

Student Research Experience Program



Orientation

Yadéeh Sawyer, Ph.D. she/her/ella Engineering Student Success Center

ESS.UNM.EDU > Programs & Opportunities> Current Students>Research



goto.unm.edu/sre



ESS.UNM.EDU > Programs & Opportunities> Current Students>Research> Student Research Experience

1 semester @ a time

NO ONE IS A MIND READER. Clearly Communicate

YOUR NEEDS.



- Name & pronouns
- Major
- Year
- What does it mean to be a student researcher?
- What motivated you to join the program?



RESEARCH BASICS



































The best research is the research that you don't know that you are doing.

Terry Pratchett

a quotefancy

Research = Collaboration

Lab meetings

to opus

strongs processing and magnesses another the ward foundations) recolutions from which an other consideration mention and mon I wel from more forward analist works for an inter for an inter and the second sec not butine) moierrows breevelowd a bute framework a manistral multiroala CstcDeD viva3-stanilat-astoc'D-lifael way [20], [21]. Two well-known MAPSSE schemes are the burve to be combined, which is possible in a straightforward (HAPPER STREET OF SYMPOL-BY-SYMPOL CENTRALOR (MAPSSE) For this, the principles of reduced-state equalization and maxhighly desirable for subsequent channel decoding [20]-[22]. for generation of additional soft output is possible, which is MARKEN DOR MENTOLICI TO ROUMINDERS OR ,ORLA . SOURCHINDING DOOR promising analidates successions and alongs longer and and and manual frequencies from the many and hearing 1082 00 808





Determine roles



Balance



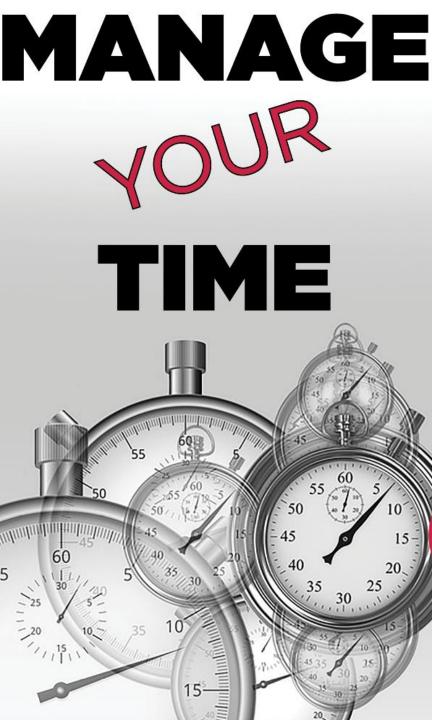
Individual goals

Group goals

Methods



3x longer than you THINK it will take



66

Coming together is a beginning. Keeping together is progress. Working together is success.

Henry Ford 77

Problem solving





Conflict resolution

Personal accountability

Selfconfidence





Take risks

Lab hierarchy



Primary or Lead Researcher/Advisor/Mentor

Post-Doc

Graduate Student

Upper Level Undergraduate

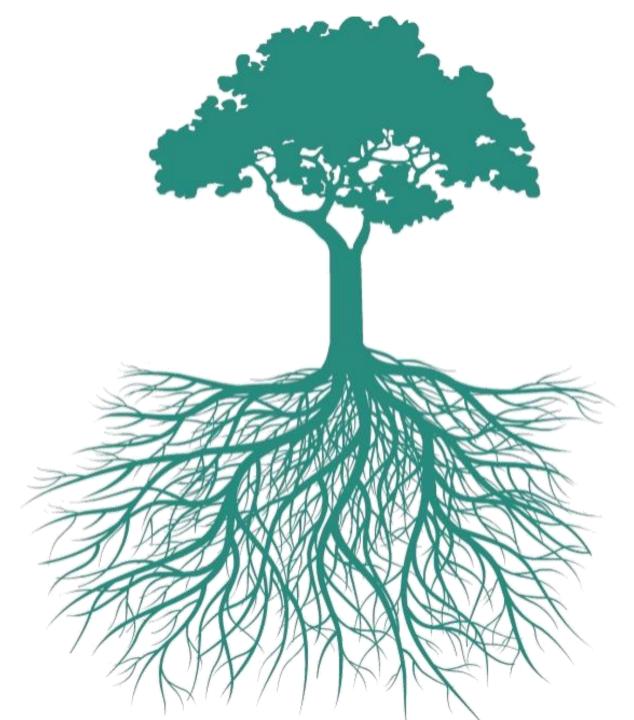
Early Undergraduate

High School Student



Supportive tasks

Foundational information



Collecting information

- Theoretical vs Experimental

 Develop knowledge (science) vs designing for practical use (engineering)

SCIENCE

- Investigates to understand the natural world
- Scientists find out how and why something in the natural world occurs.
- Focuses on data collection and analysis. Data may confirm, condradict, or add to what we already know.

Examples:

- Studies that categorize new species.
- Studies that explore space including Mars and other planets.
- Studies that explore how environmental factors affect human life.

ENGINEERING

- Applies science, math, and technologies towards existing problems in order to solve them.
 - Engineers use investigation and data as a way to solve a problem or a need.
- Investigations
 may also be used to find the best solution to a problem.

Examples:

- Designing eco-friendly fuels.
- Designing technology to clean up the world's oceans.
- Designing better bridges, buildings, and power supplies.



Inception of unique research questions

- Basic
- Applied

Writing/ reporting findings

URDG

UNDERGRADUATE RESEARCH OPPORTUNITY CONFERENCE

https://uresearch.unm.edu/

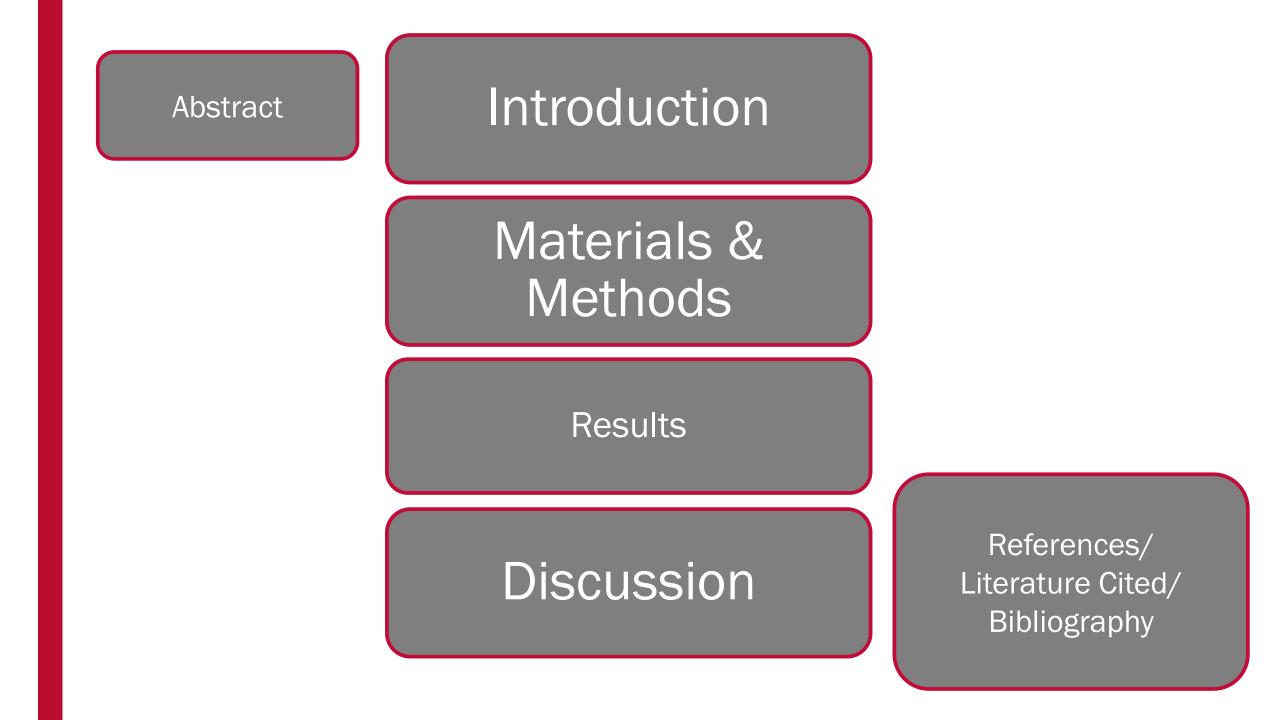
Research Location



Scientific Reading & Writing







No details

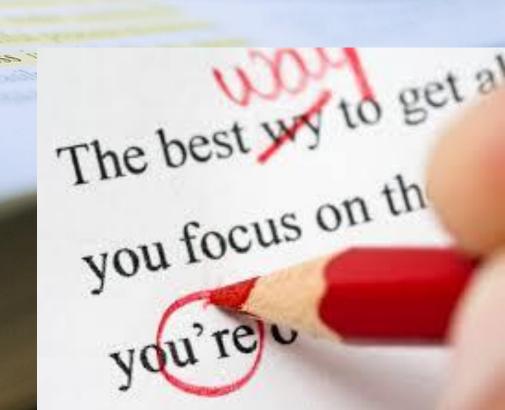
Mark it up!

Still dont

encine harder

pird, the

09 ans





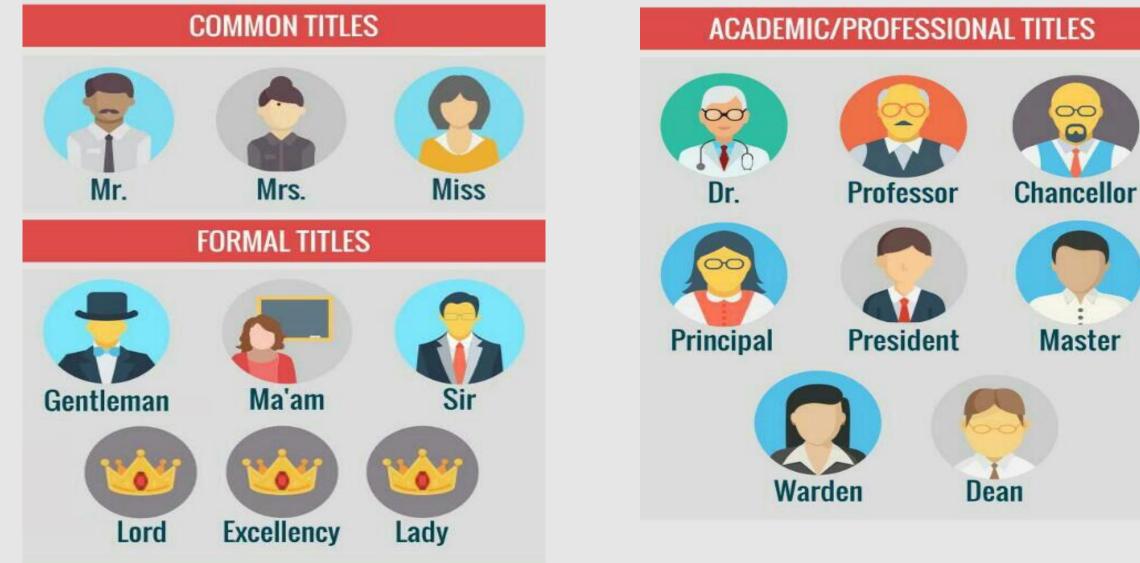


PROGRAM EXPECTATIONS & TIPS FOR SUCCESS



PROFESSIONAL

TITLES







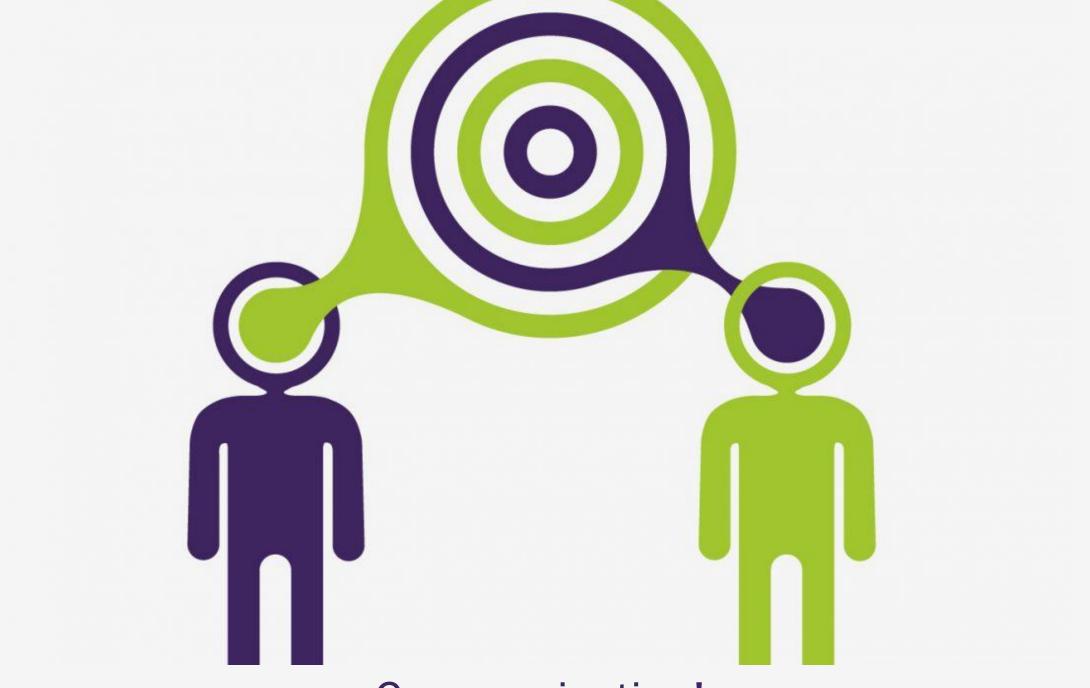
Where to Start





Time Commitment



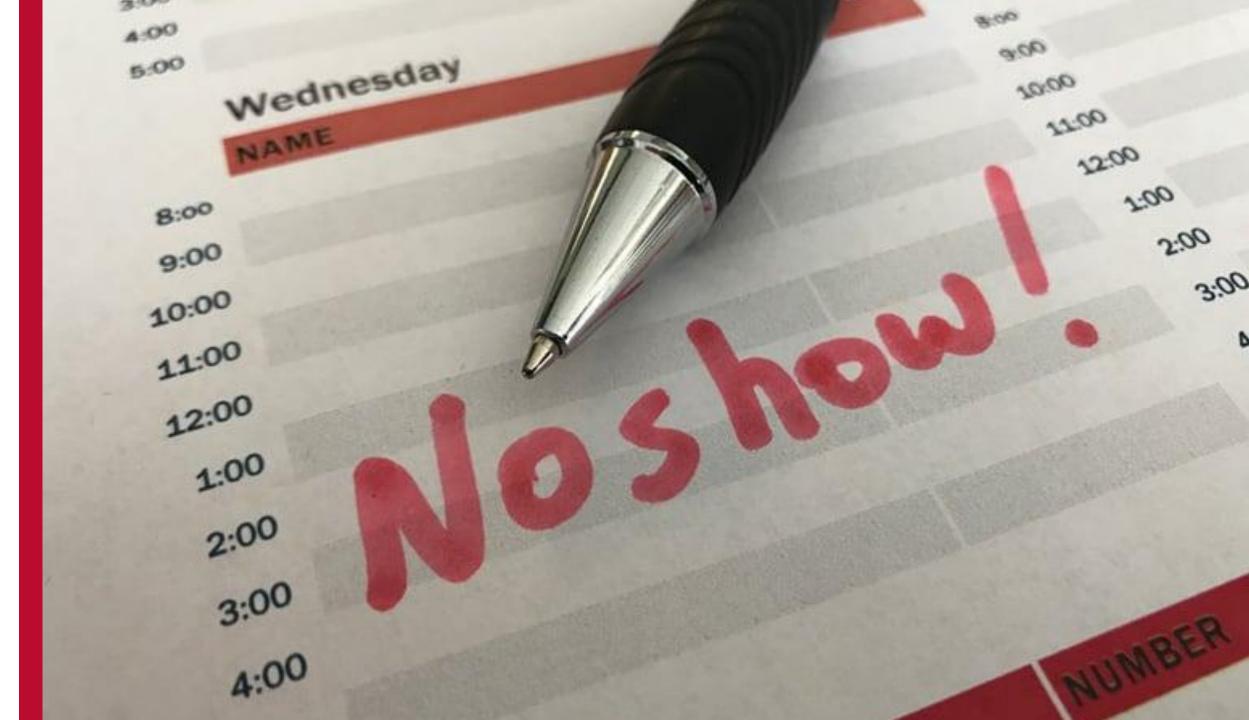


Communication!





Late. Cancel. Re-schedule.











https://goto.unm.edu/ess-resources

Want help with anything related to your SOE Experience?

For academic support, career & professional development and so much more. Check out our resrouce page and reach out as needed.





OTHER PROGRAMS/ OPPORTUNITIES





Drop-In Tutoring for Engineering & Computing

Get help in your core STEM courses, engineering & computing specific classes, software, and coding languages.

ESS suite (CEC 2080) & online via Zoom



Tutoring schedule & more info at

ess.unm.edu/services/tutoring/

or through our web-app - succESS





A tool for engineering your

succ**ESS**

This web APP allows you to keep up to date on all we have to offer.





success.unm.edu

Includes 1-click RSVP



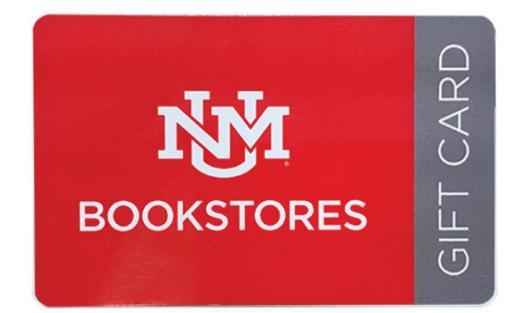




Join our events for **YOUR CHANCE** to win!

Each semester we award **Gift Cards** to the UNM Bookstore based on most attended (with bonus points for providing feedback).

WIN a gift card. GAIN experience. BUILD your skillset. ENHANCE your resume.





Weekly ESS Center Announcements

Week of August 24, 2021

Please share as you feel appropriate.

ESS HOTLINE: 505-277-4354 | E-mail: ess@unm.edu | Website: ess.unm.edu

SUMMARY

All of our events are FREE and you can ...

WIN a gift certificate. GAIN experience. BUILD your skill set. ENHANCE your resume.

- Upcoming <u>Engineering Student Success Center Events</u> and opportunities
 - o This Week
 - Welcome back to campus and to the Fall 2021 semester
 - Join us at the UNM Communities Day (8/25)
 - New Announcements
 - Intel Information Session (9/1)
 - Spatial Visualization Series (9/20, 10/25, 11/16)
 - o Next Week
 - Lab Safety Matters series (3 part series; every other Tuesday)
 - o Coming Up
 - Building Connection & Networking (Sept 2)
 - Join our Semester Long Programs (deadline: Sept 5)
 - STEM Mentoring & Peer-mentoring Programs
 - Internships
 - Student Research Experience Program
 - Interviewing Basics (Sept 7)
 - STEM Mixer (Sept 10)
 - Open House (Weekends this fall)
 - Reminders

- Sign up to be part of EPICS @ UNM
- Read all about Mari Aoki (athlete) our newest showcased student
- ESS Resource Page
- Together We Stand

Other ESS Center/SOE News and Info

- Job/Research Opportunities/Scholarships

 Join our Internship Programs
- Other UNM opportunities and news for STEM students
- Community news and opportunities



Please share as you feel appropriate.

UNMESSCENTER Follow us on Social Media

We have additional resources for Future Students HERE.

ENGINEERING STUDENT SUCCESS CENTER EVENTS:

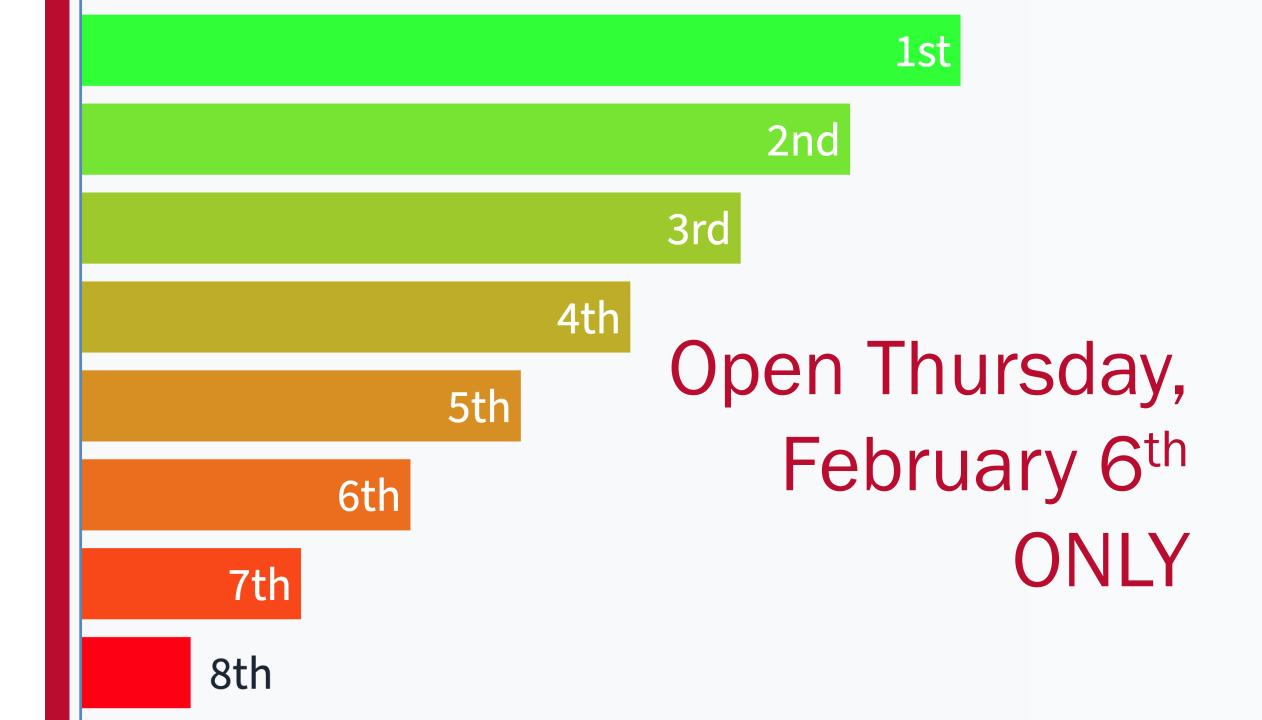
All students are welcome to attend. More information can be found at <u>https://ess.unm.edu/events</u> or through our app (<u>succESS</u>)

THIS WEEK:

Welcome to the Fall 2021 Semester! Join us at the UNM Communities Day (8/25) https://sac.unm.edu/events/welcome-back-days.html



ADDITIONAL INFORMATION









Reach out to your pear

If you don't get a match... Make the opportunity for yourself

- Finding a Research Mentor
 - 5 Page PDF
 - Extended edition as a YouTube Video
- WHY Lab





https://ess.unm.edu/programs/current-students/research-programs/student-research-experience.html





Oľ



our succESS web-app



Yadéeh Sawyer yadeeh@unm.edu | 277-9151