University of Nebraska Medical Center

GRADUATE STUDIES

Thesis & Graduation Instructions for M.S. Students (Thesis Option)

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Use the checklist below to ensure that you have completed all steps required to graduate (do these tasks in order):

1) After all revisions to the thesis are completed, run one final accessibility check in Microsoft Word. **Take a screenshot after you run the final accessibility check in Microsoft Word to prove that the document has no outstanding issues related to accessibility.**
2) Convert the accessible docx file to an accessible PDF for submission.
3) **Prior to February 10th** (for May graduation), **June 10th** (for August graduation) **or October 10th** (for December graduation): Complete the degree application on MyRecords.
4) Complete the Convocation & Accomplishments Survey. The information that you provide is presented in the Convocation program and ceremony.
5) Complete the Graduate Program Effectiveness & Student Satisfaction Survey.
6) Ensure that your final oral examination committee has electronically reported the results in Seguidor **within 7 days** after completion of the examination.
7) Electronically submit your final thesis (as an accessible PDF.) to the DigitalCommons@UNMC
8) Obtain Verification by the Program Director and Supervisor certifying completion of program requirements (see additional details below).
9) After completing the above requirements, complete the online Checklist Before Graduation**.

**To complete the Checklist Before Graduation, you will need to complete all above steps. The Office of Graduate Studies will only accept the completed checklist and will not accept the requirements one at a time.

The student is solely responsible for ensuring that all of the tasks listed above are completed, including submission of the appropriate documents prior to the deadline established by the Graduate Studies Office.

TIMELINE FOR FINAL ORAL EXAM / THESIS DEFENSE

- **At least 4 months prior to degree completion:** Enroll in the Canvas ADA Compliance Course for Theses and Dissertations using this code: **https://mynu.instructure.com/enroll/MG34R6**. Use the template document provided so your thesis is structured to be compliant with ADA/Title II. Contact Graduate Studies if you encounter difficulty enrolling.
- **Prior to February 10th** (for May graduation), **June 10th** (for August graduation) **or October 10th** (for December graduation): Complete the degree application on MyRecords.
- Recommended: **Two-to-three months** in advance of the approximate date of the Final Oral Exam, the student should consult with his/her Advisor and Advisory Committee and establish the tentative (unofficial) date and time for the exam. It is also advisable at this point to reserve the rooms in which the public and closed-door components of the exam will be held. Note that the Final Oral Exam must occur at least 2 weeks prior to commencement (graduation).
- **At least 4 weeks before the Final Oral Exam (at least 6 weeks prior to commencement),** the thesis must be presented to the Advisor, who must determine if it is of sufficient merit (based on scientific criteria) and in a fit condition (based on formatting and writing quality) to warrant holding the Final Oral Exam. **The student is responsible for ensuring that the thesis is properly formatted and ADA/Title II compliant** (see Masters Thesis Requirements and Canvas ADA Compliance Course for Theses and Dissertations) and is free of errors in terminology, grammar and spelling. If the thesis includes published materials, it is recommended to request permission to include them in the thesis at this time (see Masters Thesis Requirements, page 2). The Advisor may provide feedback to aid the student in revising the document, if necessary. However, because the student is not eligible for the Final Oral Exam until the thesis is completed and approved by the Advisor, any revisions to the thesis required by the Advisor must be completed at least 2 weeks before the Final Oral Exam.
- **At least 2 weeks before the Final Oral Exam (at least 4 weeks prior to commencement):** The Advisor-approved thesis must be presented to members of the Advisory Committee With approval from the Advisor, the student must (via Seguidor™) establish the Examining Committee and officially schedule the Final Oral Exam. The Advisory Committee must agree to the date & time before this information is entered into Seguidor. The exam location must also be established at this time. **Advance planning is necessary because UNMC Graduate Studies policy prevents Seguidor from scheduling exams within 2 weeks of the desired exam date.** The exam may be scheduled more than 2 weeks in advance, but only if the Advisor has been given least 2 weeks to make a judgment regarding the condition of the thesis (see above).
    - All members of the Advisory Committee should serve on the Examining Committee, only members of the NU Graduate Faculty can serve as Graders (in Seguidor).
    - At least 1 Graduate Faculty members of the Advisory Committee must be present for the Final Oral Exam; otherwise, the exam must be rescheduled.
- **At least 2 weeks before commencement: Final Oral Exam.** After the exam, please obtain written verification from the advisor and program director that you have completed all degree requirements. Please see the instructions in the form at the end of this document.
- **No more than 7 days after the Final Oral Exam:** Results of the Final Oral Exam must be reported to the Graduate Studies Office (via Seguidor). It is recommended that the Examining Committee complete this task immediately following the exam (prior to leaving the exam room).
- **At least 7 days before commencement:** All required **graduation documentation** (see PROCEDURES AFTER THE FINAL ORAL EXAM) must be submitted to the Graduate Studies Office using the Checklist Before Graduation form, which includes **submission of the thesis** to the McGoogan Library for publication via the DigitalCommons@UNMC (Electronic Submission of the Thesis).

MASTERS THESIS REQUIREMENTS

This section includes detailed instructions regarding format, sample pages, etc. Instructions regarding the electronic submission of your thesis are included in the next section, "Additional Details of the Requirements".

A - General Requirements

The master's thesis is a written document required by universities for the completion of the Master of Science (M.S.) or Master of Arts (M.A.) degree. The purpose of the thesis at UNMC is to provide written documentation of the research achievements of the student, thereby supporting awarding of the M.S. degree by the University of Nebraska.

The thesis should be a complete and independent document that can be understood without reference to other materials. It should present original research on a defined problem – research for which the student has taken major responsibility. Therefore, the research should be primarily the student's work, although others may have contributed in a minor way. The thesis should reveal a capacity to carry on independent study or research and should demonstrate the student's ability to use the techniques employed in the field of investigation.

B – Americans With Disabilities Act/Title II Compliance

Because the master's thesis will eventually become publicly available via the DigitalCommons@UNMC, it must be Americans with Disabilities Act (ADA) compliant, which means it must be accessible to individuals with disabilities, including those who use assistive technology like screen readers.

General document structure for ADA compliance requires:

- Headings: Apply your word processor's built-in heading styles (Heading 1, Heading 2, Heading 3, etc.) to structure your document. This creates an accessible outline that screen readers can use to navigate the content. Do not use bold or larger font sizes alone to create headings.
- Logical heading order: Ensure the heading structure is logical and hierarchical, without skipping levels. For instance, do not jump from Heading 1 to Heading 3.
- Table of Contents: Create an automated Table of Contents based on your heading styles. This adds another layer of navigation for users with assistive technology.
- Proper lists: Format bulleted or numbered lists using the built-in list tools rather than creating them manually with hyphens or numbers. This allows screen readers to interpret the list correctly.
- Simple tables: Use tables only for presenting tabular data and utilize the table creation tool within Word, not a table pasted from Excel. Avoid complex layouts with merged or split cells. Specify header rows to clearly label columns and rows, and apply an alt text description summarizing the table.

A Word document template with these requirements as well as many of the required formatting, organization, and content requirements, is provided along with these instructions. It is available on the Canvas ADA Compliance Course for Theses and Dissertations

Visuals and multimedia:

- Alt text for images: Provide concise and descriptive alternative text ("alt text") for all images, charts, graphs, and other non-text content. This is a critical feature for users with visual impairments who rely on screen readers.

- Do not place important information in headers/footers because some screen readers do not read this content. Furthermore, for screen readers that read this content, improperly added text in headers and footers can disrupt the flow of content being read. For the thesis, page numbers are considered to be non-content artifacts. They are required to be placed in the header and should be the only item in the header. The template provided ensures that page numbers in headers are properly inserted so they do not interfere with screen readers. Those using a screen reader can navigate to the desired section of the document using the dynamic table of contents.
- Accessible charts and graphs: Do not rely on color alone to convey meaning in charts. Use patterns, textures, symbols, or labels to ensure data is understandable for readers with color vision deficiencies. Provide an alternate text presentation of the data.
- Multimedia captions and transcripts: If your thesis includes audio or video, you must provide closed captions and/or transcripts. This makes the content accessible to those with hearing or visual impairments.

Text and hyperlinks:

- Readable fonts: Choose a simple, accessible sans-serif font like Arial, Calibri, or Verdana. Avoid complex or decorative fonts, excessive italics, or underlining.
- Sufficient color contrast: Ensure all text has sufficient contrast against its background. A contrast ratio of at least 4.5:1 is recommended. Do not use color alone to convey information; use other cues like bolding or underlining.
- Meaningful hyperlink text: Use descriptive hyperlink text instead of generic phrases like "click here." The text should clearly indicate the link's destination.
- URLS (e.g. https://....) should not be exposed. Instead, highlight the relevant text and embed the URL by selecting the text and using the "Insert" > "Link" function or Crtl+K (Cmd+K on a mac) and paste the URL into the address field.
- When formatting citations, substitute the DOI URL with the doi: prefix followed only by the DOI number. For other URLs in citations, embed the URL in the source title. Review all citations produced by a citation manager like EndNote or Zotero as they may not format URLs accessibly.
    - Author, A. A., & Author, B. B. (Date of publication). Title of article. Title of Journal, volume number (issue number if available), page range. doi:0000000/000000000000
    - Author, A. A., & Author, B. B. (Date of publication). Title of article. *Title of Journal,* volume number(issue number if available), page range.
- Define acronyms: Always write out the full meaning of an acronym the first time it is used. For a screen reader, you can also use periods between the letters of an acronym (e.g., A.D.A.) to prevent it from being read as a word.

Checking accessibility

- Run an accessibility check frequently and fix issues as you identify them. This will prevent you from repeating errors that lead to accessibility issues and thus saves a tremendous amount of time. **Do not wait until the final version to check accessibility**.
- To access the Accessibility tools in Microsoft Word, follow these steps:
    - **For Word on Windows (Microsoft 365 or Word 2019+):**
        1. Open your Word document.
        2. Go to the "Review" tab on the Ribbon.

3. Click on "Check Accessibility" in the Accessibility group.
    - This opens the Accessibility Checker pane on the right.
    - It will list issues and suggestions to improve accessibility for people with disabilities.

- **For Word on Mac:**
    1. Open your Word document.
    2. Go to Tools → Check Accessibility.
    3. Or use Review → Check Accessibility, depending on your version.

- **To check or insert Alt text for images:**
    1. Right-click on an image
    2. Select "Edit Alt Text"
    3. Add a brief description of the visuals for screen readers, including only essential elements of the image.

Information about compliance related to math and code as well as for students using LaTeX rather than MS Word is also available in the Canvas ADA Compliance Course for Theses and Dissertations (**https://mynu.instructure.com/enroll/MG34R6**).

C - FORMAT

- Margin Settings: Left = **1.5**"; Right = 1"; Top = 1"; Bottom = 1"
    - Figures and tables must fit within the same margins as the text. If oversized figures or tables are included, they should have exactly the same margins as the text, or should be folded as needed to be contained within those margins.
- Fonts:
    - The same font must be used in **all** elements of the document – including all text, page numbers, headings, subheadings, tables, figure legends, etc.
    - The main text font size must be a minimum of 10 pt; however, 11 pt is recommended.
    - Recommended fonts for the main text: 11 pt Arial, 11 pt Helvetica, or 11 pt Calibri
    - Headings and subheadings may be in a larger font size and may be in bold print, but the font must be the same as the one used in the remainder of the document. Consistency is necessary. If a large type is used for one subheading, the same size must be used in all subheadings of the same level. If the major headings and subheadings have two different font sizes, the larger font must be used in the major headings.
- Line spacing: The document must be **double-spaced** (except figure legends, long headings/subheadings, and footnotes).
- Paragraph settings: Paragraphs should be preceded by a spacing of 6 pt and should begin with a Tab of 0.25" or 0.5" (do not indent the first line of a paragraph using the space bar). Paragraphs should be either left-aligned or justified (text aligned along both the left and right margins). Be sure to use the same paragraph settings for the entire body of the document. These paragraph setting constraints do not apply to headings and subheadings, which generally should be preceded by a spacing of 12 pt (or more) and may be either centered between the margins (major headings) or left-aligned (subheadings).
- Hyphenation should be employed to avoid unsightly gaps between words when using justified paragraphs (optional for left-aligned paragraphs). Words of fewer than 6 letters should not be divided by a hyphen at the end of a line. Divided words should not occur at the end of more than two consecutive lines or on the final line at the bottom of a page.

- Material contained in published manuscripts must be reformatted to thesis specifications. **Reprints of published material are not permitted in the thesis.** If you include material (text, figures, etc.) from previously published work, you must obtain permission from the publisher, and you will need to upload proof of the publisher's permission when submitting the thesis to the DigitalCommons@UNMC (see page 6). When re-using the copyrighted work of others, it is best practice to always save a copy of any permissions to your personal files.

  Note: Journals are routinely asked for permission to include published materials in student thesis. The process for obtaining such permission is usually included in the journal's Instructions for Authors. If the article has a Creative Commons license, permission does not need to be sought provided that the license terms are met. The terms include full attribution and inclusion of the license type. It is suggested that you use the TASL method for attribution.

- Footnotes should be single-spaced and should be placed at the bottom of the page to which they pertain unless special instructions are provided by the department/program.

- Page numbers must appear in the header at the top right of each page (except the Title Page and Abstract). The page number may be 9 or 10 pt font, with the Header Position set at 0.5" from the Top and aligned with the right margin. Be sure to use the same font as the main text. For pages before the Introduction, use small Roman numerals (i, ii, iii, iv, etc.). Beginning with the Introduction, number all pages through the remainder of the document using Arabic numbers (1, 2, 3, etc.) Steps for accomplishing this page numbering layout in Microsoft Word 2010:
  - To insert small Roman numeral page numbers for the initial portion of the document: With the cursor on the 2nd page of the document (not the title page), click on the Insert tab → Page Number → Top of Page → Choose the option showing the number positioned at right margin. In the Options section of the Design / Header & Footer Tools Tab, select Different First Page. Click on Page Number → Format Page Numbers → In the Number Format pulldown menu, select i, ii, iii, … In the same Format Page Numbers window, ensure that the Page numbering Starts at i. Click on OK.
  - To establish a different number format beginning with the Introduction: Position the cursor at the bottom of the page immediately before the Introduction. Click on the Page Layout Tab → Breaks → Section Breaks: Next Page. Then, click on the Insert Tab → Page Number → Top of Page → Choose the option showing the number positioned at the right margin. In the Options section of the Design / Header & Footer Tools Tab, unselect Different First Page and unselect Link to Previous. Click on Page Number → Format Page Numbers → In the Number Format pulldown menu, select 1, 2, 3, … In the same Format page Numbers window, ensure that the Page numbering starts at 1. Click on OK.
  - Unless you are very skilled with the section break and page numbering functions in your word processor, use a white shape (rectangle or circle; with no border) to obscure page numbers on the Title Page and Abstract pages.

- Figures and tables are generally presented one per page, although multi-panel figures are allowed. Each figure should be numbered consecutively and have a legend that begins with the title/caption ("Figure 1: Giant spiral galaxy" in the example below) and includes all of the information needed to interpret the figure. The legend may appear on the page preceding the figure, or on the same page as the figure, being sure to use the same approach throughout the document. Each figure (with its accompanying legend) should appear in the document in close proximity to, but not before, the first referral to the figure in the text. The figures and legends should not be clustered at the end of the Thesis. The student should consult with his/her Supervisor to determine the preferred format.



Figure 1: Giant spiral galaxy. This image taken with the Hubble Space Telescope Wide Field and Planetary Camera shows galaxy M101, which is estimated to contain at least 1 trillion

Useful tip: For ease of editing the document and correctly positioning the figures, do not insert figures and legends into the document until you have a complete draft of the entire thesis.

Some departments/programs may prefer that figures be integrated within the main body of text, similar to the appearance of journals or magazines (see example shown here). Useful tips for implementing this specific approach are provided below:

- Both the figure and its accompanying legend should be inserted within a single text box delineated by a thin black or grey line. (Do not simply draw a rectangle around the figure and its legend! Copy/paste the figure into a text box and type the legend within the same text box.) This will vastly facilitate editing of the document and the positioning of the figure and its legend on the page – you will only need to position the text box, because both the figure and the legend are contained within the text box.
- When using this approach, the figure legend may be 1- or 2-pt smaller font size than that used for the main body of text.
- For most relatively small figures (such as the example shown here), format the text box (right click → More Layout Options) as follows: Text Wrapping → Wrapping Style = Square; Position → Horizontal alignment = Right relative to Margin. Do not select the Move Object with Text option; otherwise, your text box will tend to "jump around" (move from page to page, or even disappear) as you edit the document!
- If the table or figure spans most of the width of the page within the confines of the margins, format the text box (right click → More Layout Options) as follows: Text Wrapping → Wrapping Style = Top and bottom; Position → Horizontal alignment = Center relative to Margin. Do not select the Move Object with Text option.
- Once you have inserted the figures, display and editing of the document is most efficient if you activate "show picture placeholders" (Microsoft Word 2010: Select Customize Quick Access Toolbar → More Commands → Advanced → under Show document content, select Show picture placeholders. To view the figures as they will appear in the document, unselect this option.)

Similar criteria (and useful tips) apply to the positioning of tables in the thesis document. For example, tables must be numbered consecutively (Table 1, Table 2, etc.), include legends with titles/captions, and may appear on a dedicated page or in boxes within the body of text. Regardless of the figure/table presentation mode chosen by the student, the legend for any previously published figure or table must include the appropriate literature citation.

D - ORGANIZATION & CONTENT

The thesis may contain some or all of the elements listed below. The elements contained in the document must appear in the order listed and be formatted as described. Each element should begin on a new page. **Required items are indicated by the checkmark (þ)**.

Title Page: Must be formatted and worded according to the sample attached (with some variation allowed for use of a larger font size for the title and the student's name). Do not number this page.

Acknowledgments: You may acknowledge those who assisted you during your graduate studies.

Abstract: The abstract is limited to 350 words, including the title, and must be typed in a format according to the sample attached. Do not number the pages of the abstract. Utilize the word count feature of a word-processing program to ensure that the abstract conforms to the 350-word limit.

Table of Contents: The Table of Contents (sample attached) should provide the reader with an analytical view of the materials covered by the study, together with the order of appearance in the document. All headings and subheadings listed in the Table of Contents must agree word-for-word with the headings/subheadings appearing in the body of the document.

Useful Tip: The student is advised to spend a few minutes up front learning how to have their word-processing program (e.g., Microsoft Word) automatically generate a Table of Contents – this will save hours in the long run.

List of Figures: If any illustrative or graphic materials are used, a List of Figures must be provided. The figure titles/captions included in the list must agree word-for-word with the titles/captions appearing in the body of the work. Page numbers must be those on which the legend appears.

Useful Tip: The List of Figures can be generated automatically in Microsoft Word (which refers to this as inserting a Table of Figures) based on captions (figure titles) that you have inserted into the document.

List of Tables: If any tables are included in the thesis, a List of Tables must be provided. Page numbers must be those on which the table appears. The List of Tables can be generated automatically in Microsoft Word through the same process used for generating a List of Figures.

List of Abbreviations: Define each abbreviation used in the document according to the sample attached.

Chapters: The body of the thesis is composed of Chapters that provide a complete presentation of the project in a systematic and organized manner. The Chapters should be numbered (1, 2, 3, etc.), with each Chapter bearing a title. Students should consult with their Advisors for guidance in organizing the Chapters and their content. While there is considerable flexibility in this regard (which may vary with the field of study), most master's theses at an academic medical center will contain the following Chapters:

- **Chapter 1: Introduction**. This Chapter should present a comprehensive and integrated presentation and critical analysis of the literature relating to the overall thesis topic. It should also frame the questions addressed by the thesis.
- **Chapter 2: Methods**. This Chapter should include a description of the procedures utilized in the research in sufficient detail to indicate that the student has a thorough understanding of the techniques used to answer the question and to permit others to replicate the work.
- **Chapter 3: Results**. This Chapter should be a complete presentation of the research findings in a logical and clear fashion.
- **Chapter 4: Discussion.** This Chapter should address the results in terms of their importance, their limitations, their place in our current knowledge, the conclusions drawn based on the results, and the future directions or implications suggested by the results.

Published work. If some or all of the student's work has been published, the findings may be rewritten/reformatted and presented the above Chapters, provided that you have received permission from the publisher. Work performed by others in the publications must be cited in the Acknowledgement section of the thesis.

Bibliography: This section must provide a complete listing of all literature cited in the thesis. The student is strongly advised to utilize citation/bibliography software (e.g., EndNote or Zotero) for incorporating literature citations into the thesis and preparing the bibliography. The style of in-text citations should be chosen based on consultation with the Advisor. Each citation should list all authors (within reason; limit to 20 for reports of large clinical trials, for example), full title of the paper, journal name (standard abbreviations used by PubMed are acceptable), volume, range of pages (not simply the 1st page), and the publication year. The list may be arranged by order of citation or alphabetically by author, at the discretion of the student and his/her Advisor.

Useful Tip: Do not waste time creating your own bibliography citation format within your reference citation software; rather, select one of the options provided by the software. There will be hundreds among which to choose.

Appendices: May include surveys, ancillary observations, detailed protocols developed for specific procedures, recipes for key reagents, etc. If there is more than one appendix, number them A-to-Z, and include a title for each appendix (e.g., APPENDIX A: PATIENT CONSENT FORM).

UNMC MASTER'S DEGREE PROGRAM NAMES (for use on title page)

Official names of UNMC Master's programs with a thesis-option, as approved by the Board of Regents:

- Biochemistry & Molecular Biology Graduate Program
- Cancer Research Graduate Program
- Immunology, Pathology & Infectious Disease Graduate Program
- Medical Anatomy Graduate Program
- Medical Sciences Interdepartmental Area Graduate Program
- Molecular Genetics & Cell Biology Graduate Program
- Pharmaceutical Sciences Graduate Program

Specializations (MSIA Only):

- Biological Defense & Health Security
- Clinical & Translational Research Mentored Scholars Program
- Clinically Relevant Basic Research
- Health Practice & Medical Education Research
- Oral Biology
- Patient-Oriented Research

Sample TITLE PAGE

1″

Do not number the title page!

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SEROTYPIC AND GENOTYPIC DIVERSITY OF GROUP A BOVINE ROTAVIRUSES

Margins
(shown for illustrative purposes only)

by

Wei Lu

A THESIS

Presented to the Faculty of
the University of Nebraska Graduate College
in Partial Fulfillment of the Requirements
for the Degree of Master of Science

Molecular Genetics and Cell Biology Graduate Program

Official name of your graduate program, single-spaced.

MSIA graduates only: Specialization should be indicated, enclosed within parentheses.

(Specialization)

Under the Supervision of Professor Gerald E. Duhamel

Do not include professorial rank (Associate or Assistant) or degree.
If you have co-advisors, use Professors rather than listing the title separately for each.

University of Nebraska Medical Center
Omaha, Nebraska

Either the month and year of the final oral examination, or the month and year of graduation.

April, 2025

Advisory Committee:

Laura D. Brown, Ph.D.
Neil Armstrong, Ph.D.
John P. Jones, M.D.
Robert W. Johnson, Ph.D.

1″

Sample ABSTRACT

1″

Do not number the pages of the abstract

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EVALUATION OF NUTRITIONAL METHODOLOGY AND EXPERIMENT

IN THE STUDY OF RIBOFLAVIN DEFICIENCY:

ASSESSMENT OF PHYSICAL AND BIOCHEMICAL LESIONS

Larry H. Gerthoff, M.S.

The abbreviation "M.S." must follow your name on the abstract only.

University of Nebraska, 2013

Supervisor: Myron A. Mehlman, Ph.D.

This must be the year of your graduation.

The adequacy of some components of conve[illegible]oyed in the study of riboflavin deficiency was questioned. This thesis attempted to evaluate how several important changes in the experimental design affected the response of the albino rat to riboflavin deficiency. This was accomplished by analysis of a large variety of criteria including classical physical lesions and lesions in biochemical parameters associated with gluconeogenesis. The effect of the following experimental variables on the development…

1″

Sample TABLE OF CONTENTS

1″

Page on which each heading & subheading appears (including Appendices)

←1.5″→

←1″→

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SECTION HEADING 3
SECTION HEADING 3
Subsection heading 3
Subsection heading 3

Use different indentations to indicate various subheading levels

1″

Sample LIST OF ABBREVIATIONS

LIST OF ABBREVIATIONS

4-AP	4-aminopyridine
AngII	angiotensin II
$[Ca^{2+}]_i$	intracellular free calcium ion concentration
CMH	1-hydroxy-3-methoxycarbonyl-2,2,5,5-tetramethylpyrrolidine
DCFH-DA	2',7'-dichlorodihydrofluorescein diacetate
DETC	sodium diethyldithiocarbamate trihydrate
DFX	deferoxamine
DHE	dihydroethidium
DM	diabetes mellitus
DMTU	dimethylthiourea
DNase	deoxyribonuclease
E_K	potassium equilibrium potential
ESRD	end-stage renal disease
FCS	fetal calf serum
GFR	glomerular filtration rate
GIRK	G protein-regulated inward rectifier potassium channel
GLUT4	glucose transporter (type 4)
HbA_{1c}	glycated hemoglobin
H_2O_2	hydrogen peroxide
HEPES	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid
HOCl	hypochlorous acid
JGA	juxtaglomerular apparatus
K_{ATP} channel	ATP-sensitive potassium channel

ADDITIONAL DETAILS OF THE REQUIREMENTS LISTED ON PAGE 1

This section includes instructions regarding the electronic submission of your thesis as well as other requirements for graduation.

Convocation & Accomplishments Survey, https://forms.office.com.mcas.ms/r/2USCJNEqZN?McasTsid=27548&McasCtx=4 . You will find it useful to have your CV handy when completing this survey.

> The information collected via this survey provides Graduate Studies with data needed for program evaluation, accreditation and other reports. It will also facilitate the celebration of your accomplishments at the Graduate Studies Convocation Ceremony and allow us to contact you in the future.

Graduate Program Effectiveness and Student Satisfaction Survey, https://forms.office.com.mcas.ms/r/C3GwjYGGH2?McasTsid=27548&McasCtx=4.

> The information collected via this survey will help Graduate Studies improve the educational experience for future students. Please be thoughtful and truthful in completing this survey, and be reassured that the results are completely anonymous.

Proof of MS Word document accessibility check confirming "No Issues" for the final version of the thesis before submission to the McGoogan Health Sciences Library for deposition into the UNMC electronic repository. It will not be viewable to the public. This proof should be a time- and date-stamped screenshot of the final accessibility check. The accessibility check will not be viewable to the public.

Verification from the Program Director and Supervisor that you have completed the program requirements.

> To do so, you will need a copy of an email chain (print to PDF) with both the Program Director and Supervisor responding "I agree" to the following statement: "I verify that [*student name*] has completed all requirements in the [*program name*] for graduation under the supervision of *[mentor name*]". Alternatively, you can use the physical form to gather signatures (a template is provided on the last page of these instructions).

ELECTRONIC SUBMISSION OF THE THESIS

After making any revisions requested by your Supervisory Committee and complete a final accessibility check in MS Word. After you have addressed all remaining accessibility issues, you must save the thesis as an accessible PDF.

- **For Word on Windows (Microsoft 365 or Word 2019+):**
  1. Add a document
  2. Select File > Save As or File > Save a Copy.
  3. Do one of the following:
     - To save the PDF to the same location as the original file, expand the file type dropdown list under the file name, select PDF (*.pdf), and then select More options....The Save As dialog box opens.
     - To browse for a save location, select Browse. The Save As dialog box opens. Navigate to the location where you want to save the file, and then select PDF in the Save as type list.
  4. In the Save As dialog box, select Options.

- **For Word on Mac**
  1. Add a document title via File > Properties > Summary.
  2. Export to PDF:
  3. Go to File > Save As....
  4. In the dialog box, choose PDF from the "File Format" dropdown.
  5. Select the radio button for "Best for electronic distribution and accessibility" (or check "Document structure tags for accessibility" if available).
  6. Click Export or Save.

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1. Read and accept the Submission Agreement (provided online at the beginning of the process)
2. Provide information about yourself and any co-authors
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   - the MS Word accessibility confirmation screen shot
   - the final MS Word version of the thesis.
   - Any audio, video, animations, simulations, etc.

   To hide these items from the public, uncheck the items and click Save in the Additional Files section before submitting.
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