



THESIS WRITER'S WORKSHOP

Suzanne Beach

Office of Graduate Studies

Ye Li

Arthur Lakes Library



What we will cover

- Deadlines / Registration
- Electronic Thesis & Dissertation (ETD)
- ETD Resources
- ProQuest Account
- Formatting







DEADLINES



Thesis Defense

- Students must be registered the semester of defense and checkout
 - · If you defend and check-out in different semesters, then you need to register for both semesters.
- Students should defend at least one week prior to thesis upload
 - Most students have content revisions to make before approval
 - \cdot Content must be approved before you upload
- OGS does not make deadline exceptions
 - If you cannot meet the deadline, you will need to delay graduation and you may need to register again
 - Thesis based students who have not met the graduation deadlines will not be allowed to walk in the graduation ceremony



Thesis Defense

- Defense Options if your entire committee cannot attend the defense
 - Skype
 - Teleconference
 - Proxy
 - The committee member who cannot attend selects another member, preferably your advisor to act as a proxy
 - The committee member reviews your thesis beforehand and submits questions for the proxy to ask at your defense
 - The proxy will ask the questions and vote on behalf of the missing committee member.



Thesis Deadlines

http://inside.mines.edu/GS-Graduation-Information-and-Deadlines

Thesis Upload Deadlines

- December 2017 graduation
 - · Standard Check-out (must register for fall)
 - PhDs: November 13, 2017
 - MS: November 20, 2017
- Spring 2018 graduation
 - · Early Check-out (must have registered for fall, but do not need to register for spring)
 - January 17, 2018
 - · Standard Check-out (must register for spring)
 - PhDs: April 9, 2018
 - MS: April 16, 2018
- All upload deadlines require students to submit signed submittal page to OGS by 5:00pm and upload into ProQuest by midnight.



Thesis Deadlines

	S Mines.edu Alert Daily Blast Learning Mail Trailhead Plap	Search Submit
Academic Depts	Home » Admin Depts »	
Admin Depts		
Academic Affairs Administration and Operations	Graduate School	Office of Graduate Studies
Admissions	QUICK REFERENCE GUIDE CONTACT GRADUATE OFFICE LETTER FROM THE DEAN	Student Center – Suite E140 1200 16th St.
Alumni Association Career Center CASA	CARE AT MINES SpeakUP@Mines TITLE IX AT MINES	Golden, CO 80401 303-273-3247 800-446-9488
CASA Disability Support Services Emergency Management	Welcome to the Office of Graduate Studies!	OPEN M-F 8 am - 5 pm
Financial Aid Graduate School	We are committed to your success as a graduate student! As you pursue your educational goals, our number one priority is to provide you quality service throughout your graduate journey, from application to graduation. Please contact	<u>Contact Graduate Office</u> Academic Calendars
Quick Reference Guide	us with any questions you may have about the admission process, institutional policies and procedures, and steps needed to successfully complete your degree.	Admissions Deadlines
Calendars & Deadlines Graduate Assistantship Policies	Graduate Office	Admissions Information
Graduate Contracts Graduate Student Government	Student Center – Suite E140 303–273–3247	Graduation Deadlines Graduation Information
Graduate Office Staff	Graduate Office Hours	
Forms Office of the President	The Office of Graduate Studies is open for walk-in consultations during the following hours:	Parent & Guest Information SPRING 2017 GRADUATION
Public Safety Registrar's Office	Monday through Friday: 8 am to 5 pm	CEREMONY LIVE STREAM

Deadlines

Committee and Thesis/Dissertation Information

COMMITTEE INFORMATION	STEP-BY-STEP THESIS GUIDE	THESIS WRITERS GUIDE
THESIS FORMATTING HELP	THESIS UPLOAD	

Graduation Information

\langle	DEADLINES	APPLY TO GRADUATE	WALKING IN GRADUATION
	DEGREE EVALUATION	CHECKOUT REQUIREMENTS	REGALIA
	COMMENCEMENT PRACTICE	COMMENCEMENT HANDBOOK	CEREMONY
	LETTER OF COMPLETION	AWARDING DEGREES	TRANSCRIPT / DIPLOMA

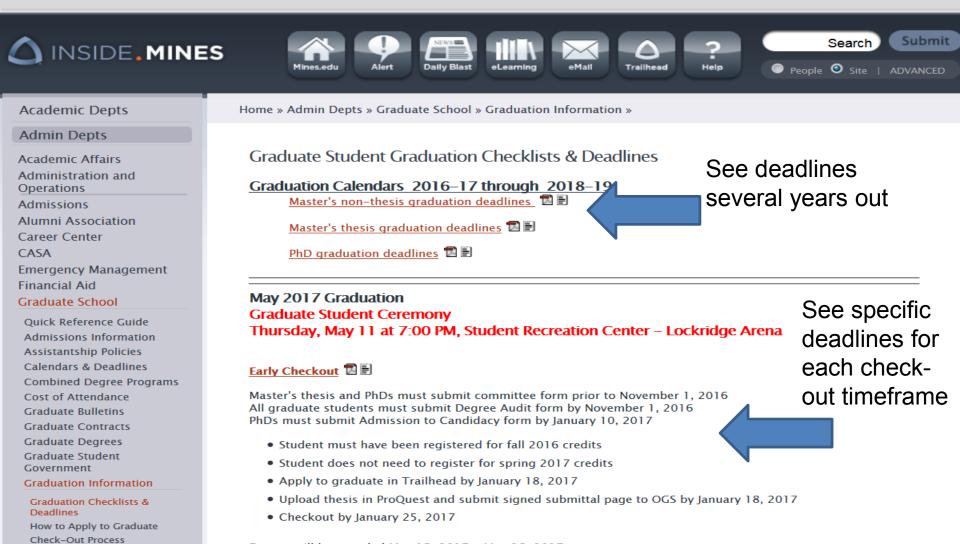
Forms

FORMS

Thesis Deadlines

Commencement Preparation

Commencement Practice Commencement Ceremony



Degree will be awarded May 15, 2017 - May 26, 2017 Student may walk in May graduation ceremony

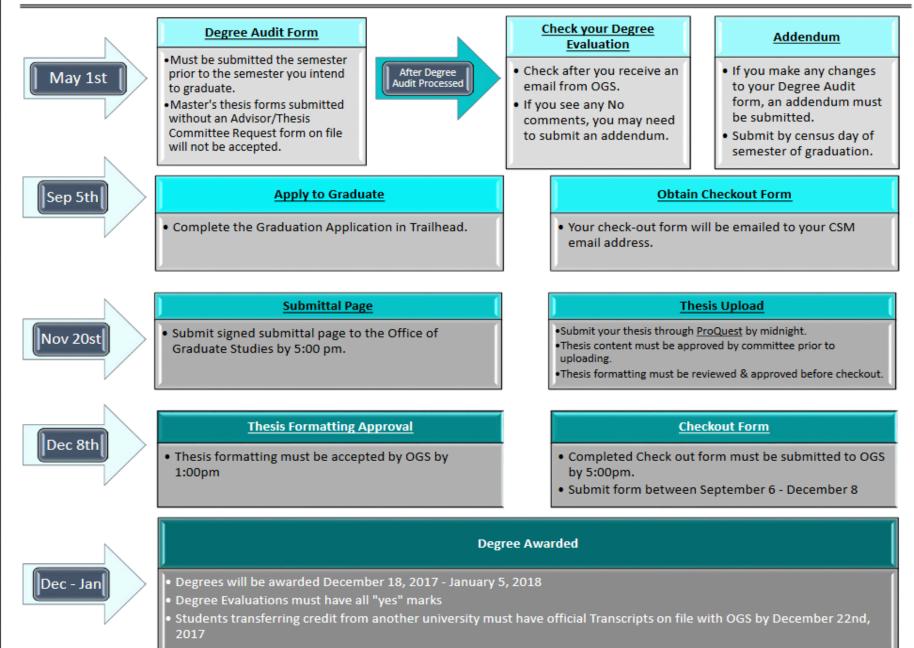
Standard Checkout checklist & deadlines

PHD - GRADUATION DEADLINES

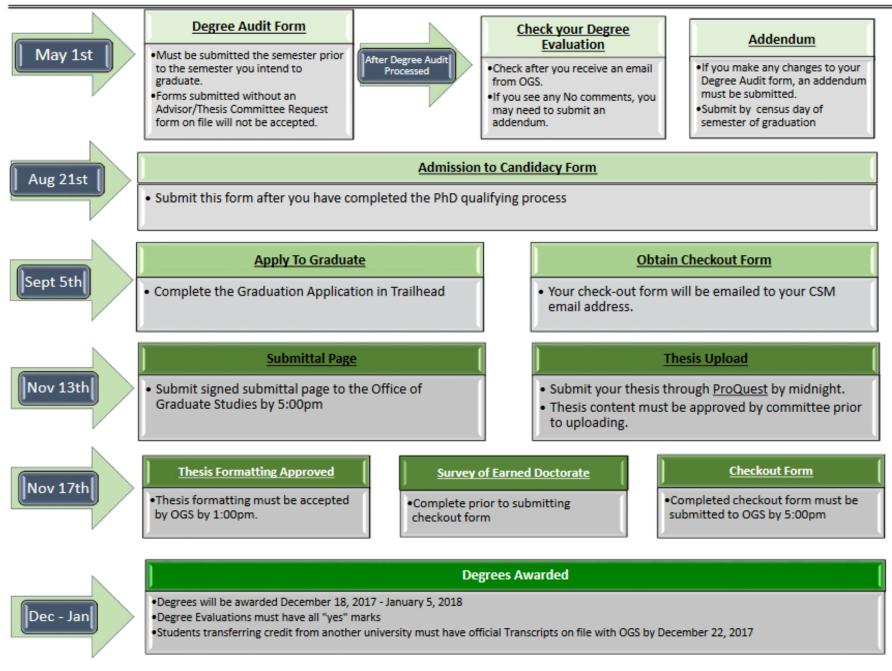
Must be registered for at least 1 credit during the semester of the defense, upload and checkout.

	Academic Year	2017-2018	2018-2019
	August Early Checkout :	Spring registration required Summer registration not requi	ired
	Degree Audit form	March 1, 2017	March 1, 2018
Α	Admission to Candidacy form	March 1, 2017	March 1, 2018
\mathbf{U}	Apply to Graduate in Trailhead	April 15, 2017	April 15, 2018
U	Thesis Upload & Submittal Page	May 15, 2017	May 14, 2018
G	Checkout form***	May 19, 2017	May 18, 2018
\mathbf{U}	August Standard Checkout :	Summer registration required Fall registration not required	
S	Degree Audit form	March 1, 2017	March 1, 2018
Т	Admission to Candidacy form	May 8, 2017	May 8, 2018
-	Apply to Graduate in Trailhead	April 15, 2017	April 15, 2018
	Thesis Upload & Submittal Page	July 24, 2017	July 25, 2018
	Checkout form***	August 1, 2017	August 1, 2018
D	December Early Checkout :	Summer registration required Fall registration not required	
D	Degree Audit form	May 1, 2017	May 1, 2018
E C	Admission to Candidacy form	August 21, 2017	August 20, 2018
С	Apply to Graduate in Trailhead	August 29, 2017	August 28, 2018
-	Thesis Upload & Submittal Page	August 29, 2017	August 28, 2018
E	Checkout form***	September 5, 2017	September 4, 2018
M	December Standard Checkout :	Fall registration required	
B	Degree Audit form	May 1, 2017	May 1, 2018
Е	Admission to Candidacy form	August 21, 2017	August 20, 2018
	Apply to Graduate in Trailhead	September 5, 2017	September 4, 2018
R	Thesis Upload & Submittal Page	November 13, 2017	November 12, 2018
	Checkout form***	November 17, 2017	November 16, 2018

December 2017 Standard Checkout Dates-Master's Thesis



December 2017 Standard Checkout Dates-PHD's







ELECTRONIC THESIS & DISSERTATION (ETD)



What is an ETD?

- Electronic Thesis / Dissertation
 - Electronic submission
 - Electronic format review
 - Electronic acceptance
 - Electronic publication
- The Office of Graduate Studies (OGS) does not require hard copies of your thesis.



ETD Advantages

- Increased access to research
- Additional visibility for students and universities
- ETDs available through
 - Mines Theses and Dissertations
 - Mines Institutional Repository Mines Theses & Dissertations <u>dspace.library.colostate.edu/handle/11124/20028</u> (Open Access)
 - Search for Mines theses via new Library Catalog Theses view
 - ProQuest Dissertations and Theses @ Colorado School of Mines (Subscription based)
 - Theses and Dissertations from other institutions
 - · ProQuest Dissertations and Theses Global: The Sciences and Engineering Collection (Subscription based)
 - Find more: libguides.mines.edu/theses
- Lower cost
- Greener option

↑ DCC Home / Colorado School of Mines / Mines Theses & Dissertations

Mines Theses & Dissertations

Arthur Lakes Library / Library Guides / Find Dissertations & Theses Find Dissertations & Theses: CSM A guick guide to finding a thesis or dissertation.

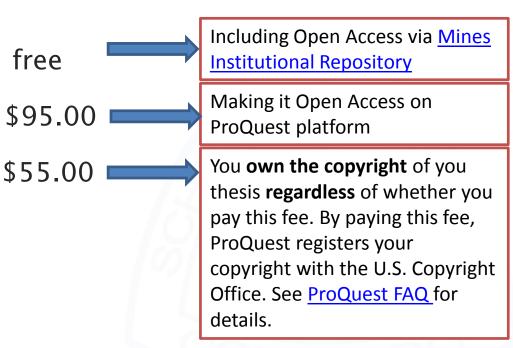


ProQuest

Cost

<u>You Choose</u>

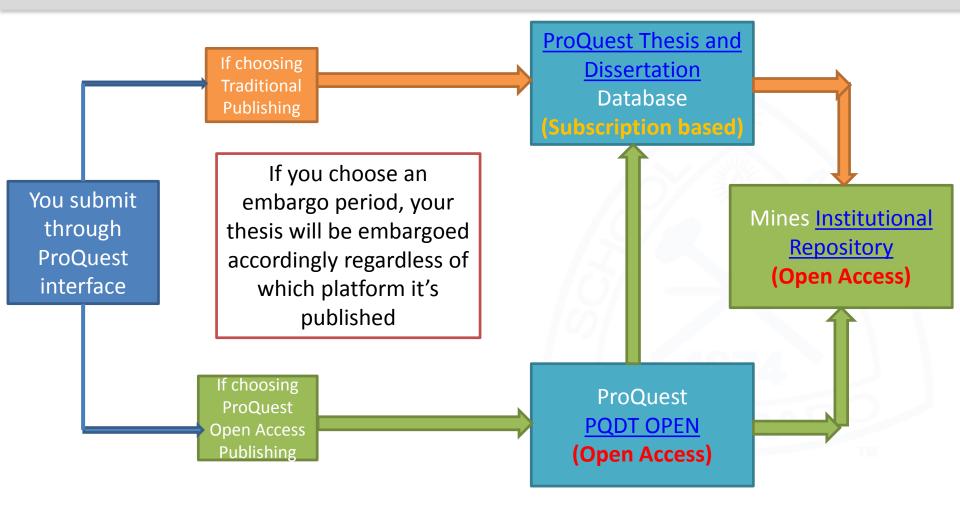
- Traditional Publishing
- Open Access Publishing
- Copyright



See the ProQuest <u>Traditional Publishing Agreement</u> and the <u>Open Access Publishing Agreement</u>. Links can be found on Mines Thesis & Dissertation website.



What happens after your submission...





Thesis Hard Copy Distribution

- 1. Department copy
- 2. Student copy
- No cost to you
- Ensure that <u>your department</u> has your most current mailing address, because they will mail your thesis to you.
- If you do not receive a copy of your thesis, please contact your department.
- If you order extra copies, you must pay and contact ProQuest for delivery information.









ETD RESOURCES



INSIDE MINES



eLearning

Help Trailhead

People Site | ADVANCED

Search

Submit

Academic Depts

Admin Depts

Academic Affairs

Administration and

Operations

Admissions

Alumni Association

Career Center

CASA

Disability Support Services

Emergency Management

Financial Aid

Graduate School

Quick Reference Guide

Catalog

Calendars & Deadlines

Graduate Assistantship

Policies

Graduate Contracts

Graduate Student

Government

Graduate Office Staff

Forms

Office of the President Public Safety **Registrar's Office**

QUICK REFERENCE GUIDE	CONTACT GRADUATE OFFICE	LETTER FROM THE DEAN	
CARE AT MINES	SpeakUP@Mines	TITLE IX AT MINES	

Welcome to the Office of Graduate Studies!

We are committed to your success as a graduate student! As you pursue your educational goals, our number one priority is to provide you quality service throughout your graduate journey, from application to graduation. Please contact us with any questions you may have about the admission process, institutional policies and procedures, and steps needed to successfully complete your degree.

Graduate Office

Home » Admin Depts »

Graduate School

Student Center - Suite E140 303-273-3247

Graduate Office Hours

The Office of Graduate Studies is open for walk-in consultations during the following hours:

Monday through Friday: 8 am to 5 pm

Office of Graduate Studies Student Center - Suite E140 1200 16th St. Golden, CO 80401 303-273-3247 800-446-9488 OPEN M-F 8 am - 5 pm Contact Graduate Office Academic Calendars Admissions Deadlines Admissions Information Graduation Deadlines Graduation Information Parent & Guest Information SPRING 2017 GRADUATION CEREMONY LIVE STREAM

Academic Depts

Admin Depts

Academic Affairs

Administration and

Operations

Admissions

Alumni Association

Career Center

CASA

Disability Support Services Emergency Management Financial Aid

Graduate School

Quick Reference Guide Catalog Calendars & Deadlines Graduate Assistantship Policies Graduate Contracts Graduate Student Government Graduate Office Staff

Forms

Home » Admin Depts » Graduate School »

Quick Reference Guide - Admissions, Policies, and Forms

	GRADUATE SCHOOL	CONTACT GRADUATE OFFICE	GRAD STUDENT GOVT
	CARE AT MINES	SpeakUP@Mines	TITLE IX AT MINES
		SCROLL DOWN	
	¥	+	
	Degree Requireme	nts	
	GENERAL REQUIREMENTS	MINORS	TRANSFER CREDIT
	DEGREE AUDIT FORM	DEGREE AUDIT DONT'S	RESEARCH CONDUCT (RCR)
	DEGREE AUDIT FORM	DEGREE AUDIT DONT'S	RESEARCH CONDUCT (RCR)
		DEGREE AUDIT DONT'S	RESEARCH CONDUCT (RCR)
		DEGREE AUDIT DONT'S	RESEARCH CONDUCT (RCR)
<	ADMISSION TO CANDIDACY	DEGREE AUDIT DONT'S	
<	ADMISSION TO CANDIDACY		
<	ADMISSION TO CANDIDACY	esis/Dissertation In	
<	ADMISSION TO CANDIDACY	esis/Dissertation In	formation

ELECTRONIC THESES & DISSERTATIONS (ETD)

Follow Step-by Step Guide Write your Thesis/ Dissertation	Make sure you: •Have submitted all the <u>required forms</u> •Look at the Graduation <u>Calendars and Deadlines</u> to make sure you understand when everything is due. •Have <u>Applied to Graduate in Trailhead</u> by the deadline. For formatting rules refer to: • <u>Thesis Writer's Guide</u>
	• <u>Sample Thesis</u> •The <u>Writing Center</u> offers assistance with writing and formatting •Student Services staff with the <u>Office of Graduate Studies</u> can answer formatting questions & review your thesis
Submit your Thesis Defense Request Form	Submit the form to your department • See your department for deadlines • OGS recommends that you defend at least 1 week prior to the upload deadline to allow time to make all the departmental corrections.
Defend your Thesis/ Dissertation	 Defend at least one week prior to the upload deadline. Please plan enough time to make all content revisions. All students must be registered to defend, unless checking out early (see <u>Graduate Bulletin</u>) OGS forms to bring to defense: ^a<u>Submittal Page</u>-signed by advisor, co-advisor (if applicable) and department head -Submittal Page cannot be signed until all content revisions are complete. ^aCheckout Card (includes your Statement of Work Completion) -signed by entire committee & department head. OGS prints checkout cards after students have <u>applied to graduate in Trailhead</u>.
Make Corrections on Thesis/ Dissertation	•Content corrections must be approved by committee before uploading thesis/ dissertation in ProQuest. •After all corrections have been approved by your advisor/committee, obtain the signatures on the <u>Submittal Page</u> . •Refer to the <u>Checklists & Deadlines</u> chart for upload and check-out deadlines
Submit Signed Submittal Page	Submit to <u>Office of Graduate Studies (OGS)</u> •Student Center Room E140 •Submit by 5:00 p.m. on day of upload deadline. <i>Failure to submit your signed submittal page by 5:00 pm on the</i> day of the upload deadline means that you have missed the deadline.

<u>Create an Account</u> with ProQuest	It may take about an hour to create an account and upload. Please create only one account. [°] If you need to upload supplemental files, make sure to allow sufficient time to upload all the files. •Review the ProQuest guide <u>Preparing your Manuscript for Submission</u> (including supplemental files)
	 Prepare Abstract Identify other thesis and degree data including your <u>subject category</u> Decide on publishing option <u>ProQuest/UMI Traditional Publishing Agreement</u> <u>ProQuest/UMI Open Access Publishing Agreement</u> Decide on <u>delay agreement (embargos)</u> 6 months or 1 year (No exceptions made for longer delays) Enter non-CSM email address Confirm accurate spelling of department, advisor and committee members Determine if you want to pay for copyright protection or need copyright permissions Make sure you have followed the <u>Thesis Writer's Guide</u>. Decide if you want to purchase an extra copy of your bound thesis ^oYou will receive 1 free copy. Contact your department for delivery guidelines.
Upload in ProQuest	Upload your thesis/ dissertation in ProQuest • Upload by midnight on day of deadline
Formatting Revisions/ Approval	OGS will review your formatting within approximately 48 hours of upload (Monday-Friday) • Check email daily (or more) to check for necessary revisions. Make sure to check the personal email you entered in ProQuest •Correct all necessary revisions promptly (corrections are not optional) ° Revision emails will be sent from a ProQuest email address °Follow directions in email to submit revisions °All students who upload by the deadline will be guaranteed 2 format reviews. -In the event a student does not make the necessary revisions and requires OGS to review the thesis a 3 rd or 4 th time, the student may not have the thesis approved by the check-out deadline. -If the thesis is not approved by the check-out deadline, the student will not be able to check-out. •Once formatting has been approved, you will get an email from ProQuest & you may check-out •Formatting is not approved by check-out deadline °If formatting is not approved by deadline, then: - Graduation will be delayed and/or - You will need to register for the next semester
Check-Out to Graduate	Submit all forms to OGS by 5:00 pm on day of <u>check-out deadline</u> ; •Completed Check out Card, which includes your Statement of Work Completion form • <u>Survey of Earned Doctorate</u> (PhDs only)-online

Thesis Writer's Guide

The Colorado School of Mines Office of Graduate Studies (OGS) publishes this guide for graduate students in all departments who must prepare a masters thesis or doctor of philosophy dissertation as part of the requirements for a CSM graduate degree. In this guide, the word "thesis" refers to both the thesis and the dissertation, unless otherwise noted.

GRADUATION REQUIREMENTS

Step-by-Step Guide

Calendars and Deadlines

Graduation Checklists and Deadlines

THESIS WRITER'S WORKSHOP

Thursday, September 29, 2016 10 am to 12 pm Student Center Ballrooms D

Thesis Writer's Workshop PowerPoint Presentations

THESIS PREPARATORY MATERIALS

Before Writing Your Thesis

<u>Graduate Student Government resources</u> including <u>Latex</u> <u>template</u>

Writing Center

Embargoes and Proprietary Research

Using Student Models

<u>ProQuest Information and FAQs</u> (includes contact information)

FORMATTING INFORMATION, EXAMPLES and ASSISTANCE

Thesis Checklist

Sample Thesis 🗃 🖹

How to Format Page Numbers 🗃 🖹

How to Format Page Orientation 🔞 🖹

Formatting Assistance including contact information for the Writing Center and the Office of Graduate Studies

FORMAT REQUIREMENTS

Fonts

How to Embed Fonts (required for printing)

Page Numbering

Margins

Line Spacing and Indenting

Text Alignment

<u>Titles</u>

White Space

Thesis Length and File Size

Copyright Permissions



THESIS COMPONENTS

Page Sequence

FRONT MATTER

<u>Title Page</u>

Copyright Page

<u>Submittal Page</u> 🖥 🖹

<u>Abstract</u>

Table of Contents and Lists

Acknowledgments

Dedication

BODY of the THESIS

Thesis Text

<u>Headings</u>

Chapter Page-Double Numbering System

Chapter Page-Three Level System 🖬 🖹

Journal Paper Format 🖬 🖹

Figures and Tables

Numbers and Equations

References

Appendices

Supplemental Electronic Files



Thesis Checklist

Upon completing your thesis/dissertation, compare the following Checklist against a final copy of your manuscript. When all items in your manuscript conform to those specified on this Checklist, provide the signed <u>Submittal Page</u> (page ii of your thesis/dissertation) to the Office of Graduate Studies (OGS) and electronically submit your thesis to <u>ProQuest</u>.

Format review of your manuscript will not commence prior to receipt of a signed Submittal Page in the OGS.

Sample Thesis 🗊 🗄



FORMATTING REQUIRMENTS

____ <u>Fonts</u>

Style: Times New Roman, Arial or Helvetica Size: 10–12 point type Same font size and style used consistently throughout thesis Black font No handwritten symbols in text or equations

____ Page Numbering

Pages are centered, 3/4 inch from the bottom of the page Front Matter: lower case Roman numerals (i, ii, iii, etc) Body of Thesis: Arabic numerals (1, 2, 3, etc) -Chapter one begins as page 1

Margins

1" from all edges Text, figures, tables, equations, etc may not go beyond the 1" margin

Line Spacing and Indenting

1½ or double line spacing in front matter 1½ or double line spacing in all text in paragraphs Be consistent: if you use double spacing in the front matter, use double spacing in the main body text Exceptions:

-Figure and Table captions are single spaced

-Multi-line entries in the Table of Contents, Lists and References are single spaced. Use appropriate spacing between the text of paragraph and the Figure/Table captions to differentiate. Indent at the beginning of each paragraph

____ Text Alignment

Left margin is justified Right margin is not justified

<u>Titles</u> (Title Page, Table of Contents, List of Figure/Tables, chapters, References, etc) Centered on page All capital letters Inverted pyramid

White Space

Text must extend to the bottom of the page Figures/Tables do not need to directly follow the text referring to the figure/table. -If a figure/table won't fit:

- -Refer the reader to the page where the figure/table can be found
- -And move the next section of text up to the page with the white space.
- White space is only allowed:
 - -At the end of a chapter
 - -When a figure/table fills more than 50% of the page and no other text is added to the page
 - -If the next 2 lines of a paragraph won't fit at the bottom of the page
 - -If the next subheading + 2 lines of text won't fit at the bottom of the page

_ Thesis Length and File Size

No upper page limit No file size restriction or

____ Copyright Permissions – Required if:

Article has been published -Co-author permission -Publisher permission Article has been accepted for publication -Publisher permission -Co-author permission

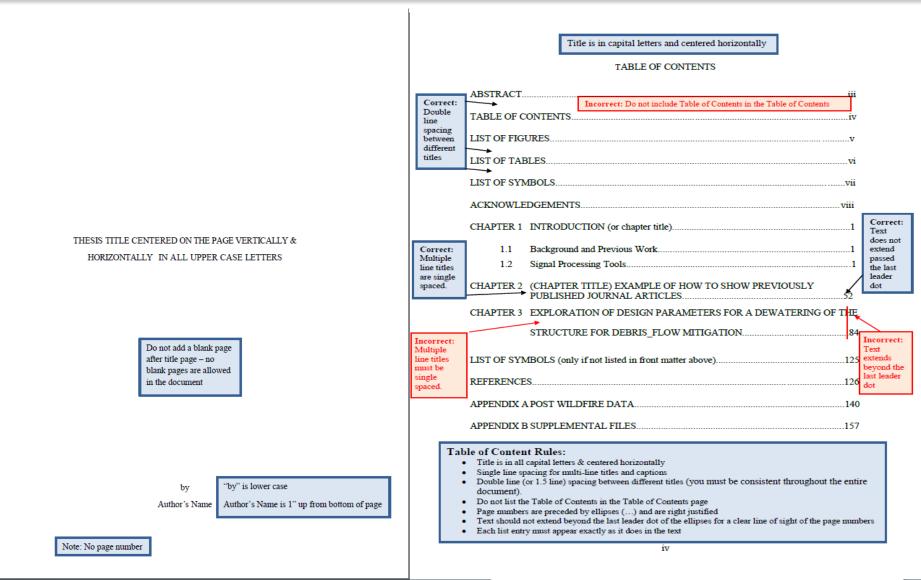
Article has been submitted, but no yet accepted/rejected by journal -Co-author permission

Future publication, but not yet submitted -No permission needed

There is not a Copyright permission form Permissions may be in the form of an email Add permissions at the end of the thesis or upload in ProQuest



Sample Thesis



Copyrights

- Students own the copyright to their thesis.
- If you choose to register your thesis with the US Copyright Office:
 - You may pay ProQuest to register your thesis.
 - For more information: <u>https://inside.mines.edu/Copyright</u> and <u>ProQuest FAQ</u>
- If you choose to copyright your thesis, the copyright page is the second page (not numbered) following the title page. Submittal page is still numbered "ii".



Copyright Permissions

You do not need to receive permission from committee members.

To reuse any material, you do need to receive permission from:

- 1. Article (including text, figures, tables) already published
 - · Publisher permission
 - \cdot Co-author permission
- Article (including text, figures, tables) accepted for publication
 - · Publisher permission
 - · Co-author permission
- 3. Article (including text, figures, tables) submitted but not yet accepted/rejected
 - \cdot Co-author permission
 - $\cdot\,$ Cite your thesis in future revisions
- 4. Future article submission
 - No permissions required but check the guidelines in the journal which you planned to publish in for any restrictions prior to publishing



Copyright Permissions Cont.

- Emails granting copyright permission are acceptable.
- Many publishers have links to request (mostly free) permission for reuse in thesis via Copyright Clearance Center.
- Upload copyright permissions into ProQuest or add the emails to the end of your thesis/dissertation.

Always credit the original publication properly as directed in the permissions.







PROQUEST ACCOUNT



Create an account with ProQuest

- ProQuest is the service CSM uses for ETDs
- https://secure.etdadmin.com/cgibin/school?siteId=316
- It may take about an hour to create the account with ProQuest, so make sure to give yourself plenty of time.
 - You may begin creating your account before you are ready to upload. Just make sure to remember your log-in information.





Home Training and Support Resources & Guidelines Submitting Your Dissertation/Thesis

esis About ETD Administrator

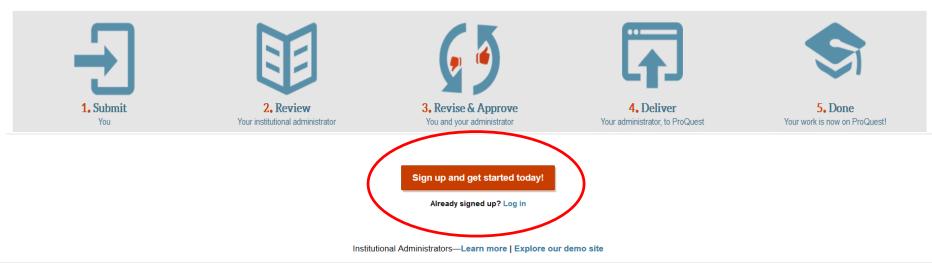
Make your thesis or dissertation available to the research community with **ProQuest ETD Administrator**

At Colorado School of Mines

Here's why:

- It's easy
- · Submissions, revisions, re-submissions, and approvals with your administrator, online
- Your work deposited, as applicable, into Colorado School of Mines repository
- Your work, part of the most comprehensive collection of dissertations and theses in the world—ProQuest Dissertations & Theses Global
- Our university resources and guidelines just a click away

Here's the workflow:



Contact us | About ProQuest Dissertation Publishing © 2017 ProQuest LLC. All rights reserved.

ProQuest

Submit your Thesis-ETD Details:

Manage this ETD:	ETD Details:
View ETD details	Title: ID: Make sure to enter a non-Mines email
Assign administrator Add notes	Author(s): Control Con
Edit tags	Publishing Settings & Copyright Traditional Publishing <u>View agreement</u> Delayed Release (ProQuest): 1 year of agreements not matching)
Save XML file View checklist	Allow search engine access. File for a new copyright - I am requesting that ProQuest/UMI file for copyright on my behalt
Decisions:	Institutional Repository (IR) Publishing Options Include in institutional repository: Yes Delayed Release (IR): Do not delay release to Institutional Repository
Register decision View decisions	PDF and Supplementary Files
Revisions/Changes:	No supplemental files provided
Revise details	Degree/Department Information Check your department Year degree awarded: 2014 Check your department
Revise PDF	Degree Awarded: Master of Science Year Manuscript Completed: 2014
Revise supplemental files	Department: Civil and Environmental Engineering YOUr
Revise PQ publishing options	Committee Members: Robert L Siegrist, Junko M Marr
Revise IR publishing options	Subject Categories Names

COLORADOSCHOOLOFMINES

Thesis Needs Revisions

From:Administrator of Colorado School of MinesTo:St u d e n tSubject:Request for minor changes to your submissionDate:Thursday, August 21, 2014 1:04:45 PM

Dear Student,

I'm writing you to request minor changes to your submission, "THESIS TITLE".

- Please log into ProQuest and click on the PDF in "View ETD details." You should find notations/comments made in the PDF requesting revisions.
- To submit your revised PDF, please go to the following page: <u>View ETD</u> (<u>http://www.etdadmin.com/xxxxxx</u>)
- After you UPLOAD your revised thesis, please remember to click the SUBMIT REVISION button at the bottom of the page.

Regards, Colorado School of Mines Administrator



Thesis Acceptance

From:	Administrator of Colorado School of Mines
To: Subject:	Student email Thesis Title
Date:	Tuesday, July 15, 2014 8:43:25 AM

Dear student,

Congratulations. Your submission, 10522 has cleared all of the necessary checks and will soon be delivered to ProQuest/UMI for publishing.

Regards, Colorado School of Mines Administrator Remember, you are not done with formatting until you have received this email. If you are not getting ProQuest emails, please check your spam email, check your ProQuest account or contact OGS. If your formatting has not been approved by the check-out deadline, then you have missed the deadline.







ETD FORMATTING



Formatting Highlights

- 1. Consistency matters
 - Consistent font style & size
 - All primary text is black. Colored text is only acceptable in figures and tables, but not the figure number or caption.
 - Headings and titles all have consistent font and style
- 2. Use only acceptable fonts and ALL fonts must be embedded
- 3. No blank pages
- 4. Avoid excess white space on pages
- 5. Center page numbers at bottom of pages
- 6. Thesis margins should be 1 inch from all edges
- 7. Front matter page numbers in lower case Roman numerals
 - Title page, submittal page, table of contents, list of figures & tables, abstract
- 8. No signatures on submittal page included in ETD (always numbered ii)
- 9. Supplementary <u>electronic</u> materials listed in a single Appendix
- 10. Rotate page orientation to optimize electronic viewing of illustrations (i.e. landscape figures)



Before You Submit Your Thesis

- You must use acceptable fonts
 - Times New Roman
 - Arial
- All fonts must be embedded
 - <u>https://inside.mines.edu/UserFiles/File/gradSchool/Embed%20F</u> <u>onts.pdf</u>



Before You Submit Your Thesis

- You need to make sure ALL your fonts are embedded.
- Directions:
 - Thesis Writer's Guide

	requirements nts
	How to Embed Fonts (required for printing) 🖬 🖹
Pa	ge Numbering
Ma	urgins
Lin	e Spacing and Indenting
Te	<u>xt Alignment</u>
<u>Tit</u>	les
Wh	nite Space
<u>Th</u>	esis Length and File Size
Со	pyright Permissions

Check PDF for Embedded Fonts

After your thesis is in PDF format

- Click on File
- Properties

File	Edit	View	Window	Help					
2)pen					Ctrl+O			
0)pe <u>n</u> Fr	om Acr	obat.com.						
Create									
🖹 S	ave					Ctrl+S			
s	ave <u>A</u> s				Shif	t+Ctrl+S			
s	ave As	Other				•			
S	ave <u>T</u> o	Acroba	at.com						
🖂 s	end Fil	e							
B Get Documents Signed									
R	le <u>v</u> ert								
2	lose					Ctrl+W			
P	rop <u>e</u> rti	ies				Ctrl+D			
🖨 🖻	rint					Ctrl+P			
V	/ie <u>w</u> Al	Recen	t Files						
1	. I:\\Lo	ogan Hi	Ilberry-fina	al.pdf					
2	!!\\G	D-Abdu	usalam_Ma	hmoud	10609097 AC.pdf				
3	I:\\G	D-Abdu	usalam_Ma	hmoud	10609097 LOA.pdf				
4	I:\\G	D-Abdu	usalam_Ma	hmoud	10609097 DLC.pdf				
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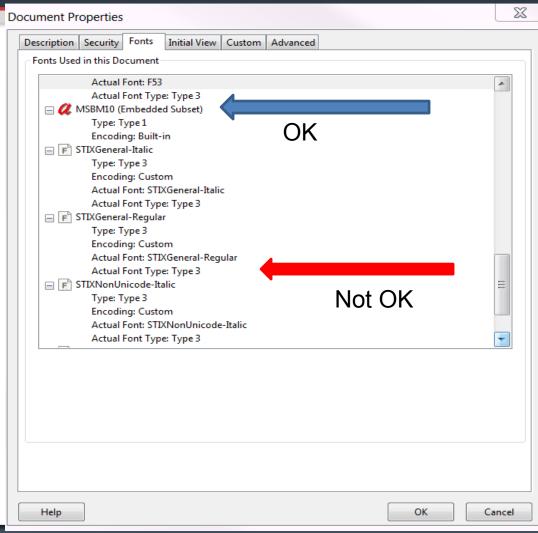
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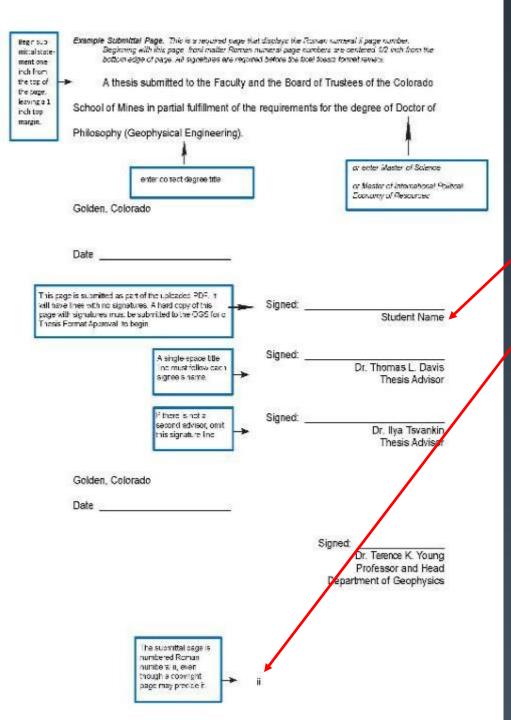
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> by Author's Name

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Example: Abstract. This is a required page that displays the Roman numeral iii page number. Note: the optional acknowledgments page follows the same format as the abstract page.

ABSTRACT

The title is centered in all capital letters one keyboard return below the top one- inch text margin.

The solving of large, real world, combinatorial optimization problems has been of interest to the operations research community for some time. Because the algorithms used in solving these problems tend to have high computational time complexities (Order N² or greater), even the theoretical solutions are difficult to achieve. Dealing with such problems in an industrial environment where other factors such as human interaction and non-determinism are present make the problem solution, and further, the implementation of the results, an even greater challenge. The contents of this document describe a method that can be used to solve these problems in an industrial environment. More specifically, the problems considered involve multiple objectives, each objective either being a combinatorial optimization problem or one that is somewhat subjective in its measurement. The method developed, which is grounded in the Analytic Hierarchy Process, is then used to solve a life optimation problem at the Coors Brewery in Golden, Colorado.

iii

Abstract

- Statement including:
 - The thesis problem
 - Description of the research method or design
 - A report of the major findings
 - The conclusions
- Title centered, in all capital letters & 1" from top of page
- Page iii

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LIST OF FIGU	RES	Double space between different			
LIST OF TABL	ES	entries.			
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CHAPTER 1	INTRODUCTION				
1.1	Introduction	1			
1.2	GPR Hardware	4			
1.3	Electromagnetic Wave Propagation	9			
CHAPTER 2	SENSITIVITY ANALYSES OF THE FREQUENCE DOMAIN	Single space individual entries that take more than one			
2.1	Backgroup and Previous Work				
2.2	Signal Processing Tools				
	2.2.1 Convolution and Deconvolution Methods				
	2.2.2 Scattering Parameters				
CHAPTER 3	ESTIMATING THE SOIL PROPERTIES				
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APPENDIX A	RAMP GENERATOR				
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APPENDIX C	SUPPLEMENTAL FILES	209			

Table of Contents List of Figures List of Tables References

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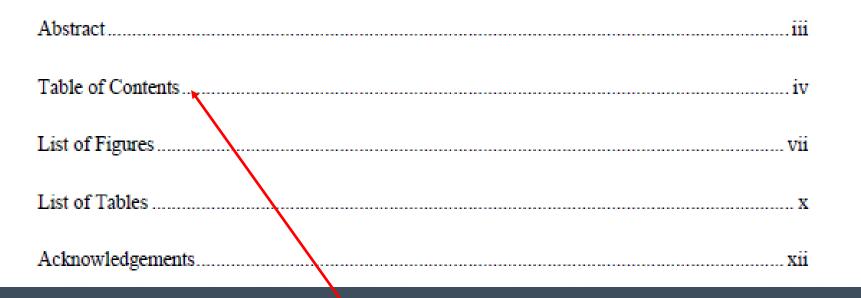
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Figure 1.1: Map of San Juan Range: a) Aerial vi bordering towns, and b) Detail view of the fie Figure 1.2: Regional Map of the San Juan Ran Figure 3.4: Paleogeographic reconstruction of	LIST OF FIGURES Note: Text in the incorrect version go beyond the leader d () 1.1: Map of San Juan Range: a) Aerial view of the San Juan Mountain Range with ing towns, and b) Detail view of the field study area					
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Table of Contents

TABLE OF CONTENTS



Do not include your Table of Contents page in the Table of Contents



CHAPTER 1

INTRODUCTION

Metal and mineral extraction using underground mining methods requires detailed engineering and planning to ensure the safe and economic operation of a mine. Mine planning is an iterative process and involves the evaluation of numerous options and scenarios [1]. Currently, most underground mine plans are developed using manual scheduling techniques, i.e., an engineer selects the sequence of activities that attempts to meet a desired production goal. These labor-intensive manual schedules tend to only satisfy a few constraints and may or may not be feasible in application. Mathematical modeling can incorporate a greater number of constraints while producing an optimal or near-optimal schedule in less time than a manual schedule.

This dissertation presents an underground production scheduling model, (Z), which is a variation of a resource constrained project scheduling problem (RCPSP). The RCPSP consists of an objective function, resource constraints, and precedence constraints [2]. Using the RCPSP formulation as a basis, the author formulates (Z) as an integer optimization model that schedules underground mining activities for a two-year time horizon. Model (Z) expands upon the basic RCPSP formulation by incorporating features that provide an operationally implementable solution that better reflects the actual mining environment.

A novel approach to scheduling is evaluated with the introduction of a ventilation constraint into the production scheduling model. Additionally, the ventilation constraint is used to evaluate three estimation methods that are based on the required airflow needed to dilute diesel particulate matter below regulatory limits.

Two solution methods are used to solve (Z). First, the branch-and-bound algorithm is evaluated using the commercially available software, CPLEX. The second solution method uses the academic research software, OMP Solver, which implements an unconventional

Chapters

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 - 1" margin from top of page
 - Centered horizontally
 - Title in all capital letters
 - Chapter 1 begins with page 1

 Begin each new chapter on new page.

Figures & Tables

- Figures & Tables must be numbered and have a descriptive caption.
 - Figure & Table numbers:
 - · The first number (2) = the chapter number
 - The second number (4) = the figure number \underline{within} the chapter
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Figures & Tables Numbers & Captions

Figure numbers & captions are placed <u>under</u> the figure. Table numbers & captions are placed <u>above</u> the table.

Figure Example:

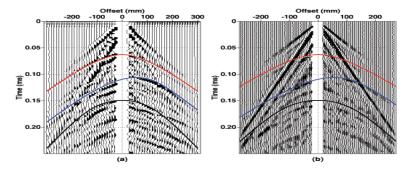


Figure 5.7 Horizontal component of the wavefield: (a) data recorded with the P-wave source and S-wave receiver transducer; (b) data recorded with the S-wave source and the laser vibrometer as the receiver.

Table Example:

Table 1.1. Sediment gravity-flow continuum organized by increasing sediment concentration, grain size, and transport capacity (from Middleton and Hampton, 1973; Lowe, 1979; Lowe 1982.

Sediment Gravity Flow	Sediment Support Mechanism	Depositional Process	Sediment Concentration	Grain Size
turbidity current	fluid turbulence	traction and suspension	1	1
fluidized flow	hindered settling	suspension	.e	胆
liquefied flow	hindered setting	suspension	32 i	asi
grain flow	dispensive pressure	frictional freezing	er er	increasing
debris flow	matrix strength	cohesive freezing		⊑
slumps/slides	matrix strength	cohesive freezing	•	•

The next paragraph begins here.....

Figures and Tables



 $\label{eq:constraint} \begin{array}{l} 10,000 \mbox{ ft along the basin} \\ axis near Denver and Greeley but thins to < 500 \mbox{ ft along the eastern border} \end{array}$

The western margin of the Basin is defined by the Front Range Up.....

Figure 2.8 Reconstruction of the mid-late Cretaceous.....

Do place your main body text either above or below the figure/table

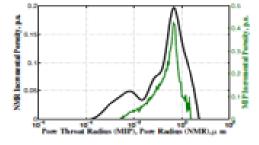
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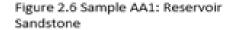


Figure 2.8 Reconstruction of the mid-late Cretaceous.....



Figures and Tables





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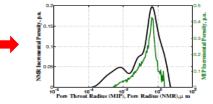


Figure 2.6 Sample AA1: Reservoir Sandstone

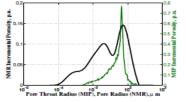
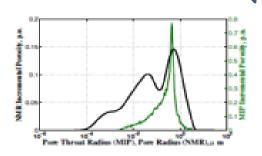


Figure 2.7 Sample AA2: Reservoir Sandstone



Do place your figures or tables one after the other (if applicable)

Figure 2.7 Sample AA2: Reservoir Sandstone



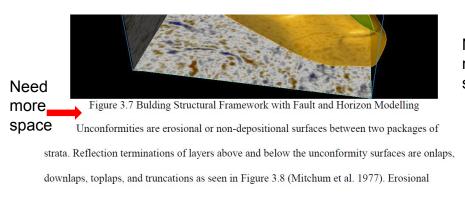
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 - See examples below of a thesis with too little space between the captions and paragraphs, making it difficult to see where the caption ends and the paragraph begins.



Spacing Between Captions and Text

Sufficient space



unconformities, their time equivalence, the scale of the interpretation, seismic character of the

Need more		ons, and the level of Table 4.1 Sig		•	ing the seismic ho e Seismic Interpre	
	Age of the Seismic Horizon	Structural Significance	Scale	Interpreted On	Reflection Characteristics	Confidence
	Late Miocene	Regional Post- Rift	Profile	Peak	Regional Unconformity	Medium
	Base Miocene	Regional Post- Rift	Profile	Peak	Regional Unconformity	Medium

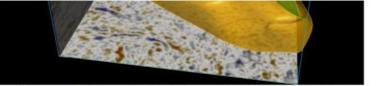


Figure 3.7 Bulding Structural Framework with Fault and Horizon Modelling

Unconformities are erosional or non-depositional surfaces between two packages of

strata. Reflection terminations of layers above and below the unconformity surfaces are onlaps,

downlaps, toplaps, and truncations as seen in Figure 3.8 (Mitchum et al. 1977). Erosional

unconformities, their time equivalence, the scale of the interpretation, seismic character of the

interpreted horizons, and the level of confidence in interpreting the seismic horizons (Table-4.1).



Table 4.1 Significant Parameters in the Seismic Interpretation Space

Age of the Seismic Horizon	Structural Significance	Scale	Interpreted On	Reflection Characteristics	Confidence
Late Miocene	Regional Post- Rift	Profile	Peak	Regional Unconformity	Medium
Base Miocene	Regional Post- Rift	Profile	Peak	Regional Unconformity	Medium

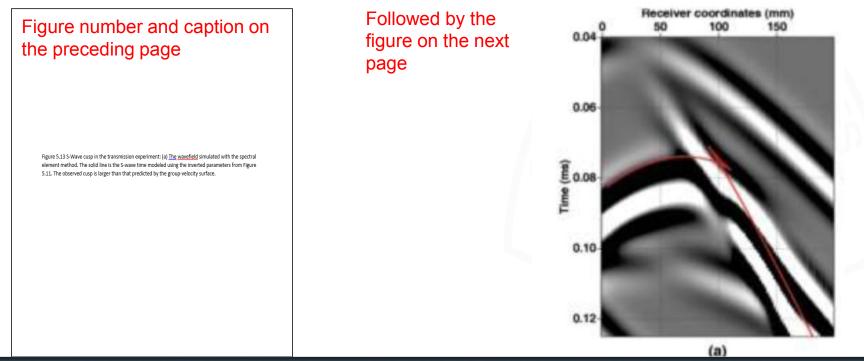
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Figures & Tables Large Size Continued

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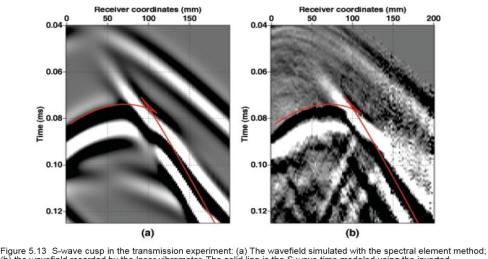


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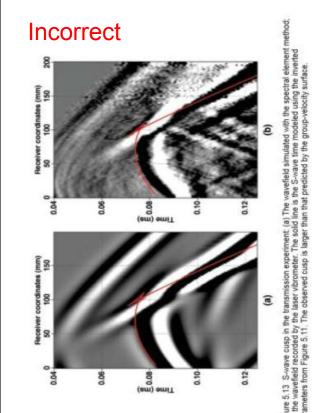
Correct

- Top of Figure/Table is at the top of the page
- Page number is at the bottom of the page



(b) the wavefield recorded by the laser vibrometer. The solid line is the S-wave time modeled using the inverted parameters from Figure 5.11. The observed cusp is larger than that predicted by the group-velocity surface.

Even though the thesis is in portrait mode, this figure is in landscape mode and is optimized for viewing on a computer screen.



Numbered Equations

- Equations must appear on separate line from other text.
- Equations must be centered on the page or indented.
- Equations that are not in running text must be numbered (see example below)

 $\Gamma-\delta\times a=0$

(2.1)

Equation indented or centered

Equation number aligned with right margin

- Equation numbers:
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Equations in Running Text

- Equations are a part of a sentence.
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Example:

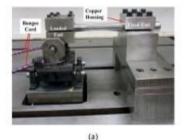
If the bridge has been balanced by setting $R_1 = R_2 \equiv R_0$, it is easy to show that $V_{out} = V_0/2$.





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- You need to eliminate as much white space at the bottom of the page as possible.





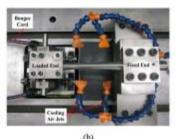
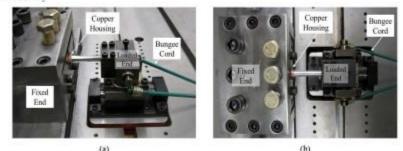


Figure 3.9 Bending fatigue set up for the SF-1-U: (a) front view and (b) top view with the cooling air connected (color image; refer to PDF file).

The bending fatigue set-up for the SF-01-U fatigue tester is shown in Figure 3.10. The bungee cord and copper sleeve shown in Figure 3.10 were used to maintain the integrity of the fracture surface and to eliminate fretting between the sample and fixture during testing. The overall set-up of the fixture is similar to the large fatigue sample set-up with the exception that there is no cooling air applied to the sample. Even in low cycle fatigue testing, the small fatigue sample did not heat up more than 1-2 °C above room temperature so cooling air was deemed unnecessary.



(a)

Figure 3.10 Bending fatigue set-up for the SF-01-U: (a) front view and (b) top view (color image; refer to PDF file).

The temperature in the fatigue testing laboratory was maintained between 22 and 26°C. The humidity in the room was maintained below 35% relative humidity with the use of three dehumidifiers. No correlation between total fatigue life and room humidity was observed. For the majority of fatigue tests, the room humidity was below 20%

3.3.4 **Tensile Testing**

Tensile testing was conducted to determine case and core tensile properties of all the induction processed conditions. Specimens were machined according to the ASTM E8-2008 standard [63] from the as-received bars of the 1045, 4145, and 1060 alloys (Figure 3.11). To simulate the core microstructures, the tensile samples were heat treated similarly to the initial heat treatments described in Table 3.2. Then, the specimens were tempered at 176 °C

No White Space:

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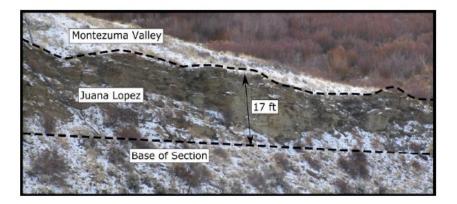


Figure 3-11: Delaney Buttes outcrop exposure of the Juana Lopez.

The Juana Lopez at Delaney Buttes was divided into 46 small scale parasequence hemicycles, nine parasequence sets, and two large scale sequences hemicycles (Figure 3-12) The Delaney Buttes outcrop has a net-to-gross ratio of over 70% with only 7.9% mudstone (Figure 3-13). This is a much higher value than measured at the other locations to the south and southeast. In terms of facies, the section contains abundant rippled beds, particularly wave rippled beds, and planar laminated beds (Figure 3-13).

Too much white space

Example of too Much Space:

Note: the text and illustrations do not fill the page



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- At the end of a chapter.
- If you have a figure or table that fills more than 50% of the page AND the figure or table stands alone on the page.
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 - Move text that would normally follow the table or figure to the preceding page before the table or figure.



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2.5 Subheading

Eliminate Excess White Space

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2	59.8	91.2	47.8	66.3
3	63.4	89.6	46.4	66.5
4	51.5	879	47.5	62.3
5	50.9	91.5	44.3	62.2
6	57.2	90.6	46.9	64.9
7	61.5	88.7	46.8	65.7

2.6 Subheading

2

Rules for Eliminating White Space continued

New section headings at the bottom of the page:

page.

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The foundation and basement are identical to the LFW house model and the steel beams



Rules for Eliminating White Space continued

- New paragraphs at the bottom of the page:
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CHAPTER 2

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Abstract

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	· · · · · · · · · · · · · · · · · · ·
Geographical Data Files	Files containing geographical location information of all survey lines. Files include raw survey data, reduced survey data showing relative location of each station with respect to a survey base station, and absolute latitude and longitude of each survey location. All files are in Microsoft Excel 2003 format. See figure 2.3 for area map show location and orientation of each survey line.
GeographDescript.txt	ASCII file containing description of data file format for all files containing geographical information included as part of these electronic supplementary files.
Line111.xls	Geographical survey information for line 111. See figure 2.3. See GeographDescript.txt for description of data included in each page and for each column of the spreadsheet.
Line112.xls	112. See figure 2.3. See GeographDescript.txt for description of data included in each page and for each column of the spreadsheet.
Line113.xls	Geographical survey information for line 113. See figure 2.3. See GeographDescript.txt for description of data included in each page and for each

Supplemental Files

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Appendix is listed in Table of Contents



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