Weekly ESS Center Announcements

Week of January 4, 2022

Please share as you feel appropriate.
These weekly announcements are sent out on Tuesdays. If you would like us to include your information, please send it to yadeeh@unm.edu by Friday at 5 PM.

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 Engineering Student Success Center Events and opportunities
  - This Week
    - Welcome to 2022!
    - EPICS @ UNM
  - New Announcements
    - Interviewing Basics (Feb 2)
    - Two-Axis Rotations (Feb 3)
  - Next Week
    - Pre-Semester Prep Workshops (Jan 10-14)
  - Coming Up
    - Semester Long Engagement through Mentoring, Internships, and Research
    - Writing Résumés & Cover Letters (Jan 28)
    - ESS’s Spring Line-Up
  - Reminders
    - Introducing: Faculty Highlights with Dr. Daniel Banuti
    - ESS News: L. "Zyri" Wilds, 2021-2022 Raymond E. Plotkin Scholarship Recipient
ESS Resource Page
  - 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

Stay informed via our app!:
"engineering your succESS"
SUCCESS.UNM.EDU

Download instructions:
https://success.unm.edu/menu/howToInstall/

Please share as you feel appropriate.

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 https://ess.unm.edu/events or through our app (succESS)

THIS WEEK:
• There is still time to join EPICS @ UNM for the Spring 2022 semester
  Learn more at https://goto.unm.edu/epics

NEW ANNOUNCEMENTS:

• Interviewing Basics
  - What: Career and Professional Development Event
- **When**: Wednesday, February 2, 2022. 5 - 6 PM.
- **Where**: Synchronous in-person (in the ESS suite - CENT 2080) and virtual via Zoom (https://goto.unm.edu/esszoom)
- **Presenter**: ESS’s very own Nada Abdelhack - Job & Internship Coordinator
- **RSVP** is preferred but not required. RSVP will get you week before and day before email reminders. RSVP for EACH desired session at https://ess.unm.edu/events > January or our succESS app (https://success.unm.edu/events).

**Two-Axis Rotations** - In this workshop, Students learn about two-axis rotations with a specific emphasis on how to rotate objects both physically and mentally about two axes. A two-axis rotation is a rotation of an object about a combination of x, y or z-axes, as opposed to a single-axis rotation, which is about a single x, y or z-axis. This workshop follows the same format as that of the one-axis rotation workshop. Students practice drawing two-axis rotations through an exercise using cube blocks to create shapes, and then drawing on isometric paper the shapes from various x-, y- and z-axis rotation perspectives. Then they individually apply the same rotation concepts in a workbook exercise. They also pair up with a partner to test their exclusively mental spatial visualization abilities at a station with no rotating built objects. Lastly, students further solidify two-axis rotation concepts via computer software exercises.
- **What:** Spatial Visualization Series
- **When:** Thursday, February 3, 2022. 4 - 5:30 PM.
- **Where:** Synchronous in-person (in the ESS suite Computer Pod - CENT 2080) and virtual via Zoom ([https://goto.unm.edu/esszoom](https://goto.unm.edu/esszoom))
- **RSVP** is preferred but not required. RSVP will get you week before and day before email reminders. RSVP for EACH desired session at [https://ess.unm.edu/events](https://ess.unm.edu/events) > January or our succESS app ([https://success.unm.edu/events](https://success.unm.edu/events)).

### Spatial Visualization Series

*Attend 1, 2, 3, or all 4*

1. Feb 3. Two Axis Rotation
2. Mar 3. Inclined Planes & Curved Surfaces
4. Apr 21. Write Rule

Select Thursdays. 4 - 5:30 PM

**Synchronous in-person**

(in the ESS Computer Pod - CENT 2080) and virtual via Zoom ([https://goto.unm.edu/esszoom](https://goto.unm.edu/esszoom))

Learn more or RSVP at [ess.unm.edu/events > Feb. Mar. Apr.](https://ess.unm.edu/events) or through our app - succESS

### NEXT WEEK:

- **Pre-Semester Prep Workshops:** These interactive workshops will review all foundational material leading up to the specified course so you are better equipped to hit the ground running.

  + Attend our Physics 1, Pre-Calc/Trig, Calc 1, or Calc 2 sessions and provide feedback for **access to a general knowledge exam** to even better prepare you for the first exam (and potentially beyond) within your course.

### Topics:

- Physics 1 Prep
- Chemistry 1 Prep
- Trigonometry & Pre-Calculus Prep (College Algebra Review)
• Calculus 1 Prep (Pre-Calc/Trig Review)
• Calculus 2 Prep (Calculus 1 Review)
• Calculus 3 Prep (Calculus 2 Review)

- **Partners/Presenters:** ESS Center and CAPS
- **Where:** Synchronous in-person (in the ESS suite - CENT 2080) and virtual via Zoom ([https://unm.zoom.us/j/9915837421](https://unm.zoom.us/j/9915837421))
- **RSVP** is preferred but not required. RSVP will get you week before and day before email reminders. RSVP for EACH desired session at [https://ess.unm.edu/events](https://ess.unm.edu/events) > January or our succESS app ([https://success.unm.edu/events](https://success.unm.edu/events)).

**Pre-Semester Prep Workshop Series**

These interactive workshops will review all foundational material leading up to the specified course so you are better equipped to hit the ground running.

**Synchronous in-person in the ESS suite & virtual via Zoom**

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 1 Prep</td>
<td>Monday, January 10, 2022</td>
<td>10 AM - 12 PM</td>
</tr>
<tr>
<td>Pre-Calc/Trig Prep</td>
<td>Tuesday, January 11, 2022</td>
<td>10 AM - 12 PM</td>
</tr>
<tr>
<td>Calculus 1 Prep (Pre-Calc/Trig Review - PM offering)</td>
<td>Tuesday, January 11, 2022</td>
<td>1 - 3 PM</td>
</tr>
<tr>
<td>Chemistry 1 Prep</td>
<td>Wednesday, January 12, 2022</td>
<td>10 AM - 12 PM</td>
</tr>
<tr>
<td>Calculus 1 Prep (Pre-Calc/Trig Review - AM offering)</td>
<td>Thursday, January 13, 2022</td>
<td>10 AM - 12 PM</td>
</tr>
<tr>
<td>Calculus 2 Prep (Calc 1 Review)</td>
<td>Thursday, January 13, 2022</td>
<td>1 - 3 PM</td>
</tr>
<tr>
<td>Calculus 3 Prep (Calc 2 Review)</td>
<td>Friday, January 14, 2022</td>
<td>10 AM - 12 PM</td>
</tr>
</tbody>
</table>

*Attend & give feedback for Physics 1, Pre-Calc/Trig, Calc 1, or Calc 2 sessions for access to a general knowledge exam.*

**RSVP is preferred but not required**

ess.unm.edu/events > January

or through our app - succESS

**COMING UP:**

- **Resumes and Cover Letters** - Ever wonder what to include and what to avoid? What do you include if you feel like your relevant experience is lacking? How do you make the cover letter complement the resume rather than repeat the info? Come to this session to find out the answers to these questions and more.
- **What:** Career and Professional Development Event
- **When:** Friday, January 28, 2022. 4 - 5 PM.
- **Where:** Synchronous in-person (in the ESS suite - CENT 2080) and virtual via Zoom ([https://goto.unm.edu/esszoom](https://goto.unm.edu/esszoom))
- **Presenter:** ESS’s very own Nada Abdelhack - Job & Internship Coordinator
- RSVP is preferred but not required. RSVP will get you week before and day before email reminders. RSVP for EACH desired session at [https://ess.unm.edu/events](https://ess.unm.edu/events) > January or our succESS app ([https://success.unm.edu/events](https://success.unm.edu/events)).

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**Career and Professional Development Event**

**Writing Résumés & Cover Letters**

Friday, January 28, 2021
4 - 5 PM

Synchronous in-person (@ ESS - CENT 2080)
and virtual via Zoom
([https://goto.unm.edu/esszoom](https://goto.unm.edu/esszoom))

**RSVP** (preferred but not required)

or

[ess.unm.edu/events](https://ess.unm.edu/events)

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- **Join one of our Semester Long Programs!**
  - Many of these programs do NOT have GPA or citizenship requirements.
  - **Mentoring:**
    - Have a STEM Professional as a Mentor in our [STEM Mentoring Program](https://ess.unm.edu/events)
    - Be a Peer-Mentor in our [Peer Mentoring Program](https://ess.unm.edu/events)
  - **Internships:** Join one of our School of Engineering Internship Programs
  - **Research:**
    - No matter your experience, YOU are ALREADY a researcher, so why not make it official and join our [Student Research Experience Program](https://ess.unm.edu/events)?
- Do you want to **GIVE BACK** to the community, **EARN CREDIT**, and **GAIN RESEARCH EXPERIENCE** all at the same time?! If you said “YES,” then join [EPICS @ UNM](https://outlook.office.com/mail/inbox/id/AAQkADJiYjc0NTFmLTY0MWEtNGQ5NC1hZjFmLTY0NjQ2ZjgwZjcxMwAQAIBBfRy6lU4JlJ7dR0yVCEk%3D) Course/Program for Spring 2022.

**Semester-Long Engagement Opportunities**

- **MENTORING**
  - **BE a mentor**
    - to our incoming students in their transition into the University of New Mexico, the university setting, and Albuquerque.
  - **HAVE a mentor**
    - who is a STEM Professional working in the field to build your network and receive guidance and support.

- **INTERNSHIPS**
  - Getting real-world experiences leads to your satisfaction with your undergraduate journey. Gain valuable hands-on experience while making professional connections.

- **RESEARCH**
  - **EPICS @UNM**
    - to give back to the community, earn credit, and gain research experience all at the same time!
  - **Student Research Experience Program**
    - to get hands-on research experience to understand how your courses fit in to real-world applications.

Many are open to pre- and full majors and have no citizenship or GPA requirements.

**ENGINEERING STUDENT SUCCESS CENTER**

For more information, or to apply, visit: [https://ess.unm.edu/programs/current-students](https://ess.unm.edu/programs/current-students)

- **ESS Spring Line-Up**
  Visit [https://ess.unm.edu/events](https://ess.unm.edu/events) for more info.
Reminders:

- Join us in the Spring 2022 semester for YOUR CHANCE to win a gift card!
  We award winners based on most attended (with bonus points for providing feedback). Attend our sessions to WIN a gift certificate, GAIN experience, BUILD your skillset, and ENHANCE your resume!

- Check out our ESS Resource pages!
https://ess.unm.edu/resources/index.html
These include everything from academic support and career development, to behavioral health and getting into research and goal setting.

**Other ESS Center/SOE news and information:**

- **Quick Takes from the Dean - Week of December 20, 2021**
  - Carroll selected for ACS 2021 Class of Influential Researchers award
  - Two teams win $50K in prize money in biodesign course competition
  - UNM’s SMILAB develops marine and underwater smart sensing in NSF/ONR project
  - UNM inventor elected 2021 Fellow of the National Academy of Inventors
  - Inspirational grad: Computer science student travels across the globe for UNM

**Job/Research Opportunities/Scholarships**

*(Graduate Students – see our page dedicated to additional funding and job opportunities for you: [https://ess.unm.edu/programs/current-students/for-graduate-students.html](https://ess.unm.edu/programs/current-students/for-graduate-students.html)*)

*(See Previous Announcements below for additional opportunities)*

**Scholarships**

- Please visit ESS Scholarships for a full list – many are available to all, regardless of citizenship status:
  - Internal: [https://ess.unm.edu/programs/current-students/scholarships/internal.html](https://ess.unm.edu/programs/current-students/scholarships/internal.html)
  - External: [https://ess.unm.edu/programs/current-students/scholarships/external.html](https://ess.unm.edu/programs/current-students/scholarships/external.html)

**Job/Research Opportunities**

- **Need help with a Resume or Cover Letter?** We’ve got you covered. Please reach out to our very own Nada Abdelhack, our Job and Internship Placement Coordinator. Email: esscareers@unm.edu, Phone: 505-277-1403.

- Please visit ESS Internships and Jobs for a full list – some are available to all, regardless of citizenship status

  This includes our SPSP Internship Program. Are you a Junior, Senior, or Graduate student in an Engineering or Computing field? Learn more at [goto.unm.edu/internships](https://goto.unm.edu/internships) Students are required to participate 12 weeks, 15 hours per week and will receive a stipend. Questions about the SPSP Internship Program? **Contact Nada Abdelhack at esscareers@unm.edu, 505-277-1403**
UNM EVENTS/NEWS
Check back next week

COMMUNITY EVENTS/OPPORTUNITIES
Check back next week

PREVIOUS ANNOUNCEMENTS

OTHER OPPORTUNITIES AND NEWS FOR STEM STUDENTS:

SOE & STEM STUDENT ORG MEETINGS AND CAMPUS EVENTS
Check back next week

JOB/RESEARCH OPPORTUNITIES/SCHOLARSHIPS

Check out the ESS website pages dedicated to jobs, internships, and scholarships for more.

- Air Force Research Lab Scholars Program Summer 2022 Internships - Application Now Open!
  Information webinar DON'T MISS! REGISTER TODAY!

  The application is now open for summer 2022

  Application deadline: January 10, 2022, midnight CST

  To find out more, go to https://afrlscholars.usra.edu

  Webinar information will also be available on the AFRL Scholars website at https://afrlscholars.usra.edu
If you have any questions, reach out to **AFRL-Scholars@usra.edu**

- **Students who are looking for funds for the 2022-2023 school year…**

P.E.O. (Philanthropic Educational Organization) is an organization with 6,000 chapters and 230,000 women members in the United States and Canada.

The scholarships below are offered by the state of New Mexico’s P.E.O. Chapter.

These scholarships are for female residents of New Mexico, they are merit based and require full-time status at an accredited institution (like UNM). The application process begins with P.E.O chapter sponsorship. That sponsorship must be applied for before or during the month of September 2021. For information about chapter sponsorship, contact P.E.O. Chapter AD before or during September 2021 at: [newmexicopeochapterad@yahoo.com](mailto:newmexicopeochapterad@yahoo.com).

Apply for chapter sponsorship before the end of September 2021. Scholarship applications are due January 22, 2022. Scholarship recipients will be awarded for the 2022-2023 school year with funds made in 2 payments to the university at the beginning of each semester.

<table>
<thead>
<tr>
<th>Scholarships:</th>
<th>Delilah Williams Scholarship</th>
<th>New Mexico State Women’s Scholarship</th>
<th>Jean Boswell Foundation Scholarship</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Requirements:</td>
<td>At Freshman or Sophomore level for the 2022-2023 academic year at a NM institution.</td>
<td>At Junior or Senior level for the 2022-2023 academic year at any four-year college.</td>
<td>At Junior or Senior level for the 2022-2023 academic year at any four-year college.</td>
</tr>
<tr>
<td>Judging Criteria:</td>
<td>Scholastic ability, participation in school and community activities, potential to succeed.</td>
<td>Scholastic ability, participation in school and community activities, potential to succeed.</td>
<td>Scholastic ability, participation in school and community activities, potential to succeed.</td>
</tr>
<tr>
<td>Scholarship renewable:</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Amount of scholarship:</td>
<td>A minimum of $2,600.</td>
<td>A minimum of $2,600.</td>
<td>A minimum of $2,600.</td>
</tr>
<tr>
<td>Payment of scholarship:</td>
<td>Paid directly to the institution in two equal installments, one each semester.</td>
<td>Paid directly to the institution in two equal installments, one each semester.</td>
<td>Paid directly to the institution in two equal installments, one each semester.</td>
</tr>
<tr>
<td>Other qualifications:</td>
<td>Must be admitted to the institution to apply.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deadline:</td>
<td>January 22</td>
<td>January 22</td>
<td>January 22</td>
</tr>
</tbody>
</table>
Additional Loans and Scholarship Opportunities for Women:

For more information about the Philanthropic Educational Organization for women and their scholarships/loans, please visit their website at [https://www.peointernational.org](https://www.peointernational.org) and search under “P.E.O. Projects.” For questions on these scholarships or loans contact newmexicopeochapterad@yahoo.com.

- **EERE Robotics Internship Program: Now Accepting Applications**
  Apply Now!

  **Deadline:** Application and recommendations are due January 25, 2022, 11:59 PM EST.

  The U.S. Department of Energy (DOE) Office of Energy Efficiency & Renewable Energy (EERE) **Robotics Internship Program** is a 10-week summer internship program for students majoring in a field related to robotics. The program provides opportunities for high school seniors, undergraduate and graduate students and postgraduates to intern at federal national laboratories throughout the United States.

  **Why should I apply?**
  You will receive:
  - Hands-on experience in development of future robotics technical, engineering, and advanced manufacturing technologies
  - Development of professional networks with leading scientists and subject matter experts
  - Identification of career goals and opportunities
  - Benefits include
    - Stipend starting at $700/week
    - Travel reimbursement up to $2,000, if eligible
    - Housing allowance of $150/week, if eligible
    - Training/Research allowance up to $250

  **Eligibility**
  - Be a U.S. citizen
  - Be at least 18 years old by May 1, 2022.
  - Be a high school senior, undergraduate or graduate student, or recent graduate of an accredited institution of higher education majoring in science, technology, engineering, or mathematics discipline related to robotics and/or manufacturing.

  **For more information**
  Contact us at [AMO.Internships@orise.orau.gov](mailto:AMO.Internships@orise.orau.gov).

**UNM EVENTS/NEWS**
*Listed in Chronological Order*
(Repeat/Continuous opportunities are listed below Jobs/Research Opportunities/Scholarships)
*Check back next semester for new information.*

*Check back next week*

**COMMUNITY EVENTS/OPPORTUNITIES**
*Check back next week*

We hope to see you around.
In Solidarity,
Yadéeh E. Sawyer, Ph.D. (she/her/ella)

Retention Program Specialist (UNM Alumni; Staff Council Grade 12 Rep)
Green Zone and Dream Zone Certified
UNM - Engineering Student Success Center - Room 2095
yadeeh@unm.edu
505.277.9151

Stay informed through our app: succESS

ESS Webpage: ess.unm.edu
Tutoring | Scholarships | Mentoring | Undergraduate Research | EPICS | Internships and Co-Ops | Engineering Ambassador | Academic Success Workshops & Special Events for Engineering and Computer Science Students

ESS social media @UNMESSCenter

Events and Workshops: ess.unm.edu/events

Semester Long Programs:

- **Mentoring:**
  - Get a Mentor who is a STEM Professional
  - Be a Peer-Mentor
- **Research:**
  - Student Research Experience Program
  - EPICS (Engineering Projects in Community Service) @ UNM

Want to know about other STEM related opportunities? Join our listserv: UNM_STEM-L

ESS is located on the 2nd floor of the Centennial Engineering Center #2080
MSC01 1145; Building 112 (UNM Campus Map)