WRITING GUIDE

Theses and Dissertations

Pure, Applied,

and

Life Sciences



Institut national de la recherche scientifique

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1 INTRODUCTION

This document summarizes the main writing requirements for theses and dissertations submitted at the Institut national de la recherche scientifique (INRS). It points readers to writing aids and reviews the basic writing conventions for quantities, units, symbols, numbers, abbreviations, and so on.

Two <u>MS Word templates</u> are provided with this document, one for traditional theses and dissertations and the other for article-based ones. In the templates, the layout standards for margins, fonts, page numbers, table of contents, etc. are already set. You only need to add your personal information and your text. A bibliographic style named <u>INRS Sciences et technologies</u> is also available for users of the bibliographic management software <u>EndNote</u>.

2 CONFIDENTIALITY

Student work conducted at INRS is sometimes considered to be confidential. This depends on the type of project involved and is examined on a case-by-case basis. Most cases involve either a project that is part of a contract or that is considered to be strategic for the student research team.

In the case of a strategic project, the student supervisor may make confidentiality of the thesis or dissertation and future articles and conference papers a condition of participation in the project.

The confidentiality requirement can sometimes be lifted after a certain time at the request of one of the partners.

In both cases, the student must formally sign a confidentiality agreement. Since a shortage of publications can represent a major obstacle for Ph.D. graduates seeking an academic career, the student must ensure they fully understands the possible impacts on their career by discussing this subject with their supervisor and the contracting officer of their Centre.

In summary, a student whose research work is part of a contract is bound to confidentiality by the terms of the contract between the partner and INRS, which often prohibits publication of the thesis or dissertation and also implies major constraints on the publication of articles or conference papers. Such publications must be authorized beforehand by the partner (company, governmental department or agency).

3 EMBARGO

The student, in collaboration with their supervisor, may ask for a delay before the thesis or dissertation is made available online in cases where a suitable justification exists. To request such a delay, fill out the form on \underline{IDE} . The main reason for requesting an embargo is that it is required by an editor in relation to the publication of articles or a book chapter contained in the thesis or dissertation.

Documents under an embargo will not be published before the authorized release date, but as opposed to a confidentiality agreement, their description (author, title, summary, etc.) will appear in the INRS institutional repository, <u>EspaceINRS</u>.

The delay before publication can be 6 months, 1 year, or 2 years. After this period, the document is automatically made available online in the institutional repository. To obtain an additional delay, the student must contact the <u>Service des études et de la vie étudiante</u> and justify his request.

4 PERSONAL DATA

Theses and dissertations are normally widely distributed and must therefore exclude any personal information about individuals.

4.1 What is personal information?

Information such as an email address, a phone number, a postal address, a signature, a student permanent code, etc. is considered personal information. You also must take care that no person can be identified in a photograph unless you have the written permission of that person. One option for preventing such identification is to modify the photo such that no one can be identified (by adding blur, for example).

4.2 Personal information also includes your own!

Students are usually vigilant about protecting the personal information of the individuals who took part in their study as this is a requirement for ethics certifications. However, vigilance about the student's own personal data often is not as good and bits of personal data can be found throughout the thesis or dissertation. This information is often included without much thinking about protecting oneself.

Be particularly vigilant about:

- Including as an appendix or elsewhere forms that you completed for your research (ethics certifications or other requests) that may contain personal data such as your student permanent code, address, etc.;
- Including as an appendix or elsewhere invitation letters to take part in your study in which you have included your contact information;
- Including in your acknowledgments personal information about yourself or your family.

When you are ready for submission (initial and final), you can use the following check list to ensure that all essential elements are there. The section "Checking rights and confidentiality" will help you meet the confidentiality requirements: <u>Check List (French only)</u>.

5 RESEARCH DATA

Research data include observations about the world that are used as primary sources of data for scientific, technical, and creative research and as evidence in the research process.

5.1 Data deposit for a thesis or dissertation

Data collected during your research project have great value, both to enable other researchers to validate parts of your publications (reproducibility) and to facilitate continuity in the research for subsequent projects. It is therefore very important to take care of your research data to ensure their long-term preservation and accessibility.

Note: The <u>Research Data Management Policy</u> of the federal granting agencies will require data deposit within the next few years. Data deposit may already be required by a funding program in Canada, by agencies outside Canada, or by scientific publishers for an article to be published.

For your thesis or dissertation datasets, it is strongly advised that you deposit them in the institutional data repository <u>Dataverse</u>, which is similar to EspaceINRS for publications. The two components of your research work will be linked, enabling navigation from the text of the thesis or dissertation to the data and vice versa.

Note: There are also thematic data repositories (e.g., Federated Research Data Repository, Pangea, Open Science Framework (OSF), ClinicalTrials.gov, Github, etc.). Dataverse, which is the solution offered by INRS (and all other Quebec universities), has the advantage of offering individualized support. We can recommend other repositories depending on the characteristics of your research.

In order for your data to be easily understood and reused, you will have to do the following before the deposit:

- Describe each variable in a "Read Me" text file
- Explain decisions about file titles, version control, methodology used, etc.
- Clean up the dataset to be deposited
- Select a licence to use that is appropriate for your data
- Anonymize data where appropriate, including removing personally identifying or confidential information and using less precise geospatial coordinates to protect endangered species or places.

For more information, see the Guide to Research Data Management.

5.2 Data deposit for an article

If you are submitting an article as part of your thesis or dissertation and you want or need to provide data with your text, it is possible to deposit the data in Dataverse before publication. You will need to create an account and contact us to request access to your personal Dataverse space. We may recommend other repositories depending on the characteristics of your research.

Once your data has been deposited, you can give the unique digital object identifier (DOI) of the dataset to the journal publisher to add to your article upon publication. Once the article is published, you can add the article bibliographic reference and DOI in Dataverse. Finally, you can request the deposit of your article in EspaceINRS with the DOI pointing to the data.

Note: When writing your article, you can request the dataset DOI to cite it directly in the methodology section. You do not have to wait until the end of the process.

For more information, see the Guide to Research Data Management.

6 GENDER-NEUTRAL WRITING

INRS is committed to promoting equity, diversity, and inclusivity and to enhancing a collective sense of community. Among other things, the Institute is committed to maintaining fair representation of each person in all its communications.

Thus, whenever possible, gender-neutral writing is suggested for your thesis or dissertation.

INRS has produced a guide for gender-neutral writing in French based on the recommendations of the Office québécois de la langue française (OQLF):

Inclusivement vôtres! Guide de rédaction inclusive

7 FORMAT

This chapter contains all the necessary information to format your document. The main objective is to help you make choices conform to good practices. It is better to read it and use it from the start in order to avoid wasting time and being less efficient near the end of the process.

7.1 General page layout guidelines

For the entire document, including preliminary pages				
Margins	Uniform and 25 mm for odd and even pages, including pages with tables or figures			
	Must always begin on the first line of a page and should not end on the first line of a page			
Paragraphs	Justified margins			
	Line spacing: 1.5			
	Spacing before and after: 6 point			
Font	Must be clear and legible (e.g., Arial, Calibri, Tahoma, or Verdana). The Word template uses Arial. The font selected at the beginning must be used throughout the document			
Size	11 point for normal text			

7.2 Page numbers

Page numbering is as follows				
Position of page numbers	Centred at the bottom of the page in 10-point font. Roman or Arabic numerals without any ornamentation. Use same font as text			
Preliminary pages	In lowercase Roman numerals, starting from the title page			
Introduction and subsequent pages	In Arabic numerals, starting with 1 up to the end of the document, including the appendix pages, which continue consecutively from the body pages			

7.3 Pages without numbers

All pages of a document (even blank ones) must be counted for page numbering. However, the number is omitted for some pages.

Omit the number for title, epigraph, and dedication pages, and for all pages starting with a main title (e.g., Introduction, First Chapter, Chapter II, Conclusion, Index, Bibliography, Appendix). Note that pages with main titles should if possible be odd pages (i.e., located to the right), even if it implies to precede them by a blank page in a doubled-sided printed document.

7.4 Blank pages for impression

To produce a high quality printable version, it is necessary to insert blank pages in order that all chapters start on odd pages. Without these insertions, the page layout of the double-sided printed version will not be conformed to usual standards for printed documents, although the online version will not be affected.

7.5 Heading and paragraph hierarchy

Headings and **subheadings** are organized into a hierarchy using font sizes and styles of MS Word template. Numbering should not exceed three numerical levels. Level 1 headings are left-aligned, except on preliminary pages, where they are centred. All headings and subheadings are single-spaced without a period at the end. The same rules apply in appendices.

Text: 14 point - bold ALL IN UPPERCASE	Centred, single spacing Line break: Shift + Enter Spacing before: 0 point and after: 18 point				
Style name in the MS Word template: <i>Titre liminaire</i> Corresponds to the first level in the table of contents					
ACKNOWLEDGMENTS					

Example of title for preliminary pages

Example of title for numbered chapters and headings

Text: 14 point - bold ALL IN UPPERCASE Horizontal line underneath Left-aligned, single spacing Line break: Shift + Enter Spacing before: 0 point and after: 24 point

Style name in the MS Word template: *Titre 1*

Corresponds to the first level in the table of contents

1 SOLUTION FOR MATERIAL TRANSFER

Example of title for subheadings

Text: 12 point - bold Only 1 st letter in uppercase	Single spacing Spacing before: 18 point and after: 12 point					
Style name in the MS Word template: <i>Titre 2</i> Corresponds to the second level in the table of contents						
1.1 Numbering of objects used						

Example of title for sub-subheadings

Text: 11 point - bold Only 1 st letter in uppercase Indented 1.25 cm	Single spacing Spacing before: 18 point and after: 12 point
Style name in the MS Word template: <i>Titre 3</i> Corresponds to the third level in the table of contents	5
1.1.1 Undesirable preconceived ideas	

Avoid placing a level 2 or 3 subheading immediately under a level 1 or 2 heading. If it cannot be avoided, insert an empty line (text level).

The initial font selected must be consistent in headings and footnotes. The MS Word template uses Arial and styles used can be viewed in the generated table of contents.

	Doc	ument1 - Mi	crosoft Word							
ur	Antidote	Acrobat								
¶	AaBbCcDd	AaBbCc[AaBbCcDd	1. AAE	1.1 AaE	1.1.1 Aal	1.1.1.1 A	AABB(AaBbCcDd	A
] *	¶ Légende	¶ Normal	¶ Note ba	Titre 1	Titre 2	Titre 3	Titre 4	Titre limin	Titre tab	Modifier les styles ▼
Fa.					Style	e			·	Es.

7.6 Note and quotation format

A footnote is used to indicate the source of a quotation or other information, to give additional explanations that would make the text too long, to refer the reader to another part of the text, etc.

Here is the recommended layout:

Footnotes	Justified margins Single spacing First line indented by -0.5 cm, with tab at 0.5 cm Spacing after: 6 point Text: 9 point, normal		
Long quotations of more than three lines	Justified margins		
are set off as separate paragraphs.	Single spacing		
*Short quotations are inserted in regular	Indented 1 cm from the left and right margins		
paragraphs between quotation marks	Spacing before and after: 6 point		
("[]").	Text: 11 point, normal		

7.7 Tables and figures

The **main title** of the figure or table is preceded by a unique number in Arabic numerals composed of two numbers: the first number corresponds to the chapter in which it is found and the second is the order of that figure or table in the chapter (e.g., the figures in Chapter 2 are numbered 2.1, 2.2, etc.).

This title will be displayed in the list of tables/figures generated with MS Word and should not exceed 60 characters. The recommended format of titles is:

- Centred and placed below a figure and above a table
- Bold, 9-point font
- Left-aligned, justified margins, single-spaced
- 12-point spacing before and 6 point after
- Maximum length of 60 characters

The **caption** provides an additional explanation and must be placed underneath the table or figure. Anything that is not part of the title (e.g., attribution) must be inserted in a note below the table. Descriptions, explanations, and referrals to works cited can be included in the caption but never in the title.

- Bold, 9-point font
- Left-aligned, justified, single-spaced
- 6-point spacing before and 12 point after
- No character maximum

An example of figure:



Figure 7.1: Figure title, placed below (max of 60 char.)

A caption may follow the figure so that readers can understand the content without having to consult the text.

An example of table:

Category heading	Column 1 heading	Column 2 heading	Column 3 heading			
Heading line 1						
Subheading line 1	12	12	12			
Subheading line 2	12	12	12			
Heading line 2						
Subheading line 1	12	12	12			
Subheading line 2	12	12	12			
Heading line 3						
Subheading line 1	12	12	12			
Subheading line 2	12	12	12			

Table 7.1: Table title, placed above (max of 60 char.)

A caption may follow the table so that readers can understand the content of the table without having to consult the text.

The **orientation** of the table/figure must follow that of the text. It must be centred in the page.

For large tables/figures:

- They may be displayed in landscape orientation with a 90° counterclockwise (not clockwise) rotation
- They may be shown on an odd-numbered page on a 11x17" sheet
- Oversized tables are displayed in an appendix

A figure (e.g., diagram, sketch, map, or photograph) appears after the first mention and is located in the first place where it can be completely inserted, between two paragraphs.

It is essential that the format of all tables/figures inserted in the document be consistent with regard to boxes, grids, symbols, lines, headings, and so on.

When content is not completely new, it is advisable to refer to the original source (e.g., reproduction authorized by..., Adapted from...).

Note: Since your thesis or dissertation will be distributed online on EspaceINRS, complete or substantial reproduction of a table/figure requires written permission from the copyright holder which you must keep a copy in your files.

7.7.1 Guidelines specific to tables

Whole **numbers** are centred in columns; others are aligned on the decimal point using a decimal tab.

Line and column headings (and potentially subheadings as well) are left-aligned for line headings and centred for column headings.

For very large tables:

- The size of the characters and numerals may be reduced from one to three points
- The table may be split into sections over a number of pages

Annotations appear underneath the table:

- Note indicators: lowercase superscript letters, in alphabetical order from top to bottom and left to right
- Format: same size font as in the table, single-spaced and run the entire width of the table

7.8 Equations

All equations must be numbered sequentially in Arabic numerals. These numbers must appear along the document's right margin in parentheses. Mathematical and chemical equations follow the same numbering.

Equation terms and symbols, if they are not explained in the text, must be given in a caption under the equation. For example:

Equation 7.1 – Schrödinger equation

$$(-b \pm \sqrt{(b^2 - 4ac)})/2a$$

From where

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Where A is the activity of the radioactive isotope at depth (z = x cm) in sediment A₀ is the activity of the radioactive isotope on the surface (z = 0) λ is the radioactive decay constant for the isotope t is the age (year) of the sediment at depth (z = x cm)

8 TRADITIONAL STURCTURE

Theses and dissertations written for INRS must include the following components:

SECTIONS	NOTES
Preliminary pages	See details below
Introduction	
Body text	As chapters
Conclusion	
Bibliography	
Appendix pages	Including reference and appendix sections

The order of the sections must be respected.

Note: Article-based theses and dissertations have a different structure (see section 9).

8.1 **Preliminary pages**

They comprise all the information needed to succinctly describe the contents of a work:

ORDER OF PRELIMINARY PAGES			
MANDATORY	Optional		
Title page			
	Dedication		
	Acknowledgments		
	Foreword		
Abstract and keywords			
Résumé and mots-clés (French abstract and keywords)			
Synopsis in French			
Table of contents			
List of figures			
List of tables			
	List of acronyms and abbreviations		

8.1.1 Title page

The title page includes the usual basic information (see below). Once completed, distribute the components over the entire page.

COMPONENTS	NOTES
Logo of the Université du Québec	Top left
Logo of INRS	Top right
Logo of the other institution (dual degree programs only)	Top right with INRS logo at the centre of the page
Name of the research centre	Centre Eau Terre Environnement Centre Énergie Matériaux Télécommunications Centre Armand-Frappier Santé Biotechnologie
Title	Uppercase, 14-point font, max of 175 characters including spaces and punctuation Bold, centred and single-spaced
Student name	Lowercase except first letters
Program	See table below
Evaluation committee members	Listed in a table
Copyright	© All rights reserved to "student name", month year

The programs and degrees that INRS offers at the Eau Terre Environnement, Énergie Matériaux Télécommunications, and Armand-Frappier Santé Biotechnologie centres are listed below and must appear in the following forms on the title page:

Master of Science, M.Sc.	Doctor of Philosophy, Ph.D.
Program	Program
Master's in Water Sciences	Doctorate in Water Sciences
Master's in Earth Sciences Jointly offered by INRS and Université Laval	Doctorate in Earth Sciences Jointly offered by INRS and Université Laval
Master's in Energy and Material Sciences	Doctorate in Energy and Material Sciences
Master's in Telecommunications	Doctorate in Telecommunications
Master's in Experimental Health Sciences	
Master's in Applied Microbiology	Doctorate in Biology
Master's in Virology and Immunology	Doctorate in Virology and Immunology
Example of dual degree: Master's in Earth Sciences at INRS Master's in Earth Sciences at "institution name"	Example of dual degree: Doctorate in Earth Sciences at INRS Doctorate in Earth Sciences at "institution name"

8.1.2 Abstracts

An abstract, or summary, must be included in French and English, regardless of the language in which the document is written.

The abstract should **never** include references, chemical equations, or complex mathematical formulas.

The abstract is single-spaced and should not exceed 150 to 200 words for a master's thesis, or 350 to 400 words for a doctoral dissertation. It should be followed by a series of keywords (maximum 10).

The French abstract is a translation of the English abstract and is subject to the same conditions (e.g., length, keywords).

8.1.3 Synopsis (if required)

A *synopsis* **is required** when a thesis or dissertation is written in English. It should be about twenty (20) pages in length and is in no way a replacement for the French abstract. This section includes the main points discussed in the document and explains the working hypotheses, research objectives, methodology, and results (i.e., the normal parts of a thesis) **in much more detail than the abstract does.** Unlike the abstract, the synopsis can **refer to tables and figures** in the main text.

8.1.4 Table of contents

A maximum of three heading levels are permitted. The MS Word template can be used to generate a table of contents automatically.

8.1.5 Lists of figures and tables

Each list is separate and independent. The MS Word template can be used to generate the lists automatically. Avoid multi-line titles.

8.2 Introduction, development and conclusion

The introduction represents about 10% of the overall length of the thesis or dissertation. The chapters constitute most of the body text. Page layout should be as described in section 7.1.

8.3 Bibliography

Entries must be complete, consistent, and clear. See section 10 for all details.

8.4 Appendix pages

See section 11 for all details.

9 ARTICLE-BASED

An article-based thesis or dissertation submitted to INRS must meet the criteria listed in this document; otherwise, a traditional thesis or dissertation must be submitted. It is the student's responsibility to ensure that the submitted document meets the requirements. The student's supervisor must also verify that the document to be submitted follows the policies laid out in this guide before allowing its initial submission.

Article-based theses and dissertations at INRS may have two different structures. Centre Eau Terre Environnement strongly recommends option B. The order of sections presented below must be followed.

Ontion A

SECTIONS	NOTES
Preliminary pages	
General introduction	
Bibliography	
Articles	As a chapter
Bibliography	Repeat for each article
General discussion and conclusion	
Bibliography	
Appendix pages	

Appendix pages For further explanations and more details on how to organize the bibliographies for option A, see

APPENDIX VI OPTION A.

SECTIONS	NOTES
Preliminary pages	
General introduction	
Articles	Without bibliography
General discussion and conclusion	
Bibliography	Includes references for all articles
Appendix pages	

For further explanations and more details on how to organize the bibliographies for option B, see APPENDIX VI OPTION A.

9.1 Preliminary pages

For more information on the preliminary pages, see section 8.1. They are subject to the same guidelines as those for traditional theses and dissertations.

9.2 General Introduction

This chapter should have 10–25 pages for a Master's thesis and 25–50 pages for a PhD dissertation. This first part should contain:

- A background
- A review of the general literature

• A presentation of the structure of the work in which the relation of each article to the thesis or dissertation objectives is explained. For each article, you should provide the title, objectives, hypotheses to be tested (if applicable), and a summary of its methodological approach. In the case of a thesis or dissertation containing more than one article, it is necessary to explain how each article is related to the others and how they together form a coherent whole to meet the thesis's general objectives.

The bibliography will be inserted at the end of the introduction or at the end of the document depending on the option chosen. For more information on the bibliography, see section 9.

9.3 Articles

Evaluating student research remains an exclusive competence of INRS. Articles written for publication have to go through the regular evaluation process by the student committee. Acceptance of one or more articles for publication does not constitute a condition for obtaining the degree, nor does it influence the evaluation of the thesis by the committee or exempt the student from making the corrections requested.

Each article constitutes a chapter.

What is an article?

- An "article" is a scientific paper intended for publication in a refereed journal
- The student must be the first author of each article and must have played a major, essential, and determining role in its preparation

- Articles may be published, accepted, submitted, or almost ready for submission. A nearsubmission-ready article is in the same state of completion as a submitted article, both in content (data acquisition, analysis, and interpretation must be completed) and in form (it must be written according to the current presentation standards of the field). Unlike published, accepted, or submitted articles, a ready-to-submit article does not have to have been previously reviewed by the co-authors
- Papers must have been written after the student has been admitted to their program, including the Master's degree for candidates who have fast-tracked from Master's to a PhD

Note: Each program has its own requirements. Make sure you know them well from the start.

9.3.1 Recommended number of articles

Standards and principles guiding the minimum number of articles that should be included in the thesis vary between programs according to the specific context of the study field. Make sure you have discussed the subject in detail with your supervisor and the program director.

Traditional chapters may be added to the article section of the thesis or dissertation. The structure and content of these chapters are open. They may include preliminary tests or data not intended to be published as a scientific article.

APPENDIX II provides general information only and specifics may have evolved over time.

9.3.2 Article introductory page

Articles are introduced by a page giving the following information:

SECTIONS	NOTES
Article's title	The French translation is added when the the the the the thesis or dissertation is written in English
Names of the authors and their professional affiliations	Full first names and initials
Title of the journal or work to which the article has been submitted or in which it has been accepted or published	
Date of submission, acceptance, or publication	With volume number and pages
DOI, if available	
A few paragraphs explaining the nature of the student and each co-author contributions to the article	For each article

SECTIONS	NOTES
For the second article and all of those that follow	A paragraph explaining the link between the preceding article(s) and the article that follows

9.3.3 Article format

Each article must appear in manuscript form, with the **exact same text as the one submitted or pending submission for publication**, but in the format of the thesis or dissertation:

- Page numbers follow that of the entire thesis or dissertation
- The article's title can be the chapter's title or if too long, use a shortened version for the chapter's title, and indicate the complete title of the article in the first paragraph of the chapter. We recommend that the chapters' title does not exceed 75 characters (spaces included). A period is not used at the end of headings and subheadings
- Tables and figures are inserted in the position they would occupy in a traditional version rather than at the end, so that reading is more fluid
- Headings, subheadings and sub-subheadings must be numbered following the preceding section
- For the second article and all those that follow, add a paragraph explaining the links between the preceding article(s) and the article that follow stating the main conclusions reached and the questions remaining that are covered in the next article on an additional page placed between the two articles

For in-text citations (author-date vs numeric), a possible exception from this guide is presented in APPENDIX VII

9.3.4 Author rights

For legal reasons, the publisher's definitive PDF version (reprint) of a published article cannot in general be inserted in the thesis or dissertation. In the event that INRS is not allowed to distribute the reprint, it will be removed before the thesis or dissertation is deposited in the institutional repository (EspaceINRS). The reprint will be replaced by a bibliographic reference including the DOI link to the article on the publisher's website.

Note: Articles that have been accepted or published by publishers that do not authorize their distribution online will be removed when the thesis is entered in the institutional repository (Espace INRS) and replaced by a simple bibliographic reference, including a DOI link to the article on the publisher's website.

A guide for professors and researchers in the academic sector that defines author rights in Canada and summarizes the principles that govern their application is available. It gives authors specific information on the use of copyright-protected works as part of their academic activities.

Author rights guide (French only)

9.3.5 Embargo on publication

Since the thesis or dissertation will be distributed online on Espace INRS, it is strongly suggested to ask for an embargo period in IDÉ before the final submission if a chapter/article has not yet been submitted or has just been submitted. This precaution is to prevent the rejection of the article by the editor due to a publication already available online which can be considered as plagiarism.

9.4 General discussion and conclusion

This final chapter contains a general discussion and a conclusion. The discussion synthesizes the main elements of the articles and relates them while avoiding redundancy. This discussion also emphasizes the original and innovative aspects of the research, identifies possible limits to the work, and presents future research avenues.

This final section should have 3-10 pages for a Master's thesis and 5-20 pages for a PhD dissertation.

9.5 Bibliography

References can be inserted in the document in two ways: You will find several format examples in chapter 10.

9.5.1 Bibliography for each article/chapter (option A)

References are inserted at the end of each article. Formatting for each chapter conforms to the journal requirements¹. Inserting or not an integral bibliography at the end of the document is left to the choice of the student and his supervisor. The format should then follow that presented in

¹ This is the case for articles whose references are in numerical format instead of author-date.

section 10 and the articles must be written accordingly as explained in APPENDIX VI OPTION A.

9.5.2 Unified bibliography (option B)

All references, including those in the articles, appear only at the end of the document in a unified bibliography. The format should then follow that presented in section 10 and the articles must be written accordingly as explained in APPENDIX VI OPTION A.

9.6 Appendix pages

See section 11 for all details.

10 CITATIONS, REFERENCES, AND BIBLIOGRAPHIC STYLE

INRS has a specific bibliographic format for the pure and applied sciences as well as a template for Endnote. While this format is not mandatory, consistency must be maintained from the beginning to the end.

With the exception of article-based theses under certain conditions described earlier, only authordate citations are acceptable in a thesis or dissertation.

10.1 In-text citations

In-text citations include the **last name of the first author** and the **year of publication**. Here are a few examples:

10.1.1 Citation of documents by a single author

Examples:

Adam Smith's mechanistic model is not exempt from criticism, particularly in relation to the role of interest (Godbout, 2007).

After presenting Adam Smith's mechanistic model and its contributions and deficiencies, Godbout (2007) provides an in-depth critical analysis of all interest-based models.

Adam Smith's mechanistic model is not exempt from criticism, particularly in relation to the role of interest (Godbout, 2007, cited in Jones, 2010).

10.1.2 Citation of documents written by two or more authors

Only the first author is named followed by et al.

(Ouarda et al., 2008)

10.1.3 Citation of multiple documents published by the same author(s) in the same year

Each title is differentiated by a lowercase letter, in alphabetical order. The abridged references take the following form:

(Corriveau, 2007a; Corriveau, 2007b)

(Corriveau et al., 2007c)

10.1.4 Several citations at the same place in the text

(Apparicio, 2006; Tétreault, 2010)

10.1.5 Citation of documents with no publication date

The date is replaced with "n.d." (no date):

(Lévesque, n.d.)

If the date can be deduced, it is given between brackets:

(Helly, [2006])

10.1.6 Citation of reproduced figures and diagrams

If you are the creator:

Figure 1. Radioactive chain of uranium 238 disintegration

In the case of a figure taken from an article or a book, you must ensure that you have the right/ permission to use the figure. In general, commercial editors allow the use of figures in theses and dissertations:

Figure 2. Schematic diagram of a morbillivirus (from Rouxel, 2012)

Most editors do not consider that a French translation is a modification to a figure. But you still need to make sure it is authorized:

Figure 3: Phylogenic tree of morbillivirus (modified/adapted from Barrett, 1999)

10.1.7 Two-level citations: X citing Y

This is important if the origin of the cited concept can clearly be attributed to an older reference which has not been consulted directly. Whether or not you have consulted the older reference, the references of the two cited authors must both appear in the bibliography:

(Godbout, 2010, cited in Jones, 2013)

Note: To be used with caution because you then judge the older author based on the interpretation of the first-level author.

Listing personal communication (e.g., letters, emails) in a bibliography is not recommended because these documents cannot be consulted by readers.

10.2 References and the bibliography

References must appear in the following order:

- Alphabetical order by the first author's last name
- Publication date, in decreasing order
- Alphabetical order by title (ignoring the initial article)

If the list contains more than one work by the same author, use the same form of the name, preferably the most complete, if its appearance varies from one document to another.

A comma separates the names of the first and second authors. An ampersand "&" separates the names of the last two authors:

Ayotte C (2006) Significance of 19-norandrosterone in athletes' urine samples. British Journal of Sports Medicine 40 Suppl 1:i25-29.

Cojocaru CV, Harnagea C, Pignolet A, Rosei F (2006) Nanostenciling of functional materials by room temperature pulsed laser deposition. IEEE Transactions on Nanotechnology 5(5):470-477.

Franco A, Costoya MA & Roca E (2007) Estimating risk during showering exposure to VOCs of workers in a metal-degreasing facility. J Toxicol Environ Health A 70(7): 627-637.

Institut national de la recherche scientifique (2005). Colloque international jeunes et dynamiques territoriales. INRS Observatoire Jeunes et société, Quebec City. DVD, 11 h 30 min.

Todaro JL (2008) The truth is out there: Is that my garbage can? Lib. Admin. Manage. 22(1): 47-48

US EPA (2013) Projected Emission Reductions Overstated and Buy American Requirements Not Met Under EPA Award to the Tennessee Department of Transportation, Report No. 13-R-0321. US Environmental Protection Agency, Washington, DC. 82 p.

Use "Anonymous" when the author is unknown.

Anonymous (2009) California Water War. The Economist 393(8652):34-36.

Since there is not one specific author of a collective work, the editor is named, followed by "Ed." (or "Eds." if there are more than one).

Soutter M, Mermoud A & Musy A (Eds.) (2007) Ingénierie des eaux et du sol: Processus et aménagements. Presses polytechniques et universitaires romandes, Lausanne, 294 p. In the case of chapters with one or more authors, the names of the book editors, followed by "Eds.," are given after the title of the book.

Bertrand-Krajewski JL, Fletcher TD & Mitchell VG (2007) Spatial and temporal scale considerations. Fletcher TD & Deletic A (Eds.) Data requirements for integrated urban water management, (Urban Water Series - UNESCO-IHP: 1), CRC Press, Boca Raton, pp 45-64.

Only the first word of the title of an article or a book chapter takes an initial uppercase letter. However, for titles in English, all "major" words (e.g., nouns, adjectives, verbs) in the name of a journal or the title of a book are written with an uppercase letter.

Chiu WA, Caldwell JC, Keshava N & Scott CS (2006) Key scientific issues in the health risk assessment of trichloroethylene. *Environmental Health Perspectives* 114(9):1445-1449.

Cloutier M, Mantovani D, Rosei F (2015) Antibacterial coatings: Challenges, perspectives, and opportunities. *Trends in Biotechnology* 33(11):637-652.

Payment P, Trudel M, Pavilanis V (1978) Evaluation de l'efficacité de la technique d'adsorption-élution du poliovirus 1 sur filtres en fibres de verre: application à l'analyse virologique de 100 ml à 1000 l d'eau. *Revue canadienne de microbiologie* 24(11):1413-1416.

The issue number or description are abridged in the language of the document (e.g., 2nd ed.) and placed after the title.

American Psychological Association (2010) Publication Manual of the American Psychological Association..6th ed. American Psychological Association, Washington, DC, 500 p.

Esping-Andersen G (2007) Les trois mondes de l'État-providence: essai sur le capitalisme moderne. 2^e éd. Presses universitaires de France, Paris, 310 p.

The place of publication is the location of the publisher's main offices.

Ouellette FR, Joyal R & Hurtubise R (Eds.) (2005) Familles en mouvance: Quels enjeux éthiques? Presses de l'Université Laval, Québec, 399 p.

Website URLs can quickly become invalid. As a result, it is essential that URLs be followed by the site access date.

Université Laval (2013) Vers un campus carboneutre. Université Laval, Québec http://www2.ulaval.ca/developpement-durable/vers-un-campus-carboneutre.html (Accessed March 26, 2014).

Lengthy URLs can be replaced by addresses simplified using online shortening tools (e.g., tinyurl.com, bit.ly, goo.gl):

Université Laval (2013) Vers un campus carboneutre. Université Laval, Quebec. http://goo.gl/FuFQJj (Accessed March 26, 2014)

It is necessary to distinguish patents which have an issue date (zone 45 in the original document), from patent applications which do not have this zone. The country in which the patent has been granted must also be indicated:

Cisneros I (2009) Method for extracting oil from plant material. US Patent 7,507,869 (United States) 24 March 2009.

Articles still in the process of formal publication, but already available online must be cited with the mention *in press* instead of the year:

Ayotte Y, Bilodeau F, Descoteaux A, Laplante SR (in press) Fragment-based phenotypic lead discovery: Cell-based assay to target Leishmaniasis. ChemMedChem 10.1002/cmdc.201800161

Standards have a version number:

ASTM International. (2012). Standard Practice for Sampling and Procurement Testing of Magnetic Materials. ASTM A34/A34M - 06(2012) Standard. http://www.astm.org/cgibin/resolver.cgi?A34A34M-06(2012)

For more examples, see APPENDIX V.

11 APPENDICES AND OTHER LISTS

Appendices are used to provide information that supplements that in the main text. They must only include elements that are essential to understanding the thesis or dissertation or to supporting its argumentation.

The appendices are placed after the bibliography. If there are more than one, they appear in the order in which they are mentioned in the text, numbered as Appendix I, Appendix II, Appendix III, and so on, in uppercase Roman numerals.

It is important to consider carefully whether an item should be included in an appendix since the appendices will be available online.

For example, if you wish to publish online the abstract of a conference presentation/poster of which you are one of the authors, you can deposit this document in the INRS institutional repository, <u>EspaceINRS</u>, which is available to the general public, instead of including it in the thesis.

Appendices should not include publications of which you are not one of the authors.

11.1 Other lists

Other lists may be added as needed (e.g., list of publications or documents included in the text or outside the text, abbreviations, acronyms, symbols, appendices).

12 IF YOU NEED ASSISTANCE

If you need additional information or assistance, you can contact us by email at the following address: sdis@inrs.ca

12.1 Workshops

Workshops on the submission process, the use of bibliographical software, and the thesis writing guide are offered at different times and locations. A schedule of the group training sessions is available on the SDIS website: <u>Workshops schedule</u>. Some training sessions are offered in English.

12.2 Transformation to PDF/A

For better long-term preservation, it is recommended that you provide your thesis in PDF/A format, but this is not a requirement. Ensure that all figures and tables are clearly readable after transformation.

Some text software (e.g., LaTex) may interfere with the PDF/A format. Keep in mind that the most important issue is the legibility of the final document.

More information on PDF/A (French only)

12.3 Research integrity

The INRS Graduate and Postdoctoral Studies Department offers this guide to assist you with your academic career. The guide explains what are intellectual integrity, research integrity, copyright, and intellectual property. It invites you to think about the consequences of fraud, plagiarism, and cheating for you and others. INRS wishes to promote an environment free of such undesirable behaviour, which undermines honest acquisition of knowledge and damages the institution's reputation. A university is a world where everyone should be allowed to develop freely in an environment of integrity and intellectual honesty. Intellectual integrity means, among other things, respecting others and their ideas without altering the content of such ideas and, most importantly, acknowledging their contributions, whether such individuals are authors, professors, or fellow students.

Student guide (English version)

12.4 Graduate studies guide

During your graduate studies, you will be challenged, you will advance knowledge in your field, and you will pave the way for your professional career. In order to give you a good start, teach you the basics of university research, and help you develop successful methods, INRS has produced a guide to answer your questions and accompany you throughout your stay at the Institute.

Graduate studies guide (French only).

APPENDIX I USEFUL DOCUMENTS, FORMS (FRENCH ONLY) AND WEBSITES

		Websites	
	IDÉ	INRS	SDIS
Authorization form – Article-based Master's thesis Water Sciences only	×		
Authorization form – Article-based doctoral dissertation Water Sciences only	x		
Authorization form – Thesis or dissertation written in English Water Sciences only	X		
Confidentiality agreement	×	×	
Dataverse	https://dataverse.	scholarsportal.info	/dataverse/inrs
EspaceINRS	http://espace.inrs.ca/		
Embargo request	x		
Form - Co-supervisor choice	x	×	
Form - Proposition for evaluation committee members (doctoral exam)	×		
Form - Research subject choice	×	×	
Form - Supervisor choice	×	×	
Group training session on MS Word template and thesis writing guide			<u>×</u>
Guide - Graduate studies		×	
Guide - Author rights		<u>×</u>	
MS Word template for thesis or dissertation			X
PDF/A format			X
Submission check list			<u>×</u>

APPENDIX II NUMBER OF ARTICLES RECOMMENDED

For information purposes only (updated 27 June 2018).

Centre Eau Terre Environnement (updated October 29, 2021)

- A dissertation by article must contain at least one article. A thesis by article must contain at least three articles.
- An "article" is a scientific article intended for publication in a peer-reviewed journal
- The student must be the first author of each article and must have played a major, essential and significant role in its preparation
- Requirements and procedures related to the submission of an article-based thesis or dissertation are defined by the Program Committee whose role is to ensure that they are appropriate for a typical research work at that graduate level
- The articles can be published, accepted, or submitted. They must at least be ready for submission. The content and format of an article "ready for submission" is similar to one that is submitted with the exception that it has not yet been submitted

Centre Énergie Matériaux Télécommunications

Telecommunications

- At the doctorate level, the minimum number of articles published is three (3). There is no minimum for the Master's level
- Articles submitted or in preparation are not accepted
- Articles published in unreliable journals (e.g., predatory) may not be accepted. You should discuss beforehand your choice of journal with your supervisor
- A peer-reviewed and published conference paper is acceptable
- Examined on a case-by-case basis

Energy and Material Sciences

- The student must be the first author of the articles, or one of the first in the case of a broad collaboration. The results presented in the articles must mainly come from the student work
- In the case of collaborative articles with multiple authors, the student contribution to the research and writing of the article must be officially certified in writing by the student supervisor when the thesis or dissertation is submitted
- At the doctorate level, at least one article published or accepted in a peer-reviewed journal
- As in the case of a traditional thesis or dissertation, the supervisor is the final judge about the success of the student to fulfill the requirements of his program

- Can also be accepted as additional articles:
 - An official report of another research centre or a national or international organization
 - Manuscripts submitted to a peer-reviewed journal
 - Articles published in peer-reviewed proceedings of international scientific conferences
 - Articles accepted for publication in such proceedings
- Taking into account the research field or the degree of facility to publish in that field, the number of articles submitted within the thesis or dissertation may vary. According to this, the emphasis is put on the quality of the articles without setting a specific minimum number

Centre Armand-Frappier Santé Biotechnologie

Master's in Virology and Immunology

- A minimum of one article
- The acknowledgment of receipt or acceptance letter from the scientific peer-reviewed journal must be provided
- The article must be a complete publication (intro, M&M, results, discussion) based on the student work
- The student must normally be the first author; if the article has several authors, the contribution of each must be certified in writing (figures and tables must be from the student work)

Masters in Experimental Health Sciences

• One article ready for submission

Master's in Applied Microbiology

- A minimum of one article published or intended for publication in a peer-reviewed journal
- The article must be a complete publication (intro, M&M, results, discussion) mostly based on the student work
- The article can be published, accepted, or submitted
- The acknowledgment of receipt or acceptance letter from the scientific peer-reviewed journal must be provided
- The student must be the first author and must have played a major, essential and significant role in its preparation. If the article has several authors, the contribution of each must be certified in writing

Doctorate in Biology

- No predetermined criteria
- Examined on a case-by-case basis as chosen by the supervisor. The objective is that the dissertation shows some scientific advances in the field

Doctorate in Immunology and Virology

- No predetermined criteria
- Examined on a case-by-case basis as chosen by the supervisor. The objective is that the dissertation shows some scientific advances in the field

APPENDIX III THE INTERNATIONAL SYSTEM OF UNITS

All measurements must be stated using the International System of Units (SI). The imperial system should not be used.

International System: quantities and units

BASE QUANTITY		SI BASE UNIT		
Name	Symbol	Name	Symbol	
Length	l, x, r	Metre	m	
Mass	т	Kilogram	kg	
Time	t	Second	S	
Electric current	I, i	Ampere	A	
Thermodynamic temperature	Т	Kelvin	К	
Amount of substance	n	Mole	mol	
Luminous intensity	l _v	Candela	cd	

Table 1. SI base units (n = 7)

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

DERIVED QUANTITY		SI COHERENT DERIVED UNIT		
Name	Symbol	Name	Symbol	
Volume	V	Cubic metre	m ³	
Area	A	Square metre	m²	
Speed, velocity	V	Metre per second	m/s	
Acceleration	а	Metre per second squared	m/s ²	
Wavenumber	<i>σ, v</i> ~	Reciprocal metre	m ⁻¹	
Density, mass density	ρ	Kilogram per cubic metre	kg/m ³	
Surface density	ρΑ	Kilogram per square metre	kg/m ²	
Specific volume	V	Cubic metre per kilogram	m³/kg	
Current density	j	Ampere per square metre	A/m ²	
Magnetic field strength	Н	Ampere per metre	A/m	
Concentration ^(a)	с	Mole per cubic metre	mol/m ³	
Mass concentration	ρ, γ	Kilogram per cubic metre	kg/m ³	
Luminance	L _v	Candela per square metre	cd/m ²	
Refractive index ^(b)	n	One	1	
Relative permeability ^(b)	μ _r	One	1	

Table 2. Examples of coherent derived units in the SI expressed in terms of base units (n = unlimited)

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

^(a) Strictly speaking: amount concentration; in the field of clinical chemistry, this quantity is also called substance concentration.

^(b) Dimensionless quantities, or quantities of dimension one. The symbol "1" for the unit is generally omitted in specifying the values of dimensionless quantities.

DERIVED QUANTITY	SI COHERENT DERIVED UNIT ^(a)			
Name	Special name	Special symbol	In terms of other SI units	In terms of SI base units
Plane angle	radian ^(b)	rad	1 ^(b)	m/m
Solid angle	steradian ^(b)	sr ^(c)	1 ^(b)	m²/m²
Frequency	hertz ^(d)	Hz		s ⁻¹
Force	newton	N		m kg s⁻²
Pressure, stress	pascal	Pa	N/m ²	m ⁻¹ kg s ⁻²
Energy, work, amount of heat	joule	J	Nm	m² kg s⁻²
Power, radiant flux	watt	W	J/s	m² kg s⁻³
Electric charge, amount of electricity	coulomb	С		s A
Electric potential difference, electromotive force	volt	V	W/A	m² kg s⁻³ A⁻¹
Capacitance	farad	F	C/V	m ⁻² kg ⁻¹ s ⁴ A ²
Electric resistance	ohm	Ω	V/A	m² kg s ⁻³ A ⁻²
Electric conductance	siemens	S	A/V	m ⁻² kg ⁻¹ s ³ A ²
Magnetic flux	weber	Wb	V s	m ² kg s ⁻² A ⁻¹
Magnetic flux density	tesla	Т	Wb/m ²	kg s ⁻² A ⁻¹
Inductance	henry	Н	Wb/A	m ² kg s ⁻² A ⁻²
Celsius temperature	degree Celsius ^(e)	°C		К
Luminous flux	lumen	lm	cd sr ^(c)	cd
Illuminance	lux	lx	lm/m ²	m ⁻² cd
Activity referred to a radionuclide ^(f)	becquerel ^(d)	Bq		s ^{−1}
Absorbed dose, specific energy (imparted), kerma	gray	Gy	J/kg	m ² s ⁻²
Dose equivalent (ambient, directional, personal)	sievert ^(g)	Sv	J/kg	m ² s ⁻²
Catalytic activity	katal	kat		s⁻¹ mol

Table 3.	Coherent	derived	units i	n the	SI with	special	names	and sy	vmbols	(n = 22)
10010 01	0011010110	4011104			0	opoolai	mannoo	und O	,	~~	

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

^(a) The SI prefixes may be used with any of the special names and symbols, but when this is done the resulting unit will no longer be coherent.

^(b) The radian and steradian are special names for the number one that may be used to convey information about the quantity concerned. In practice the symbols rad and sr are used where appropriate, but the symbol for the derived unit one is generally omitted in specifying the values of dimensionless quantities.

^(c) In photometry, the name steradian and the symbol sr are usually retained in expressions for units.

^(d) The hertz is used only for periodic phenomena, and the becquerel is used only for stochastic processes in activity referred to a radionuclide.

^(e) The degree Celsius is the special name for the kelvin used to express Celsius temperatures. The degree Celsius and the kelvin are equal in size so that the numerical value of a temperature difference or temperature interval is the same when expressed in either degrees Celsius or in kelvins.

^(f) Activity referred to a radionuclide is sometimes incorrectly called radioactivity.

Table 4. Examples of SI coherent derived units whose names and symbols include SI coherent derived units
with special names and symbols

DERIVED QUANTITY	SI COHERENT DERIVED UNIT ^(a)		INIT ^(a)
Name	Special name	Special symbol	Expressed in terms of SI base units
Dynamic viscosity	pascal seconde	Pas	m ⁻¹ kg s ⁻¹
Moment of force	newton metre	Nm	m² kg s⁻²
Surface tension	newton per metre	N/m	kg s ^{−2}
Angular velocity	radian per seconde	rad/s	$m m^{-1} s^{-1} = s^{-1}$
Angular acceleration	radian per sec. squared	rad/s ²	$m m^{-1} s^{-2} = s^{-2}$
Heat flux density, irradiance	watt per square metre	W/m ²	kg s⁻³
Heat capacity, entropy	joule par kelvin	J/K	m ² kg s ⁻² K ⁻¹
Specific heat capacity, specific entropy	joule per kilogram kelvin	J/(kg K)	$m^2 s^{-2} K^{-1}$
Specific energy	joule per kilogram	J/kg	m ² s ^{−2}
Thermal conductivity	watt per metre kelvin	W/(m K)	m kg s⁻³ K⁻¹
Energy density	joule per cubic metre	J/m ³	m ⁻¹ kg s ⁻²
Electric field strength	volt per metre	V/m	m kg s⁻³ A⁻¹
Electric charge density	coulomb per cubic metre	C/m ³	m⁻³ s A
Surface charge density	coulomb per square metre	C/m ²	m ⁻² s A
Electric flux density, electric displacement	coulomb per square metre	C/m ²	m ⁻² s A
Permittivity	farad per metre	F/m	m ⁻³ kg ⁻¹ s ⁴ A ²
Permeability	henry per metre	H/m	m kg s ⁻² A ⁻²
Molar energy	joule per mole	J/mol	m ² kg s ⁻² mol ⁻¹
Molar entropy, molar heat capacity	joule per mole kelvin	J/(mol K)	m ² kg s ⁻² K ⁻¹ mol ⁻¹
Exposure (x- and γ-rays)	coulomb per kilogram	C/kg	kg ^{−1} s A
Absorbed dose rate	gray per second	Gy/s	m² s ⁻³
Radiant intensity	watt per steradian	W/sr	m² kg s⁻³
Radiance	watt per square metre steradian	W/(m² sr)	kg s⁻³
Catalytic activity concentration	katal per cubic metre	kat/m ³	m ⁻³ s ⁻¹ mol

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

Table 5. SI prefixes

Factor	Name	Symbol
10 ¹	deca	da
10 ²	hecto	h
10 ³	kilo	k
10 ⁶	mega	М
10 ⁹	giga	G
10 ¹²	tera	Т
10 ¹⁵	peta	Р
10 ¹⁸	exa	E
1021	zetta	Z
1024	yotta	Y

Factor	Name	Symbol
10 ⁻¹	deci	d
10 ⁻²	centi	С
10 ⁻³	milli	m
10 ⁻⁶	micro	μ
10 ⁻⁹	nano	n
10 ⁻¹²	pico	р
10 ⁻¹⁵	femto	f
10 ⁻¹⁸	atto	а
10 ⁻²¹	zepto	Z
10 ⁻²⁴	yocto	У

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006)

SI and non-metric units

Non-SI units include those whose use is accepted, should be limited, and should be avoided.

Units that are accepted without restriction are divided into two types:

- The first includes **traditional units** that are widely used in everyday life and can plausibly be expected to remain in use indefinitely. These include units of time, plane angle, and area (Table 6).
- The second are **units related to fundamental constants**: for example, the electron has a charge, but a very specific value, which must be determined experimentally; this is the case for the electronvolt, the dalton, and other units (Table 7).

Units whose use is limited are also divided into two types:

- Unit systems developed in specific domains, rather than units: "natural" units in high energy or particle physics, and "atomic" units in atomic physics and quantum chemistry (Table 7). Since their use with SI units has not been formally accepted, the final result of a measurement or calculation should always be expressed in the corresponding SI unit.
- Units that strictly satisfy commercial, legal, or specialized scientific needs: nautical miles and knots, in aviation and navigation; pressure in millimetres of mercury, in healthcare (Table 8); the CGS (centimetre-gram-second) system, which still has its followers but has different base units than those of SI (Table 9). Those who use these units must always give their definitions in terms of SI units.

Units that should be avoided form a group, which is not explicitly listed. There is no case for using these units in modern scientific and technical work; they include imperial system units and even metric units whose formulation is incorrect in the International System of Units (e.g., micron rather than micrometre).

Quantity	Name of unity	Symbol	Value in SI units
	Minute	min	1 min = 60 s
Time	Hour	h	1 h = 60 min = 3600 s
	Day	d	1 d = 24 h = 86 400 s
	Degree	0	1º = (π/180) rad
Plane angle	Minute	'	1′ = (1/60)° = (π/ 10 800) rad
	Second	"	1″ = (1/60)′ = (π/ 648 000) rad
Area	Hectare	ha	1 ha = 1 hm ² = 10^4 m ²
Volume	Litre	L or I	$1 L = 1 I = 1 dm^3 = 10^3 cm^3$
Mass	Tonne	t	$1 t = 10^3 kg$

 Table 6. Non-SI units accepted for use with the International System of Units

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

Quantity	Units accepted for use with the S	Symbol	Value in SI units
Energy	electronvolt	eV	1 eV = 1.602 176 53 × 10 ⁻¹⁹ J
Maaa	dalton	Da	1 Da = 1.660 538 86 × 10 ⁻²⁷ kg
IVIASS	unified atomic mass unit	u	1 u = 1 Da
Length	astronomical unit	ua	1 ua = 1.495 978 706 91× 10 ¹¹ m

Table 7. Non-SI units whose values in Si units must be obtained experimentally

	Natural units		
speed	of speed	C 0	299 792 458 m/s (speed of light in vacuum)
Action	of action	ħ	1.054 571 68 × 10 ^{−34} J s (reduced Planck constant)
Mass	of mass	m _e	9.109 3826 × 10 ⁻³¹ kg (<i>electron mass</i>)
Time	of time	ħ/m _e c₀²	1.288 088 6677 × 10 ⁻²¹ s

	Atomic units		
Charge	of charge	е	1.602 176 53 × 10 ^{−19} C (elementary charge)
Mass	of mass	m _e	9.109 3826 × 10 ⁻³¹ kg (<i>electron mass</i>)
Action	of action	ħ	1.054 571 68 × 10 ^{−34} J s (reduced Planck constant)
Length	of length, bohr	a_0	0.529 177 2108 × 10 ^{−10} m <i>(Bohr radius)</i>
Energy	of energy, hartree	E _h	4.359 744 17 × 10 ^{−18} J <i>(Hartree energy)</i>
Time	of time	\hbar/E_h	2.418 884 326 505 × 10 ⁻¹⁷ s

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

Table 8. Othe	r non-SI units tha	at satisfy specia	al needs (es	pecially legal ar	nd commercial ones)
				p • • • • • • • • • • • • •	

Quantity	Name of unit	Symbol	Value in SI units
Dueses	bar	bar	1 bar = 0.1 MPa = 100 kPa
Flessule	millimetre of mercury	mmHg	1 mmHg = 133.322 Pa
Length	ångström	Å	1 Å = 0.1 nm = 100 pm = 10 ⁻¹⁰ m
Distance	nautical mile	М	1 M = 1852 m
Area	barn	b	$1 \text{ b} = 100 \text{ fm}^2 = (10^{-12} \text{ cm})^2$
Speed	knot	kn	1 kn = (1852/3600) m/s
Logarithmic ratio quantities	neper	Np	
	bel	В	
	decibel	dB	

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

Quantity	Name of unit	Symbol	Value in SI units
Energy	erg	erg	1 erg = 10 ⁻⁷ J
Force	dyne	dyn	1 dyn = 10 ⁻⁵ N
Dynamic viscosity	poise	Р	1 P = 1 dyn s cm ⁻² = 0.1 Pa s
Kinematic viscosity	stokes	St	1 St = 1 cm ² s ⁻¹ = 10 ⁻⁴ m ² s ⁻¹
Luminance	stilb	sb	$1 \text{ sb} = 1 \text{ cd cm}^{-2} = 10^4 \text{ cd m}^{-2}$
Illuminance	phot	ph	1 ph = 1 cd sr cm ⁻² = 10^4 lx
Acceleration	gal	Gal	1 Gal = 1 cm s ⁻² = 10 ⁻² m s ⁻²
Magnetic flux	maxwell	Mx	$1 \text{ Mx} = 1 \text{ G cm}^2 = 10^{-8} \text{ Wb}$
Magnetic flux density	gauss	G	$1 \text{ G} = 1 \text{ Mx/cm}^2 = 10^{-4} \text{ T}$
Magnetic field	œrsted	Oe	$1 \text{ Oe} \cong (10^{3}/4\pi) \text{ A m}^{-1}$

Table 9. Non-units associated with the CGS and the CGS-Gaussian system of units; they must be defined in SI units

Adapted from the Organisation intergouvernementale de la Convention du Mètre brochure (2006).

APPENDIX IV WRITING CONVENTIONS

Style of emphasis

Italics are used to:

- Highlight foreign words
- Draw attention to certain bibliographic information
- Indicate quantities, values, units and symbols based on the conventions in effect

Bold style is useful in texts where the reader has to look for specific information. <u>Underlining</u> should be avoided as much as possible.

Digits, numbers and symbols

Numerical values are expressed according to the International System of Units (SI). An overview of the accepted conventions is given in Appendix II. In the event you must diverge from this style, the sole requirement is to remain consistent throughout the document.

NOTATION OF QUANTITIES, UNITS, AND SYMBOLS			
Applicable conventions	Examples	Unacceptable examples	
For quantities			
Generally a single letter in italic font	x, t (distance, time)	x, t	
Further information in subscript, superscript, or in parentheses	x_{0}, t_{max}		
For units			
Nouns with initial lowercase letter, even when derived from proper nouns	pascal	Pascal	
Symbols in roman (upright) type	m, s (metre, seconde)	<i>m</i> , s	
1 st letter of a symbol capitalized when	Pa	ра	
derived from a proper noun	Ω (omega, pour ohm)	ω	
Do not mix nouns and symbols	newton per kilogramme	newton per kg	
No abbreviations in place of symbols	s, min, cm³, m/s	sec, mn, cc, mps	
No period except at the end of a sentence	cm	cm.	
Symbols remain singular	9 cm	9 cms	
	30 cm	30cm	
Always preceded by an non-breaking space	30,2 °C	30,2°C	
	30.2 °C	30,2° C	
Exceptions			
Sexagesimal units of an angle	40° 16' 25"	40 ° 16 ' 25 "	
Degrees of alcohol	90°	90 °	
Litre symbol, either "I" or "L"	1 L = 1 000 ml l = 1 000 ml		

MULTIPLICATION AND DIVISION NOTATION				
Applicable conventions	Examples	Unacceptable examples		
With quantity symbols				
Multiplication marked by space or no space, " · " sign or " x " sign	ab, a b, a · b, a × b			
Division marked by oblique, horizontal line, negative superscript	a/b, a b⁻¹			
With unit symbols				
Multiplication marked by space, " · " sign	m s or m·s	ms (milliseconde)		
Division marked by oblique, horizontal line,	m/s, m·s⁻¹			
negative superscript but never more than	À/(m s) or A⋅m⁻¹⋅s⁻¹	A/m/s		
one oblique (to avoid ambiguity)	À/(m/s) or A⋅s⋅m⁻¹	A/m/s		
With quantity values and numbers				
As with unit symbols but no " \cdot " sign	(53 m/s) × 10,2 s (53 m/s)(10,2 s) 25 × 60.5	(53 m/s) · 10,2 s (53 m/s) · (10,2 s) 25 · 60.5		

PREFIX NOTATION FOR MULTIPLES AND SUBMULTIPLES OF UNITS		
Applicable conventions	Examples	Unacceptable examples
In roman (upright) and lowercase type prefixes attached without space or hyphen with a single prefix	Milli Milliseconde Nanometre 10-6 kg = 1 mg	Milli milli-seconde millimicrometre 1 µkg (microkilogramme)
Uppercase symbol for multiples except for da (deca), h (hecto), and k (kilo)	G (giga) kg	g Kg
Lowercase symbol for submultiples	p (pico)	Р

VALUE NOTATION		
Applicable conventions	Examples	Unacceptable examples
Period or comma preceded by a zero, between -1 and +1	-0.234 or -0,234	not234 or -,234
Optional separation into groups of 3 digits but with spaces only	43279.16829 or 43 279.168 29	43,279.168,29

All number and units that begin a sentence must be written out (ten, not 10). Elsewhere in the text, only numbers greater than ten (10) are written in Arabic numerals. The rest are written out, unless:

- They are part of a series or a list (e.g., page 8; tables 2, 7, 9)
- They are followed by a symbol or a quantity abbreviation (e.g., 8%; 3 cm)

Large numbers are to be written in the language of the document (e.g., thesis in English => Anglo-Saxon names, or dissertation in French => French names):

Noms anglo-saxons	Noms français
Million	Million
Billion	Milliard
Trillion	Billion
Quadrillion	Billiard
Quintillion	Trillion

Breaking or nonbreaking spaces

In this section, " ° " represents a nonbreaking space and " x " an alphanumeric character.

Brackets and quotation marks	
No space inside Ordinary space outside	(xx) [xx] {xx} "xx"
Nonbreaking space inside Ordinary space outside	«°XX°»

Punctuation and typographical marks		
Apostrophe, oblique, hyphen	No space before or after	xx'xx xx/xx xx-xx
Period, comma, ellipsis, superscript, semicolon, exclamation mark, question mark	No space before Ordinary space after	xx. xx, xx xx* xx! xx? xx;
Colon	Nonbreaking space before Ordinary space after	xx°: xx
Dash	Nonbreaking space before Nonbreaking space after	xx - xx
Ampersand	Ordinary space before and after	xx & xx

Acronyms and trademarks

Acronyms are used only if they must to be repeated frequently. They are defined in the first occurrence to avoid ambiguity. Acronym use is not recommended in titles and subtitles.

Trademarks are proper nouns and are written with a capital letter and the [®] abbreviation, but both are dropped when terms are used in their generic sense or when the trademark has become a common noun. For instance, write: Aspirin[®] and Azantac[®], but aspirin, ranitidine, cellophane, and thermos.

Taxonomy and toponymy

In taxonomic nomenclature, class, order, family, and genus names take an initial capital letter. Species names are always written with an initial lowercase letter, including proper nouns. For example:

- Cypripedium [genus] parviflorum [species] var. planipetalum [variety]
- the American elm, *Ulmus amaricana*

All geographical toponyms used in the text must appear on a locator map unless the place named is well known (e.g., Montreal).

APPENDIX V EXAMPLES OF DIFFERENT TYPES OF DOCUMENTS

Books (monographs)	
Definition	A monograph is a complete non-periodical publication which may comprise one or more volumes (book, report, etc.).
EndNote model	Book
Example	Soutter M, Mermoud A, Musy A (2007) <i>Ingénierie des eaux et du sol: processus et aménagements</i> . Presses polytechniques et universitaires romandes, Lausanne. 294 p.

Collective works		
Definition	Should be used if the authors have compiled chapters written by a group of other authors.	
EndNote model	Edited Books	
Example	Ouellette FR, Joyal R, Hurtubise R (Eds.) (2005) <i>Familles en mouvance: Quels enjeux éthiques?</i> Presses de l'Université Laval, Québec. 399 p.	

Book chapters		
Definition	Chapters of a monograph treated as independent entries.	
EndNote model	Book Section	
	Augustin G, Rao Q, Denidni TA (2016) Low-profile antennas. <i>Handbook of Antenna Technologies</i> , Chen ZN, Liu D, Nakano H, Qing X, Zwick T (Eds.) Springer, Singapore Vol 2 pp. 1531-1564.	
Examples	Bertrand-Krajewski JL, Fletcher TD, Mitchell VG (2007) Spatial and temporal scale considerations. <i>Data Requirements for Integrated Urban Water Management</i> , (Urban Water Series - UNESCO-IHP: 1), Fletcher TD & Deletic A (Eds.) CRC Press, Boca Raton. pp. 45-64.	

Conference papers	
EndNote model	Conference Proceedings
	Conference Paper
Example	Zarifi K, Abuthinien M, Ghrayeb A, Affes S (2009) Relay selection schemes for uniformly distributed wireless sensor networks. IEEE Wireless Communications and Networking Conference, WCNC. (Budapest, April 5-8, 2009), p #4917942.

Journal articles	
Note	The title of the journal should be written in full, not abbreviated.
EndNote model	Journal article
Example	Ben Rebah F, Prevost D, Yezza A, Tyagi RD (2007) Agro-industrial waste materials and wastewater sludge for rhizobial inoculant production: A review. <i>Bioresources Technology</i> 98(1):3535-3546.

Theses and dissertations	
EndNote model	Thesis
Examples	Constant P (2008) Étude du cycle biogéochimique du dihydrogène et du mercure en utilisant une approche intégrée. Doctor of Philosophy (Ph.D.) in Biology (Université du Québec, Institut national de la recherche scientifique, Québec). 215 p. <u>http://espace.inrs.ca/170</u>
	Miletti T (2001) <i>L'interaction entre les leucocytes et les coronavirus humains</i> . Master of Science (M.Sc.) in Virology and Immunology (Université du Québec, Centre Armand-Frappier Santé Biotechnologie). xiii, 104 p.

Patents		
Definition	Note that a patent application is not a patent. A patent always has an issue date (zone 45 in the official document). A patent application can be cited but with the indication Patent application not Patent.	
EndNote model	Patents	
Examples	Katagiri G-I (2015) Resin volume reduction processing system and resin volume reduction processing method. US Patent 9040767 (United States) May 26, 2015.	
	Wu H, Hatzigeorgiou S, Tremblay M, Stoute B (2018) Calibration system and method for optimizing leakage performance of a multi-port amplifier. US Patent Applications 2018/0183397 A1 (United States) 12/22/2017.	

Official documents and reports			
Definition	Official documents are issued by a government or an international organization without a clearly established individual author. As a result, the author name is replaced by the level of government in charge of the document, followed by the name of the ministry or administrative division, or by the name of the organization and the administrative division.		
EndNote model	Book		
Examples	Montréal. Service de l'environnement (2003) <i>Plan d'action vert pour le Vieux- Montréal</i> . Montréal, Canada, 64 p.		

Official documents and reports			
	United Nations. United Nations Environment Programme (2009) <i>Mongolia</i> Assessment Report on Climate Change 2009. United Nations, New York. 228 p: http://www.unep.org/pdf/ MARCC2009_BOOK.pdf (Accessed May 28, 2010)		
	US EPA (2013) Projected Emission Reductions Overstated and Buy American Requirements Not Met Under EPA Award to the Tennessee Department of Transportation, Report No. 13-R-0321. US Environmental Protection Agency, Washington.		

Newspaper articles			
Note	Publication date must include day and month.		
EndNote model	Newspaper Article		
Example	Lemieux LG (2004) La Société du 400 ^e , l'INRS et la CCNQ publieront un livre sur Québec et sa région. <i>Le Soleil</i> (Québec), La Capitale et ses régions, January 8, 2004, p. A10		

Web pages and other online resources (e.g., data set)					
	If the publication date is not clearly indicated, use 1) the copyright date OR 2) the date of the last update, OR as a last resort, 3) the page access date.				
Notes	If the title of the web page is not well defined, use what most clearly resembles the title in the body of the page.				
	Also useful for files in open databases.				
	Make sure that URL is permanent.				
EndNote model	Web page				
	Environnement Canada (2007) <i>Trichloréthylène - Fiche toxicologique</i> . Environnement Canada, Département des eaux intérieures et des écosystèmes aquatiques, Ottawa, <u>http://www.ec.gc.ca/dee/toxihelp/26374.php</u> (Accessed November 13, 2008)				
	US NOAA (2014) <i>NOAA predicts near-normal or below-normal 2014 Atlantic hurricane season</i> . National Oceanic and Atmospheric Administration, Washington, DC. <u>http://goo.gl/tPrQQc</u> (Accessed July 2, 2014)				
Examples	In-text citation: (Chemspider, 2018) In bibliography: Chemspider (2018) <i>Citric Acid.</i> Royal Chemistry Society, <u>http://www.chemspider.com/Chemical-Structure.305.html?rid=94b7b2b9-cd8f-</u> <u>4f5f-bb62-6deff9763a91</u> (Accessed June 7, 2018)				
	In-text citation: (Pubchem, 2018) In bibliography: Pubchem (2018) <i>Caffeine</i> . <u>https://pubchem.ncbi.nlm.nih.gov/compound/2519</u> (Accessed June 7, 2018)				

Audiovisual material			
Note	Mention the support type (e.g., DVD).		
EndNote model	Audiovisual material		
Example	Monderie R, Desjardins R (1999) <i>L'Erreur boréale</i> . National Film Board of Canada, Montréal, DVD 55 min.		

Maps and aerial photos			
Note	Mention the scale and, if available, the series number.		
EndNote model	Мар		
Example	Avramtchev L, Lebel-Drolet S (1979) Carte des gîtes minéraux du Québec région de l'Abitibi. Ministry of Energy and Natural Resources, Quebec (1:250000)		

Google Maps						
Note	Use this model for maps only. For satellite images, use the model for Google Earth below.					
EndNote model	ote model Map					
Examples	GoogleMaps (June 6, 2018) Parc national du Mont-Mégantic, Québec, Cana https://www.google.com/maps/place/Parc+national+du+Mont- M%C3%A9gantic/@45.423286,- 71.1259421,15z/data=!4m5!3m4!1s0x0:0x7e53a05c903ea2d0!8m2!3d45.42324 4d-71.1259421 GoogleMaps (June 6, 2018) Parc national du Mont-Mégantic, Québec, Cana https://goo.gl/bmXcv5					

Google Earth					
Note	Map editor and version (if available), year of the data used for the map, image details: location, coordinates, elevation, data source (if available), map consultation date, URL address.				
EndNote model	Мар				
	Google Earth Pro 7.3 2016 (ou 29/01/2016). <i>Kilauae, Hawaii</i> 19° 24' 22.35' 'N, 155° 17' 01.15'' W, elevation 1031 m, altitude 2.19 km, 3D map (June 6, 2018), <u>https://www.google.com/earth/index.html</u>				
Examples	Google Earth Pro 7.3 (29/01/2016). <i>Wood Buffalo Estates, Fort McMurray, Alberta, Canada</i> 56° 72' 31.08" N, 111° 27' 58.23" W, elevation 360 m, altitude 1.05 km, 3D map, DigitalGlobe (June 6, 2018), https://www.google.com/earth/index.html				

Regulations, bills or laws				
Note	Useful information: <u>http://web5.uottawa.ca/www2/rl-lr/fra/citations-juridiques/1_13-reglements_fed.html</u>			
EndNote model	Legal Rule or Regulation			
Example	Government of Canada (2007) <i>Asbestos Products Regulations</i> , Statutory Orders and Regulations (SORs), 260, art 5			

APPENDIX VI OPTION A

Unified bibliography at the end of the document

This method has the advantage of being more flexible during writing, especially when several authors are involved. However, it requires editorial work near the end of the process to ensure that the different elements inserted are consistent with one another.

Each article is treated separately during writing and revision by the authors. The version that is to become a chapter should be inserted in the thesis or dissertation **only at the end of the process**, **just before the initial submission**. This aspect is important, because once the article is inserted in the master document, the chapter version becomes independent from the article version and both will from that point evolve separately. It is thus better to wait as late as possible in the process until all co-author comments have been received and included in order to do this operation only once.

After inserting the article as a chapter in the thesis or dissertation, the body text must be revised to ensure that all in-text citations are formatted according to the Endnote style *INRS-Sciences et technologies*, especially if a numeric style was used in the article instead of the INRS "author-date" style.

For a unified bibliography, use the MS Word template for traditional theses.

Procedure:

- Write each article in an independent MS Word file
- Just before initial submission, turn off Instant Formatting on the Endnote menu

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2	😨 Edit & Manage Citation(s)	🕞 Update	pdate Citations and Bibliography		🔢 Instant Formatting is Off 🗸		\Xi Preferen	ices
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- Delete the bibliography at the end of the article
- Copy and paste the article at the right place in the master document of the thesis
- Choose Endnote style *INRS-Sciences et technologies*
- Revise the text to adjust the citations and their sentences
- Once all the chapters have been inserted, use Endnote to generate the bibliography (Update Citations and Bibliography)

- Revise the chapter headings and text styles to conform to the template
- Ensure that the table of contents and lists of figures and tables have been automatically adjusted by MS Word

APPENDIX VII OPTION B

Multiple bibliographies: one per chapter/article

In this method, each chapter contains an independent bibliography, and multiple bibliography styles may be used within the overall document that will be submitted for the thesis. This method is not recommended for traditional theses or dissertations, but it can be advantageous for article-based ones as each chapter's bibliography can remain formatted according to the rules of the journal to which it was submitted. Note, however, that this approach requires great attention to detail, mainly to harmonize the page layout in the final document. The procedure described below applies to theses and dissertations in which Endnote is used to manage the references.

A copy of each independent article/chapter must be kept along with a master version of the combined document until the end, when the final submission version has been corrected.

For each section (chapter/article) of the document, bibliographies of different styles will be generated by Endnote. Save each section as an independent file. Once the chapter/article has been inserted in the master document, adjust page numbers and fonts according to the template used.

Note: It is strongly recommended that the articles/chapters be inserted **at the end of the process**, **just before submission**, in order to do this operation only once.

Procedure:

- Write each article with its respective bibliography in an independent MS Word file
- Just before initial submission, remove Endnote codes from each article:



• Save a version of the article WITH the Endnote codes and a version WITHOUT. The version WITHOUT will be the one inserted in the master document. The version WITH codes can be used for article updates independently from the thesis (see note above)

- In the master document, insert a page break after the title page of each chapter/article to be inserted
- Copy and paste the article at the right place in the master document
- Revise the text to adjust the citations and their sentences
- Adjust page numbers, fonts, margins, and line spacing to harmonize with the rest of the document
- Revise chapter headings and text styles to conform to the template (consult thesis guide if the title is very long)
- **Note:** You will have to adjust figure and table numbering manually and shorten their titles to ensure that they appear correctly in the table of contents and the figure and table lists
- Once the article has been added, you will not be able to add or remove any reference in that section without having to restart the fusion of the document process from the beginning. It is thus important to do this operation only once **at the end** AND to save a copy of the master document and copies of each article/chapter in independent files