by

*Dissertation presented for the degree of
Doctorate of Philosophy ()
in the Faculty of Medicine and Health Sciences*

*at Stellenbosch University*

Supervisor:

Co-supervisor:

by

*Dissertation presented for the degree of
Doctorate of Philosophy (Type domain name as per Yearbook)
in the Faculty of Medicine and Health Sciences at
Stellenbosch University*

Supervisor:

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***Please note:****For their final dissertation (after the examination process), students must use the official****SU dissertation title page template****which contains the SU primary logo and branding design. The University’s primary logo features on the title page of the final dissertation to establish the institution’s conferral of the degree and may not be placed on any other page of the manuscript.*

**Enquiries & help**: tel +27 21 808 9139 / 9046  |  Email
**Physical office**: Stellenbosch University Library, Room 1025

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| ​​​The submission of theses and​ dissertations for graduationperiod has moved to **SunStudent**. The process of nominating students to submit a dissertation for graduation now is called **Thesis Management**, and sits under the SunStudent tab for **Examinations**.

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| ​​​**It remains the student's responsibility to forward the final revised copy in PDF, to their supervisor/promoter or administrative staff.**​ **This copy is used for the submission process.** |

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**Student prepares document**

The student prepares the document for furnishing in electronic format. Dissertations should be created according to the instructions as set out in the [Yearbook 2024 - Part 1, General information and rules](https://www.sun.ac.za/english/Documents/Yearbooks/Current/2024_%28Eng%29_Part_1_General_Rules.pdf): Section 5.7.

**1. Compulsory information**

All dissertations published by Stellenbosch University should contain the following compulsory information:

* Title page template
* Declaration
* Abstract: In the language of the thesis or dissertation (max. 500 words)
Abstract translated into two other languages of SU (max. 500 words)
* Acknowledgements
* Table of Contents
* List of Figures
* List of Tables
* Content (e.g. Chapter 1, Chapter 2, etc.)
* Reference List (See [Referencing techniques](https://libguides.sun.ac.za/c.php?g=742962&p=5316064))
* Addenda (e.g. Addendum A, Addendum B, etc.

**2. Requirements for typewriting**

* Font type: Cambria or Calibri (effective 2024)
* Font size: 10, 11 or 12 font size
* Line spacing: 1.5, Double, or Single
* Borders: Blank border of not less than 2 cm in width around the entire typewritten portion
* Paper size: A4

**3. Furnishing in electronic format**

* To convert files to PDF format when using MS Word v.2016 and later, choose option:
* **File  >>  Save as Adobe PDF**  (\*.pdf)
* Save the document by using the following file naming convention:
**surname\_studentnumber\_2025**.pdf - eg **January\_12345678\_2021**.pdf
* The **master copy** of the dissertation for the [SUNScholar Research Repository](https://scholar.sun.ac.za/) must be submitted electronically in PDF format

**IMPORTANT**

* It at all times remains the responsibility of the student to verify the contents of the converted PDF document in order to ensure that no structure or content of the original source document was lost or manipulated during the conversion process.
* Do not add your signature to the bottom of the declaration. Simply type your nam​​e below the declaration. The reason for this is, the whole process is recorded electronically as proof that all parties adhere to the policy.
* Please do not add any securities to your PDF document.

**Microsoft Office365 software**

* As a Stellenbosch University registered student you are eligible to receive the Microsoft Office365 software for free. Download [Office365 here](https://tech.sun.ac.za/software/).

**LaTeX software**

* The LaTex packages can be downloaded or installed directly via TexLive or MikTeX from here <https://ctan.org/pkg/stellenbosch-2>
* Find the SU title page templates under the DOC directory.

**Supervisor/promoter or administrative upload and submit**

In SunStudent **Thesis Management** only the final dissertation is uploaded in PDF format.
This is the copy following examination, and after all corrections have been made.

The user guide for **Thesis Management**is available in the SUNStudent Learning Library (bottom of the screen in SunSStudent).

To summarise the process:

1. The final dissertation must be submitted in PDF format.
2. Using the Chrome browser, log onto **[SUNStudent](https://student.sun.ac.za/)** with your SU credentials.
3. Click on **Examinations**, then click **Thesis Management**.
4. The supervisor/promoter or administrative staff member nominates the candidate.
5. Please make use of **Remarks** to indicate the month and year of graduation.
6. The dissertation is uploaded; and then approved; by the nominator.
7. The dissertation will be publicly accessible on [SUNScholar](https://scholar.sun.ac.za/) following graduation.

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Due to the sensitive nature of security and ongoing enhancements to Thesis Management the upload of the final dissertation must be done by the supervisor/promoter/administrative staff.

Please note that if you do not have access to SUNStudent access can be provisioned by following these steps:

1. Please access the SUNStudent Service Desk [**here**](https://servicedesk.sun.ac.za/jira/plugins/servlet/theme/portal/29).
2. The tile marked 'user access management' is the section that allows users to complete their user role access request.

**Publishing books/chapters in books and copyright**
All inquiries related to copyright and the publication of books/chapters in books as a result of a dissertation can be directed to [InnovUS](https://innovus.co.za/).

**Signature on declaration page**
Please note that the signature is no longer required, and that the student can simply type their nam​​e below the declaration. The reason for this is, the whole process is recorded electronically as indication that all parties adhere to the policy.

The Stellenbosch University policy guidelines on submitting a copy with SUNScholar is available in the [General Yearbook 2024](http://www.sun.ac.za/english/Documents/Yearbooks/Current/2024_%28Eng%29_Part_1_General_Rules.pdf): Section 5.7.1 for a thesis and Section 6.10.1 for a dissertation.

Once approved and processed by the library, the dissertation will be available online via [SUNScholar Research Repository](https://scholar.sun.ac.za/) for others to access, provided that no restrictions apply.

SUNScholar enquiries & help:  Email  |  tel +27 21 808 9139 / 9046

Source: <https://library.sun.ac.za/en-za/Help/Pages/online-thesis-submission.aspx>

***Neem asb. kennis:****Vir hulle finale verhandelinge (ná die eksamineringsproses), moet studente die amptelike****US-verhandeling titelbladsytemplaat****gebruik**wat die US primêre logo/handelsmerk en handelsmerkontwerp bevat.*
*Die Universiteit se primêre logo/handelsmerk verskyn op die titelbladsy van die finale tesis om die instelling se toekenning van die graad te bevestig en mag nie op enige ander bladsy van die tesis geplaas word nie.*

**Navrae & hulp**: t: +27 21 808 9139 / 9046  |  E-pos **Fisiese kantoor**:​ Universiteit Stellenbosch Biblioteek, Kamer 1025​

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| Die nominasie van studente en die inlewering van tesisse en proefskrifte vind nou binne **SUNStudent** plaas. **Thesis Management** kan gevind word onder die opskrif **Examinations.****Dit bly die student se verantwoordelikheid om te verseker hul finale, gekorrigeerde dokument in PDF-formaat is by hul promotor of administratiewe personeellid ingelewer.** |

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| **Student berei dokument voor** |

Die student berei die dokument in PDF-formaat voor vir inlewering volgens die riglyne in die [Jaarboek 2024 - Deel 1, Algemene inligting en reëls](https://www.sun.ac.za/english/Documents/Yearbooks/Current/2024_%28Afr%29_Deel_1_Algemene_Re%C3%ABls.pdf): Afdeling 5.7.

**1. Verpligte inligting**

Alle tesisse/proefskrifte wat deur die Universiteit Stellenbosch gepubliseer word, moet die volgende dokumentuitleg bevat:

* Titelblad templaat
* Verklaring:  [Meestersgraad](https://library.sun.ac.za/SiteCollectionDocuments/howdoi/Verklaring_tesis_2017.pdf) / [Doktoraal](https://library.sun.ac.za/SiteCollectionDocuments/howdoi/Verklaring_proefskrif_2017.pdf)
* Opsomming: In die taal van die tesis of proefskrif (maks. 500 woorde)
Bykomende opsomming (opsioneel): In tweede taal (maks. 500 woorde)
* Erkennings
* Inhoudsopgawe
* Lys van Figure
* Lys van Tabelle
* Inhoud (bv. Hoofstuk 1, Hoofstuk 2, ens.)
* Lys van verwysings (Sien [Verwysingstegnieke](https://libguides.sun.ac.za/c.php?g=742962&p=5316064))
* Addenda (bv. Addendum A, Addendum B, ens.)

**2. Vereistes vir tikwerk**

* Lettertipe: Cambria of Calibri (met ingang 2024)
* Lettergrootte: 10, 11 of 12 lettergrootte
* Lynspasiëring: 1.5 dubbel, of enkel
* Blanko kantlyne: 2cm breed om die hele getikte gedeelte.
* Papiergrootte: A4

**3. Inlewering in elektroniese formaat**

* Om lêers na PDF-formaat om te skakel in MSWord v.2016 en later, kies opsie:  **File  >>  Save as Adobe PDF**  (\*.pdf)
* Gebruik die volgende formaat vir lêernaam "File name": **van\_studentenommer\_2021**.pdf
bv. **January\_12345678\_2021**.pdf
* **Die meesterkopie** van die verhandeling vir die [SUNScholar Research Repository](https://scholar.sun.ac.za/) moet in PDF-formaat by wyse van ŉ elektroniese proses ingelewer word.

 **BELANGRIK**

* Die verantwoordelikheid berus te alle tye by die student om seker te maak dat die dokument onveranderd gebly het nadat die omskakeling na PDF-formaat plaasgevind het.
* Moet geen handtekening onderaan die verklaring aanbring nie. Tik slegs jou naam onderaan die verklaring. Die hele proses word elektronies van rekord gehou, as bewys dat alle partye volgens die beleid handel.
* Moet asb. geen sekuriteite aan jou PDF-dokument koppel nie.

**Microsoft Office365-sagteware**

* Microsoft Office365-sagteware is gratis beskikbaar aan alle geregistreerde studente van die Universiteit Stellenbosch. Laai [Office365 hier](https://tech.sun.ac.za/software/) af.

**LaTeX-sagteware**

* ​Die LaTeX-sagteware kan direk van TexLive of MikTex by <https://ctan.oeg/pkg/stellenbosch-2> afgelaai en geïnstalleer word.
* Vind die US-titelbladtemplaat onder die DOC-gids.

**Studieleier/promotor of administratiewe personeellid lewer elekronies in en aanvaar**

In **SUNStudent** se **Thesis Management** funksie word slegs die finale, gekorrigeerde tesis of proefskrif in PDF-formaat ingelewer.

Die gebruikersgids vir **Thesis Management** is beskikbaar in die SUNStudent Learning Library, onder aan die bladsy binne SunStudent. Om die proses op te som:

1. Die finale dokument moet in PDF-formaat wees.
2. Gebruik die Chrome baller en teken met jou US-besonderhede in by [**SUNStudent**](https://student.sun.ac.za/).
3. Kliek op **Examinations**, en kliek **Thesis Management**.
4. Die promotor of administratiewe personeellid nomineer die kandidaat.
5. Maak gebruik van **Remarks** om die maand en jaar van graduering aan te dui.
6. Die verhandeling word deur die nomineerder opgelaai; en daarna goedgekeur.
7. The verhandeling sal na afloop van die gradeplegtigheid algemeen toeganklik wees via [SUNScholar](https://scholar.sun.ac.za/).

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Weens sekuriteitsredes en die voortdurende opgradering van **Thesis Management,** sal die inlewering van verhandelinge slegs deur die studieleier/promotor of administratiewe personeellid gedoen word.

Toegang tot **SUNStudent** kan soos volg bekom word:

1. Kliek [**hier**](https://servicedesk.sun.ac.za/jira/plugins/servlet/theme/portal/29) vir toegang tot SUNStudent Service Desk.
2. Kies die 'user access management' blok om 'n versoek vir toegang te rig.

**Publikasie van boeke/hoofstukke in boeke en kopiereg**
Navrae mbt kopiereg en die publikasie van boeke/hoofstukke in boeke as uitvloeisel van 'n verhandeling kan aan [InnovUS](https://innovus.co.za/) gerig word.

**Handtekening op deklarasie/verklaringsbladsy**
Neem asb kennis dat 'n handtekening nie langer benodig word nie, en dat die student slegs hul naam onderaan die verklaring kan tik. Die hele proses word elektronies van rekord gehou, as aanduiding dat alle partye volgens die beleid handel.

Die beleidsriglyne vir die inlewering van 'n kopie op SUNScholar is in die Universiteit Stellenbosch [Jaarboek 2024 - Deel 1, Algemene inligting en reëls](https://www.sun.ac.za/english/Documents/Yearbooks/Current/2024_%28Afr%29_Deel_1_Algemene_Re%C3%ABls.pdf) beskikbaar: Afdeling 5.7 vir tesisse en Afdeling 6.10.1 vir proefskrifte.

Sodra die verhandeling deur die SUNScholar-kantoor goedgekeur en verwerk is, sal dit via die [SUNScholar Research Repository](https://scholar.sun.ac.za/) algemeen toeganklik wees, op voorwaarde dat geen beperkinge geld nie.

SUNScholar enquiries & help:  E-pos  |  t: +27 21 808 9139 / 9046

Bron: https://library.sun.ac.za/af-za/Help/Pages/online-thesis-submission.aspx

deur

*Verhandeling ingelewer ter voldoening aan die vereistes vir die graad van
Doktorsgraad in die Wysbegeerte ()
in die Fakulteit Geneeskunde en Gesondheidswetenskappe*

*aan die Universiteit Stellenbosch*

Promotor:

Mede-promotor: