

Abstract

Your EUI ECO thesis must contain a abstract of about 300 words. You must also submit the abstract in a message or Word document and email it together with your single pdf thesis document. The abstract will go online with your thesis announcement. Also submit a picture of yourself; otherwise we will use the internet picture that we have for you.

Please read through this document. There are instructions about the EUI thesis procedure and also helpful LaTeX instructions that you may not know.

If you have suggestions that will improve this thesis template for your colleagues, please pass them along to me.

Acknowledgments

This EUI Economics thesis template was made from the Harvard Thesis Shell. Many thanks to the people who took the time to put together and who wrote most of the helpful instructions regarding LaTeX commands in this template. (If your acknowledgments are long and you prefer smaller margins, you can use the division "Unnumbered" here instead.)

This thesis format would not have been possible without the support of many people. Gunnar Bardsen and Mark Le Quement helped straighten out the numbering problems with the theorem-like environments in the former version of the EUI thesis template. Jerome Adda corrected the strange TOC problem in this version.

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Preface (or Introduction, etc.)

Contents of preface or introduction here. We have decided not to number the pages preceding the Preface and have suppressed the numbering in some places using Tex field, \thispagestyle{empty} because the small Roman numbers create a problem with printing and binding your EUI thesis. You must include the [reset page numbering] fragment at the beginning of this section so that the Arabic page numbering will start here and will start at page 1. If you use the division "unnumbered" here, page numbers will not be reset to Arabic, and will continue as small Roman numerals throughout the thesis; therefore we use the division "Preface" (but you can write the word Introduction if you like).

Section Heading in Preface

You can have sections in your preface but you must use the division "UnnumSection", as the preface does not have a chapter number, so sections should be unnumbered.

Subsection Heading

You may also have subsections, and should use the division "UnnumSubsection."

Subsubsection Heading

Use the regular subsubsection heading, since subsubsections are not numbered.

Always conclude a chapter with a new-page mark, so that running headers come out correctly. You may also want to insert a new-page mark at the beginning of a section which begins at the top of a page. (Otherwise, sometimes the wrong running head prints out on the previous page.)

Chapter 1 Name of First Thesis Chapter

This is where your first paper will go.

1.1 What determines an acceptable EUI Thesis

An acceptable Ph.D. thesis should contain a contribution to knowledge taking one of the following forms:

An extended paper providing the basis for a book or monograph of publishable standard on a topic in economics and/or econometrics; or

A series of papers of which at least two could provide the basis for papers that would justify publication in refereed economics and/or econometrics journals.

Joint research may form part of a Ph.D. thesis, provided that the thesis contains a clear statement of which parts are the result of joint research, and of the relative contributions of the co-authors.

The thesis must contain (and must also be accompanied by, in a separate document), an abstract of 300 words. This is strictly required for the defence and the abstract will be put online.

1.2 Examining procedure

Once the supervisor is satisfied that the thesis is close to completion and of the required standard, the supervisor will propose the membership of an Examining Committee for the approval of the Executive Committee. This Examining Committee (usually consisting of four members and including the supervisor (always a member), one other internal member of the Economics Department, and two external examiners whose specialist knowledge is relevant for the topic of the thesis) once appointed, will remain valid for six months. If the thesis has not been examined within six months of the appointment of the Examining Committee, it is necessary for the Economics Department to reconfirm the composition of the Examining Committee, or to propose a new membership to the Executive Committee.

Members of the Examining Committee will be sent a copy of the thesis, an examiner's report form and a copy of the thesis guidelines, and are expected to read and give comments in writing on the suitability of the thesis within 2 months of the thesis being posted to them (3 months if in the summer).

Members of the Examining Committee should complete the report form and send it, together with any further comments on the thesis (including changes they wish to see prior to defence), to the Chairman of the Exam Committee of the Economics Department, who will then communicate them to the supervisor and the candidate. If all examiners are in agreement, the Chairman of the Exam Committee will then initiate arrangements for the public defence of the thesis.

If one or more members of the Examining Committee require changes to be made to the thesis before a public defence then a new version will be prepared by the candidate, which in general will only be sent for approval to those members who required the changes. This version may be sent to all members for approval at the discretion of the Chairman of the Exam Committee taking into account the advice of the supervisor. (All members of

the jury will of course eventually receive the version that is to be examined at the public defence).

The Economics Department does not arrange for a public defence of a PhD thesis UNLESS all the examiners have indicated in writing that they expect the defence to be successful. However, under EUI rules, a candidate does have the right to call for a public defence regardless of the recommendation of the Examining Committee.

1.2.1 Examiners' recommendations

Following the public defence, the Examining Committee deliberates in camera, and on the basis of the thesis submitted to it and the way the candidate has defended it, takes one of the following decisions:

- immediate unconditional acceptance
- postponed conditional acceptance

1.3 Preparation of the thesis

You can use any word-processing programme to prepare your thesis, but it needs to be sent in as one pdf file. After the examination period, when a defence date has been set, the final step is to send the document to the Printshop to have it copied and bound. This is dealt with by your supervisor's assistant who also prepares the title and introductory pages (including the names of the examiners) on the standard EUI Economics Department template. There is therefore no need for you to do a formal cover page for this document. It is of the utmost

importance to have the correct title of your thesis on this document and your name as you would like it to appear on the final printed and bound thesis. Your thesis will be copied in black and white: no colour graphs should be used.

1.3.1 Publication of electronic theses

The EUI encourages researchers to publish their defended theses as an electronic thesis document. The PhD thesis is published electronically in full text as a protected pdf file and inserted in the EUI repository Cadmus and publications databases. This text cannot be downloaded, printed, or copied. If cited or quoted, reference should be made to the full name of the author, the title, the year and the publisher. The author will be given a form to fill in at the time of his/her defence. The author must inform the Economics Department of the EUI if the thesis is published elsewhere and also take responsibility for any consequential obligation(s).

1.4 The day of the defence

On the day of the defence the candidate is expected to make a presentation lasting approximately 20 to 30 minutes. The Examining Committee will then pose their questions (the supervisor will be the last one to ask his/her questions). A general debate can then follow. The supervisor can instead choose an interactive defence. At the end of the discussion the candidate and guests will be asked to leave the room for a few minutes while the jury deliberates in camera.

The candidate should indicate to the organizing secretary in which language(s) the diploma and the certificates should be issued. On the basis of this information the Academic Service will prepare the diploma and certificates. The Doctorate of the EUI is ungraded, and this fact will be clearly stated on the diploma issued to the doctor concerned.

1.A Appendix A: Tables

Table 1.1. Descriptive statistics

5	10	15	20	25	30
35	40	45	50	55	60

Note: If I double-click on the table, a dialogue box will appear.

Chapter 2 Name of Second Thesis Chapter

This is where your second paper will go.

2.1 What is this document?

This sample dissertation is meant to be an aid to students who are attempting to format their theses with Scientific Workplace or LageX, a sophisticated text formatter widely available at the European University Institute and other institutions of higher learning.

It describes the use of a specialized macro package developed specifically for thesis production. The macros customize LATEX for the correct thesis style, allowing the student to concentrate on the substance of his or her text.

It demonstrates the solutions to a variety of formatting challenges found in thesis production.

It serves as a template for a real dissertation.

2.1.1 Subsection Heading

Subsubsection Heading

2.2 Customizing Your Table of Contents

Because of a bug we have done the heading for the Table of Contents (or TOC) in the EUI template in straight Lage. Because of printing issues we have found that it is best if page number and hence inclusing the TOC starts at the Preface or Introduction which is an unnumbered chapter. The TOC (if you include one) will list all chapters, appendices, and unnumbered chapters, as well as all sections. In addition, any regular subsection is also listed. UnnumSubsection divisions (see Preface) and ApSubSection divisions (see below) are not listed in the TOC. Subsubsections are also not listed.

You may find that you want the regular subsections within a particular section to be left out of the TOC. (The TOC may be overly detailed if all subsections are included.) To leave subsections out of the TOC, use the division subsectionNoContents for all subsections within a section. (It's all or nothing.)

2.2.1 Name of Subsection which does not appear in the TOC

If you preview this document, you will find that this subsection is not in the TOC. This division type can be used in Appendix chapters as well. (Not appendices to a chapter. Subsections in these are always left out of the TOC.)

2.3 Customizing Running Heads and the Names of Divisions Printed in the Table of Contents

Sometimes, the name of a section is too long to print nicely as a running head or in the table of contents. If so, you can tell SWP to use another, abbreviated name for all of these headers, while still printing the long name in the text itself. I have done this for this section.

When you preview, you will notice that the running head for this section (at the top of the page near the page number) is different from the section name in the text, because an abbreviated name (Customizing Running Heads) has been created above. To do this, simply place the abbreviated name in brackets, with the long name *immediately* after the closed bracket. (No space in between!)

Here is another example in a subsection. The TOC includes "A short name for the TOC" while in the printed text, "A very...very..." appears as the subsection heading.

2.A Back-to-Back Printing of the Thesis

You may add an appendix to any numbered chapter, using the division "AppendixToAChapter." There is a special subsection division for such an appendix, called "ApSubSection." The regular subsection division will not produce the correct subsection labels in this sort of appendix. ApSubSection divisions are not listed in the TOC.

2.A.1 Name of Subsection in the Appendix to Chapter Two

Use the regular subsubsection division, since these are not numbered.

2.A.2 A Note on Back-to-Back Printing

The next chapter (or other major division) must begin on an odd page. To do this, you may need to add an additional page-break at the end of a chapter if it ends on an odd page. (The space between the two page-breaks is very important. Without the space, the second page-break will be ignored.) You can stop reading now but see the double page-break at the end.

blah blah blah The next chapter (or other major division) must begin on an odd page. To do this, you may need to add an additional page-break at the end of a chapter if it ends on an odd page. (The space between the two page-breaks is very important. Without the space, the second page-break will be ignored.) The next chapter (or other major division) must begin on an odd page. To do this, you may need to add an additional page-break at the end of a chapter if it ends on an odd page. (The space between the two page-breaks is very important. Without the space, the second page-break will be ignored.)

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of a chapter if it ends on an odd page. (The space between the two page-breaks is very important. Without the space, the second page-break will be ignored.)

The next chapter (or other major division) must begin on an odd page. To do this, you may need to add an additional page-break at the end of a chapter if it ends on an odd page. (The space between the two page-breaks is very important. Without the space, the second page-break will be ignored.) You want the next chapter (or other major division) to begin on an odd page (nice for double-sided printing when you use harv2.sty or harv3.sty). To do this, you may need to add an additional page-break at the end of this chapter, as follows. (The space between the two page-breaks is very important. Without the space, the second page-break will be ignored.

Chapter 3 How to Do Various Things

This is where your third paper will go.

3.1 How to Create Theorems in this Style

To create theorems in this style, you do not use the normal "theorems" to which you may be accustomed in latex. (It was difficult to make these come out double-spaced.) Instead, special divisions exist for theorems, propositions, assumptions, lemmas, suppositions, corollaries, and definitions. There is also a special division "TheoremIntro" for a theorem-like statement which you want unnumbered. A proof is introduced by a division "ProofIntro."

If you have already created theorems using the standard LaTeX theorem objects, you do not need to redo all your markers and cross-references. Just keep your markers and cross-references as they are, and transform all theorem objects into divisions. (Press F2 to turn the theorem back into a regular paragraph, and then add a header above the theorem statement using the appropriate division. Finally, change the type to emphasize or italics if desired.) Here are some examples:

Proposition 1 Contents of Proposition. You must use emphasized or italicized type, if you want the text italicized. This will not happen automatically as in regular theorem statements.

3.2 Tags 16

Text following the corollary. You may want to add vertical space after a theorem statement, or a proof, if it is followed by a regular paragraph. If so, place the vertical spacing on a separate line for best results. Using a separate line does not affect how much space is added when you compile and preview.

3.2 Tags

You can apply the logical markup tag *Emphasized*.

You can apply the visual markup tags **Bold**, *Italics*, Roman, Sans Serif, *Slanted*, SMALL CAPS, and Typewriter.

You can apply the special, mathematics only, tags BLACKBOARDBOLD, CALLIGRAPHIC, and fraftur. Note that blackboard bold and calligraphic are correct only when applied to uppercase letters A through Z.

You can apply the size tags tiny, scriptsize, footnotesize, small, normalsize, large, Large, LARGE, huge and Huge.

3.2 Tags 17

This is a Body Math paragraph. Each time you press the Enter key, Scientific Work-Place switches to mathematics mode. This is convenient for carrying out "scratchpad" computations. Following is a group of paragraphs marked as Body Quote. This environment is appropriate for a short quotation or a sequence of short quotations.

The buck stops here. Harry Truman

Ask not what your country can do for you; ask what you can do for your country. *John F Kennedy*

I am not a crook. Richard Nixon

I did not have sexual relations with that woman, Miss Lewinsky. Bill Clinton

The Quotation tag is used for quotations of more than one paragraph. Following is the beginning of *Alice's Adventures in Wonderland* by Lewis Carroll:

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, 'and what is the use of a book,' thought Alice 'without pictures or conversation?'

So she was considering in her own mind (as well as she could, for the hot day made her feel very sleepy and stupid), whether the pleasure of making a daisy-chain would be worth the trouble of getting up and picking the daisies, when suddenly a White Rabbit with pink eyes ran close by her.

There was nothing so very remarkable in that; nor did Alice think it so very much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually took a watch out of its waistcoat-pocket, and looked at it, and then hurried on, Alice started to her feet, for it □ashed across her mind that she had never before seen a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge.

In another moment down went Alice after it, never once considering how in the world she was to get out again.

Use the Verbatim tag when you want LaTeX to preserve spacing, perhaps when including a fragment from a program such as:

#include <iostream> // < > is used for standard libraries.

```
void main(void)  // "main" method always called first.
{
   shout << "Hello World."; // Send to output stream.
}</pre>
```

3.3 Mathematics and Text

Let H be a Hilbert space, C be a closed bounded convex subset of H, T a nonexpansive self map of C. Suppose that as $n \to \infty$, $a_{n,k} \to 0$ for each k, and $\gamma_n = \sum_{k=0}^{\infty} \left(a_{n,k+1} - a_{n,k}\right)^+ \to 0$. Then for each x in C, $A_n x = \sum_{k=0}^{\infty} a_{n,k} T^k x$ converges weakly to a fixed point of T.

The numbered equation

$$u_{tt} - \Delta u + u^5 + u |u|^{p-2} = 0 \text{ in } \mathbf{R}^3 \times [0, \infty[$$
 (3.1)

is automatically numbered as equation 3.1.

3.4 Lists Environments

You can create numbered, bulleted, and description lists using the Item Tag popup list on the Tag toolbar.

- 1. List item 1
- 2. List item 2
 - (a) A list item under a list item.

The typeset style for this level is different than the screen style. The screen shows a lower case alphabetic character followed by a period while the typeset style uses a lower case alphabetic character surrounded by parentheses.

- (b) Just another list item under a list item.
 - i. Third level list item under a list item.
 - (A) Fourth and final level of list items allowed.
- Bullet item 1
- Bullet item 2
 - Second level bullet item.
 - * Third level bullet item.
 - · Fourth (and final) level bullet item.

Description List Each description list item has a term followed by the description of that term. Double click the term box to enter the term, or to change it.

Bunyip Mythical beast of Australian Aboriginal legends.

References (or Bibliography)

- You can have references after each chapter (paper) if you like. I've added examples of bibitems after Chapter One.

- Xxxxxxx, X., xxx Xxxxxx, X. 8888. Xxx xxxxx xxxxxx xx xxxxxx-xxxxxxxx. *Xxxx Xxxxxxxx xx Xxxxxxxxx*. 88(8):888-88.

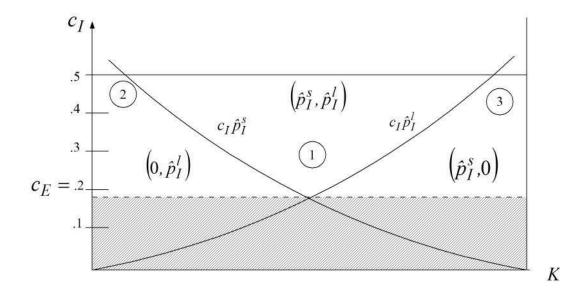
- Xxxxxxx, X., xxx Xxxxxx, X. 8888. Xxx xxxxx xxxxxx xx xxxxxx-xxxxxxxx. *Xxxx Xxxxxxxx xx Xxxxxxxxx*. 88(8):888-88.
- Xxxxxxx, X., xxx Xxxxxx, X. 8888. Xxx xxxxx xxxxxx xx xxxxxx-xxxxxxxx. *Xxxx Xxxxxxx xx Xxxxxxxxx*. 88(8):888-88.

- Xxxxxx Xxxxxx Xxxxxx 8888. Xxx xxxxxx/xxxxxx xxxxxx Xxxx 8-888-888.

Appendix A Name of First Appendix (such as: Figures)

Precede the first appendix with the indent latex fragment included here. Otherwise, there is a bug which keeps text from indenting properly.

Use regular sections and subsections (or subsectionNoContents) in appendices.



Coping pictures and graphics

This figure is an attached jpg file that I copied into SWP using the File →Import Picture menu. Remember however that when you are typesetting the document, SWP can not find the jpg figure file, you will get an error message.

Appendix B Name of Second Appendix (such as: Tables)

Table B.2. Descriptive statistics

5	10	15	20	25	30
35	40	45	50	55	60

Note: If I double-click on the table, a dialogue box will appear.