

Introduction to **FREE Online
Professional Development
Courses Offered by the
UNM STEM-H Center**

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Courses

[Available July 1, 2017](#)

- Research Challenge Bootcamp
- Managing Local Research Competitions
- Research & Ethics in Student Research

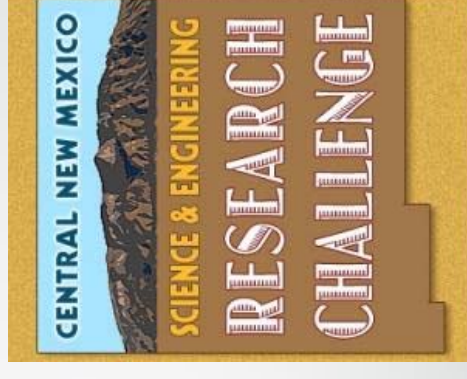
[Coming Soon!](#)

- Project Management for STEM Educators
- Preparing your Students for Research-Focused Competitions

Research Challenge Bootcamp

Audience: Teachers, Students, Mentors

- Covers the 2017-2018 ISEF rules, forms, deadlines, competition dates, etc. Highlights any changes from previous year's rules/forms.
- Activities to learn/review what good protocol paperwork looks like, understanding how to do a thorough review & provide constructive feedback to students.
- Includes training for schools that wish to field their own Scientific Review Committee (SRC)/Institutional Review Board (IRB)



- **CENTRAL NM REGION:** Completion of either the in person or online course by at least ONE person from each school planning to send students to the Regional Research Challenge is **MANDATORY**.
- This workshop is open to educators/competition coordinators from outside the Central NM region. *However, such participants will need to be aware they need to consult with their regional fair director for rules & deadlines specific to their regional competition.*

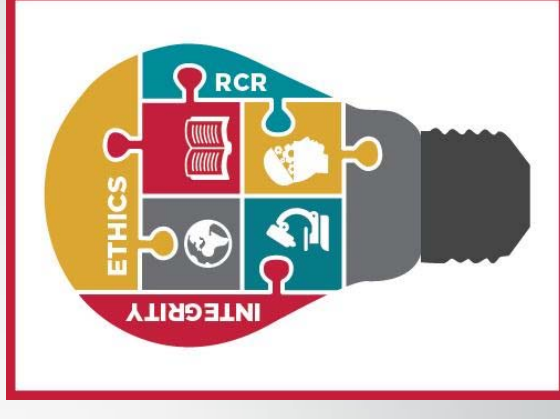
Safety & Ethics in Student Research

Audience: Teachers, Students

- This online course offers training and resources designed to help you and your students *identify, clarify, and address safety & ethics challenges* that frequently arise when designing, conducting, or reporting research...and *applies to research done in the classroom as well as projects taken on by students outside of class.*

Includes

- Responsible Conduct of Research
- Human Protections
- Animal Protections



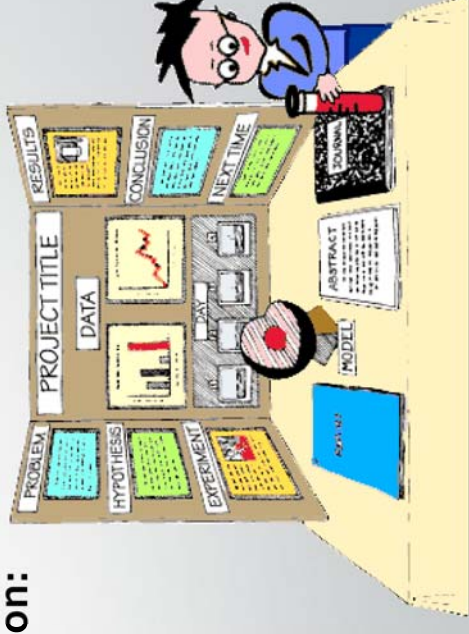
Managing Local STEM-H Competitions

Audience: Teachers, Administrators, Other volunteers helping to coordinate local competitions

Whether you've been managing a local STEM-H program/competition for years or are just starting out, this training is for YOU!

Covers the basics of running a STEM-H program/competition:

- handling protocols/paperwork
- recruiting judges
- fund & "friend" raising
- set up logistics
- the importance of planning ahead (...way ahead!)
- preparing for "Plan B's"
- and more!



How to Sign Up

- Visit our website stemed.unm.edu
- Click on STEM-H Center Workshops for a full list of workshops currently offered.
- Click on individual workshop and you will be redirected to the registration page

The screenshot shows the UNM STEM-H Center website. At the top, there is a navigation menu with links for Home, Contact, Resources, Calendar, About, Programs, and the UNM STEM-H Center logo. Below the menu, there are several program listings under the heading "Our Programs":

- Central New Mexico Science & Engineering Research Challenge**: Register · Deadlines · Resources
- Science Olympiad**: Register · Deadlines · Resources
- Junior Science and Humanities Symposium**: Register · Deadlines · Resources
- UNM STEM-H Center Workshops**: Register · Deadlines · Resources

Below the program listings, there are three sections: "How You Can Help" with a "Donate" button, "Volunteer" with a "Volunteer" button, and "Connect" with "facebook", "twitter", and "Join Our Email List" buttons. A "Twitter" section is also visible on the right side of the page, listing recent tweets and a "more" link.

How to Sign Up

- **1-2 days after submitting the registration form, you will receive an email from “Instructure Canvas” with a link to the course**
 - NOTE: if you register before the course is available, you will receive the email AFTER the course availability date
 - If you do not see the email in your inbox, check your spam/junk folder
- **You need to **ACCEPT** the invitation and **REGISTER** with Canvas in order to participate in the class (and receive credit for completing!)**
- If you have previously registered with Canvas you may simply login with your username and password

How to Sign Up

The screenshot shows the Canvas LMS interface for a course titled "Manage Local Research 101". At the top, a navigation bar includes "Home", "Announcements", "Discussions", "Pages", "Files", "Quizzes", "Modules", "Assignments", "Grades", "People", "Syllabus", "Outcomes", "Conferences", "Collaborations", and "Settings". A dark sidebar on the left contains icons for "Account", "Dashboard", "Courses", "Calendar", "Inbox", "Commons", and "Help".

The main content area displays a notification: "You have been invited to join Managing Local Research Programs and Competitions as a student". Below this notification are two buttons: "Decline" and "Accept". A blue arrow points from the "Accept" button to a blue-bordered box containing the text: "Click on 'Accept' and you will be redirected to the registration process for Canvas".

Below the notification, the course structure is visible, including sections for "Welcome", "Course Overview", "Discussions", "Introduction", "Module 1", "Why Research or Engineering Projects?", "What's In It for Them (WITT)?", "Science as a Way of Getting It Less Wrong", "CCSS Considerations", "NGSS Considerations", and "Thinking Through Your Program". Each section has a green checkmark and a gear icon.

At the bottom, a "Course Status" panel includes buttons for "Unpublish", "Published", "Import from Commons", "Choose Home Page", "View Course Stream", "New Announcement", and "View Course Analytics". A "Coming Up" section indicates "Nothing for the next week" and includes a "View Calendar" link.

Online Course Format

- Modules
- Self-paced
- Users can go through the modules in order and/or select individual modules
- Bootcamp does have a post-test (*req'd passing grade of 80% for Central NM teachers who wish to participate in Research Challenge*)
- Canvas keeps track of how long users spend in each course. PD certificates are sent and credit hours are indicated on the certificate based on the time user spent in the course.

Canvas Login Page: <https://canvas.instructure.com/login/canvas>

Other **FREE** Resources Available from the **STEM-H Center**

In-person Workshops

- **Research Challenge Bootcamp**
 - September 9, 2017
- **Project Management for STEM-H Educators**
 - October 7, 2017

- This workshop is based on the model developed for the Society for Science & the Public's Teacher Fellows Program which was built upon the idea that *empowering teachers with Project Management skills would better prepare them to manage student research programs and participation in STEM competitions as well as to better manage the huge demands on their time.*

Registration will be available late summer...sign up for our [newsletter](#) and be notified when registration is open!

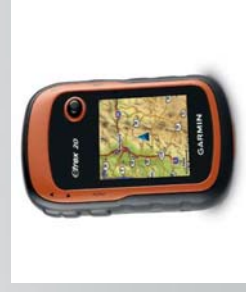
Other **FREE** Resources Available from the **STEM-H Center** Student Research Bootcamps

- We have partnered with Explora Science Center whose awesome educators are facilitating the Student Project Development Bootcamp.
 - Lots of tools for you to use as you do your research or engineering project!
 - Hands on activities will help you understand the process of inquiry, choose a topic, and begin to put your project plan together.
 - There will also be a review of the 2017-2018 Intel International Science & Engineering Fair Rules (& Forms!) for Pre-College Research as well as all the important deadlines for the Central NM Science & Engineering Research Challenge.
 - Geared predominantly for middle school students, though the workshop material is accessible to 5th graders and high school students as well.
- **2-3 sessions will be offered in September, dates TBA**

Other **FREE** Resources Available from the **STEM-H Center**

Scientific Equipment Lending Library

- Check out small scientific items for use in classroom and/or home research projects!
- Open to teachers, students, community groups, afterschool clubs, etc.
- Two-week check out period (*borrower picks up/drops off equipment at UNM*)
- View the full catalog online: <http://stemed.unm.edu/sites/all/docs/Catalog.pdf>



Other **FREE** Resources Available from the **STEM-H Center**

New Mexico STEM-H Connection Website

- Connect with real people working, learning and living STEM-H in your community
- Explore and share New Mexico's dynamic STEM-H programs
- You can:
 - Find volunteers (classroom presenters, speakers, judges, etc.)
 - Search for programs (search by content area, location, age/grade level, date)
 - Locate resources
 - Explore STEM careers



<http://nmstemh.org/>

QUESTIONS

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