



Welcome

Mechanical Engineering Graduate Students

Mechanical Engineering Graduate Students Informational Session

- ▶ Introductions
 - ▶ ME Graduate Website
- ▶ The Basic Requirements for Program
 - ▶ Financial Support
 - ▶ Forms & TIMELINES
 - ▶ Thesis & Dissertation

UNM | Mechanical Engineering


News | Accreditation | Find People | Contact Us | Location

Search Engineering... Search


ABOUT | ACCREDITATION | RESEARCH | **PROGRAMS & DEGREES** | **STUDENTS**

MECHANICAL ENGINEERING

BUILDING THE FUTURE




Admissions




- Undergraduate Admissions
- Graduate Admissions
- Financial Aid
- Why Study at UNM?

Formula SAE




- Formula SAE Website

People



- Faculty Directory
- Staff Directory
- Employment

Contact Us



- Map & Directions
- Schedule a Visit

Search UNM


THE UNIVERSITY of
NEW MEXICO | Mechanical Engineering Graduate Programs

Future Students | Current Students | ME Department | School of Engineering | UNM Graduate Studies

Events + News | UNM Learn | UNM Class Schedule | UNM Catalog | Contact Us

Quick UNM Finds

- UNM StudentInfo
- Centennial Library
- Bookstore
- Campus Map
- Visiting UNM Campus




Welcome to the UNM Mechanical Engineering Graduate Programs' website. The ME Graduate Programs offer the MSME and PhD degrees. Our faculty members and graduate students form a group of scholars with an interest in innovation, creativity, and advanced study. Our programs provide excellent prospects for investigation and for close association among people whose common goal is to broaden the boundaries of their profession.

This web site is intended to assist our prospective and current students with their application process and plan of studies:

Application Information for Prospective ME Students

Policies, Procedures, and Requirements for Current ME Students



All pages of this website are best viewed with the Internet Explorer.

The Basics:

Degree Requirements MSME

Plan I: Thesis

- 24 hrs crsewk
- 6 hrs Thesis [ME 599]
- 0 hr seminar
- 1 hr seminar

Plan II: Project

- 30 hrs crsewk
- 3 hrs "Design Project" [ME 559]
- 0 hr seminar
- 1 hr seminar

Plan III: Course Work Only

- 33 hrs crsewk
- 0 hr seminar
- 1 hr seminar

PhD in Engineering w/ a Concentration in Mechanical Engineering

- 54 hours of coursework + 18 hrs dissertation + 0 hr seminar + 0 hr seminar + 1 hr seminar
 - 54 hours of coursework can include 30 hours of MS work with a maximum of 6 hrs of master's thesis
- Qualifying Exam
 - Taken during the second semester of PhD program
 - Exams are given in Eng. Math and three other areas
 - Thermal Sciences: Thermodynamics, Fluid Mechanics, or Heat Transfer
 - Mechanical Sciences and Engineering: Dynamics, Mech of Materials, or Controls
 - Other Physical Sciences: Materials Science

PhD in Engineering w/ a Concentration in Mechanical Engineering (cont.)

–Comprehensive Exam

- Normally taken within one year of passing the qual. Exam; doing it later is also fine.
- Consists of both written proposal and oral examination.



Important!

- ▶ Identify your advisor early (by the **beginning** of your **second semester**)
- ▶ Communicate with your advisor often
- ▶ Graduate Student Activity Report – a mandatory annual review process (form needs to be signed by you and your advisor; deadline: **Feb. 15 each year**)
- ▶ Pay attention to course requirements (core courses, grade restriction etc.)

ME Graduate Core Courses

1) One **mathematics** course, selected from:

ME 500 Numerical Techniques in Mechanical Engineering

ME 504 Computational Mechanics

ChBE 525 Methods of Analysis in Nuclear, Chem. & Bio. Engineering

Any Math/Stat 5XX course

2) One **thermal science** course, selected from:

ME 520 Advanced Thermodynamics

ME 530 Theoretical Fluid Mechanics

3) One **solid mechanics** course, selected from:

ME 501 Advanced Mechanics of Materials

ME 512 Continuum Mechanics

ME 540 Elasticity

4) One **dynamics & controls** course, selected from:

ME 516 Applied Dynamics

ME 580 Dynamic System Analysis

ME 581 Digital Control of Mechanical Systems

ME 562 Spacecraft Attitude Dynamics and Control

Financial Support

- ▶ Research Assistantships(RA) opportunities – Individual faculty
- ▶ Departmental Opportunities –
 - Teaching Assistants (TA)
 - Grader positions

Turn in the TA/GA Application Form by Nov. 1 (for Spring semester consideration) and Apr. 15 (for Fall semester consideration)

The Next Step: Timelines and Forms

- ▶ It is really important to comply with deadlines as these can delay your graduation.
- ▶ ME and most Office of Graduate Studies (OGS) forms & deadlines can be found at the ME Graduate Program website:

<http://www.unm.edu/~megrad/>

MSME– Forms and Timelines

- **Advisor Assignment Form**
- **Committee on Studies Form**
 - Committee must consist of at least three people – two people must be tenure–stream regular ME faculty
- **Program of Studies**
 - This is an OGS document and must be approved by that office by specific deadlines: 10/1 (for spring graduation), 3/1 (summer), 7/1 (fall).
 - Be sure to give the ME Dept. time to review this before sending.
 - Submitted to Ms. Apodaca, who will send to OGS after Dr. Vorobieff's approval

MSME– Forms and Timelines

- **Intent To Graduate Form**
 - Must be submitted to Ms. Apodaca by the second to the last week of the term **BEFORE** you intend to graduate. (Example: submit by second to last week of summer term to graduate in fall term.)
 - If you plan to change your graduation semester, please notify Ms. Apodaca.
- **Announcement of Examination**
 - Completed and submitted to Ms. Apodaca at least three weeks prior to exam/ thesis defense. She will obtain all signatures needed and submit it to the OGS on your behalf.
- **Report of Examination (not done by students)**
 - Completed by your committee chairperson and submitted to Ms. Apodaca.
 - Approved by Dr. Vorobieff and sent to the OGS

PhD Forms and Timelines

- Advisor Assignment Form
- Qualifying Exams
- Appointment of Dissertation Committee
 - Should be completed no later than 1st semester of ME 699 enrollment.
 - The committee MUST consist of at least 4 people—at least 2 must be **tenure-stream regular ME faculty at UNM**, and 1 must be an external **non-ME UNM tenure-stream faculty** or a **tenure-stream faculty from outside of UNM**. The 4th one can be **anyone considered expert in the field**. Talk to Dr. Vorobieff if there is any doubt.

PhD Forms & Timelines (cont.)

- Application for Candidacy
 - Completed in same semester as the comprehensive exam
 - Submitted to Ms. Apodaca, who will send to OGS after Dr. Vorobieff's approval
- Announcement of Comprehensive Exam
 - Submitted to Ms. Apodaca at least three weeks prior to exam date
 - Sent to OGS for approval
- Report of Comprehensive Exam (not done by students)
 - Submitted to Ms. Apodaca after exam by committee chair
 - Approved by Dr. Vorobieff and sent to the OGS

PhD Forms & Timelines (cont.)

- Intent to Graduate– submission deadlines are the same as in MSME program
- Announcement of Dissertation Defense
 - Submitted to Ms. Apodaca at least three weeks prior to exam date
 - Approved by Dr. Vorobieff and sent to the OGS
- Report of Defense (not done by students)
 - Submitted to Ms. Apodaca immediately after exam by committee chair
 - Approved by Dr. Vorobieff and sent to the OGS

Thesis & Dissertation

- PLEASE NOTE:

Once you **ENROLL** in thesis/dissertation hours, you **MUST** enroll in at least 1 credit hr every semester (excluding summer) until you graduate.

Submission of Final Thesis / Dissertation after Defense

- Submission of final thesis/dissertation to the university is done electronically through LoboVault
- Have questions in regards to your thesis submission contact: Doug Weintraub in the OGS (277-2711)
- Deadlines for completing all degree requirements including submission of thesis & dissertation are as follows:
 - Spring Graduation (April 15th)
 - Summer Graduation (July 15th)
 - Fall Graduation (November 15th)

OGS' Courtesy Policy

- IF you are unable to meet the deadlines for thesis/dissertation submission yet can complete these degree requirements before the end of the semester – you may take advantage of the OGS' Courtesy Policy.
 - You will technically graduate the following semester.
(Ex: You complete degree reqs. by the end of the spring semester and graduate in the summer semester)
 - You will not be required to enroll in classes for the semester you will graduate.
- Please notify Ms. Apodaca if you plan to use this policy.

Questions?

- ▶ Please contact Anna Mae Apodaca aapodaca@unm.edu, 277-2762, or stop by room 204
- ▶ JJ Conn, jconn@unm.edu, 277-1327, room 206
- ▶ Dr. Vorobieff may be contacted at kalthoth@unm.edu, 277-8347, and office hours by appointment.