Science and Math Resources for Students

Learning Resources

**Science Resources for Students** (Michigan State University’s Learning Resources Center).
Links to numerous sites with resources for comprehending concepts in science texts and lectures. Covers biology, anatomy, chemistry, organic chemistry, and physics, plus other useful sites.
https://www.msu.edu/~lrc/ScienceResources.html [1]

**Purdue University Division of Chemical Education.**
Contains links for both students and faculty, including help in General Chemistry and Organic Chemistry and lecture demonstration materials in a broad spectrum of scientific topics. A test bank of questions for instructors only is limited to authorized users, with information provided on how to gain authorization.

**Professor Freedman’s Math Help** (Camden County College, Blackwood New Jersey).
This site addresses the learning needs in mathematics of the community college adult learner. Useful for both students and teachers, the site offers math tutorials, homework assignments, video snippets on math topics, information about learning styles, and much more.

**Web Interface for Statistics Education, WISE** (Claremont Graduate University).
WISE provides free interactive tutorials on key statistical concepts (sampling distributions, the central limit theorem, hypothesis testing, statistical power) using applets with guided exercises. Also links to a wide range of free statistical resources on the Internet for students and teachers.
http://wise.cgu.edu/ [4]

Undergraduate Research Information

**Web Guide to Research for Undergraduates (WebGURU)**, funded by the National Science Foundation Division of Undergraduate Education’s Educational Materials Development Program.
An extensive and well-organized student guide, with information and links to electronic resources for undergraduate students participating in research in science, technology, engineering, and/or math. Includes a wide array of material ranging from the technical aspects of undergraduate research to such issues as research integrity, intellectual property,
mentoring, and scholarships/fellowships. Has case studies, a discussion forum, and much more to enhance student success as undergraduate researchers.

**The Journal of Young Investigators: An Undergraduate, Peer-Reviewed Science Journal.** Founded in 1997, this online journal edited and run by undergraduates offers a publishing opportunity for undergraduate researchers in the sciences. Articles are organized in three areas: Physical Sciences and Mathematics, Biological and Biomedical Sciences, and Basic Engineering Sciences.

**Reinvention: A Journal of Undergraduate Research** (Oxford Brookes University and the University of Warwick). An online, peer-reviewed journal launched with the September 2007 issue, dedicated to publishing undergraduate student research worldwide.
http://www2.warwick.ac.uk/fac/cross_fac/iatl/reinvention [7]

**Research Experiences for Undergraduates, REU Program,** (National Science Foundation). The REU Program supports undergraduate research in any of the areas of research funded by the National Science Foundation. This site provides access to funding opportunities and deadlines, plus guidelines for preparing a proposal and managing an award.

**CIRRUS, Chemistry Internet Resource for Research by Undergraduate Students.** Information and links pertinent to undergraduate research in chemistry.
http://cirrus.chem.plu.edu/ [9]

**Undergraduate Research at Michigan State University.**
http://URCA.msu.edu [10]

**VENTURE.** A database of research, scholarship, and creative opportunities for MSU undergraduate students.

Undergraduate Research Conferences

**Undergraduate Research Conferences:**

**National Conference on Undergraduate Research (NCUR).** Supports undergraduate research, scholarship, and creative activities in all fields of study. Sponsors an annual conference with published proceedings. NCUR has no homepage but conference proceedings are published by U. of North Carolina at Asheville.
http://www.cur.org/conferences_and_events/student_events/ncur/ [12]

**Council on Undergraduate Research (CUR) Posters on the Hill.** Sixty competitively selected undergraduate student researchers and their advisors display their research posters at the U.S. Capitol and visit with members of Congress to convey the importance of undergraduate research. An annual event.
http://www.cur.org/conferences_and_events/student_events/posters_on_the_hill/ [13]
Meeting of Minds (MOM).
Since 1993, this annual conference in Michigan, a collaborative effort from University of Michigan-Flint, University of Michigan-Dearborn, and Oakland University, permits undergraduate students to present their research and creative activities in presentations, posters, performances, and demonstrations. The meeting site rotates among the three schools on an annual basis.
https://umdearborn.edu/casl/684856/ [14]

University Undergraduate Research and Arts Forum (UURAF) at Michigan State University.
A spring conference that provides Michigan State undergraduate students with an opportunity to showcase their scholarship and creative activity.
http://urca.msu.edu/uuraf/ [15]

Back to top

These resources were compiled and annotated by Lois Rosen, Ph.D., Instructional Consultant for the Office of Faculty and Organizational Development, Michigan State University.