
	`english`	English
	`print`	Double-sided print mode (default)
	`pdf`	Single-sided; keep hyperlink colors
	`super`	Superscript numeric citations (default)
	`numbers`	Inline numeric citations
	`authoryear`	Author–year citations

Other options (e.g. `fontset=fandol`) are forwarded to `ctexbook`.

6 Fonts

Chinese

Chinese is supported via `xeCJK` (not the legacy CJK). Save your source as UTF-8 and compile with XeLaTeX. `ctex` auto-detects your OS and picks a default Chinese font set (Apple CJK on macOS; Zhongyi + Microsoft YaHei on Windows Vista+; Zhongyi on XP and earlier; Fandol otherwise). You may override with `fontset=<name>`.

Latin

The template uses Times New Roman (serif), Arial (sans), and Courier New (mono). Windows/macOS include them by default; for Linux, install or copy the fonts.

7 Thesis structure

Undergraduate

Cover (Chinese, English, originality and authorization) → front matter (Acknowledgements, TOC, Chinese abstract, English abstract) → main matter (Chapters, References) → Appendix.

Graduate

Cover (Chinese, English, originality and authorization) → front matter (Chinese abstract, English abstract, TOC, lists of figures/tables/code, Notation) → main matter (Chapters, References) → Appendix → back matter (Acknowledgements, Publications).

Note The example `main.tex` follows the graduate order. *Undergraduates should adjust the order manually.* If `print` (default) is used, an "Originality Statement" page is inserted after the cover. With `pdf`, no statement page is included.

8 Title page fields

Declare fields before `\maketitle`. English fields use the `en` prefix.

Chinese	English	Meaning
`\title`	`\entitle`	Thesis title
`\author`	`\enauthor`	Author name
`\major`	`\enmajor`	Major/discipline
`\supervisor`	`\ensupervisor`	Supervisor
`\cosupervisor`	`\encosupervisor`	Co-supervisor
`\date`	`\endate`	Completion date (defaults to today)
`\secrettext`	`\ensecrettext`	Classification (default: not confidential)

9 Special environments

Available environments:

Environment	Purpose
`abstract`	Chinese abstract
`enabstract`	English abstract
`notation`	Symbols / Notation
`acknowledgements`	Acknowledgements
`publications`	Publications while enrolled

Keywords are specified using `\keywords` (Chinese) and `\enkeywords` (English) within the respective abstract environments.

10 TOC and lists

`\tableofcontents`, `\listoffigures`, `\listoftables`, and `\listofalgorithms` produce the Table of Contents and the lists. Figures/tables must use `\caption` inside floats to be numbered and listed. Use `\caption*` for unnumbered captions not included in lists. Use `\note{...}` to add a "Notes:" line inside figures/tables.

11 Math helpers

Upright symbols: `\eu` for e, `\iu` for i, `\diff` for d, and operators `\argmax`, `\argmin`. Theorem-like environments include: *theorem, assertion, axiom, corollary, lemma, proposition, definition, example, remark, proof*. The `proof` environment replaces the title and appends a QED symbol automatically. You can define new ones with `\newtheorem` or customize styles with `\newtheoremstyle` (`amsthm`).

12 References

Supported styles:

Bibliography list	Citation marker	Class option
Numeric (sorted)	Superscript numbers	`super`
Numeric (inline)	[1], [2], ...	`numbers`
Author–year	(Author, Year)	`authoryear`

For author–year, sort Chinese entries by pinyin or stroke order. Because BibTEX cannot infer pinyin from Chinese names, set the `key` field manually to the author's pinyin, e.g. `key = {ma3 ke4 si1 en1 ge2 si1}` for "Marx and Engels". In rare cases, set `language` (english/chinese/japanese/russian), `mark` (type), and `medium` (carrier) explicitly. Wrap proper nouns that must stay capitalized in braces inside the `title` field, e.g. `Lectures on {Riemann} surfaces`.

13 Quick start

A minimal skeleton:

```
\documentclass[master,english,authoryear]{oucthesis}
\title{An Example Thesis}
\author{Your Name}
\major{Computer Science}
\supervisor{Prof. Advisor}
\date{2025-10-14}
\begin{document}
\maketitle
\begin{abstract}
This is the Chinese abstract if needed.
\keywords{Thesis; Abstract; Keywords}
\end{abstract}
\begin{enabstract}
```

```
This is the English abstract.
\enkeywords{Thesis; Abstract; Keywords}
\end{enabstract}
\tableofcontents
\chapter{Introduction}
Your content.
\bibliographystyle{oucauthoryear}
\bibliography{bib/ouc}
\end{document}
```

14 Notes

- This English guide does not change the class behavior; it complements the original Chinese manual.
- Use XeLaTeX and UTF-8 for any Chinese content.