



[internet2 and videoconferencing
curriculum resources]

EDUCATION OUTREACH OPPORTUNITIES
THROUGH VIDEOCONFERENCING
TO IMPACT STUDENT LEARNING

2011-2012 FALL/WINTER/SPRING

www.edutech.nodak.edu/video/events



[content provider programs]

National Park Service

www.nps.gov/index.htm

KNIFE RIVER INDIAN VILLAGE HISTORIC SITE NHS

The national park site contains visible remnants of historic and prehistoric American Indian villages representative of the Northern Great Plains. Last occupied by the Hidatsa and Mandan in 1845, the 1,800-acre unit includes a visitor center, museum, film, bookstore, a full-scale furnished earth lodge, several miles of hiking trails and a full range of education programs.

Program cost: No cost

50-minute program

Contact: Craig Hansen,

Education Specialist

Phone: (701) 745-3300

E-mail: craig_hansen@nps.gov

PROGRAMS: Grade 4-8

Registration deadline is Sept. 16. To register, contact content provider.

Sept. 26-Sept. 30, 2011 (additional dates available upon request)

Life in the Hidatsa Earthlodge

Students will understand the basic construction of an earthlodge; identify who built and owned the earthlodge; understand and describe daily living in and around the earthlodge.

The Venerable Bison presents insight into the various uses of the bison. Students will learn how Native Americans relied heavily on the bison for food, clothing, shelter, tools, toys and even medicine.

NDSU - North Dakota Forest Service

www.ndsu.edu/ndfs

The ND Forest Service Information and Education Program helps to foster stewards of all ages with the skills to make wise decisions about conservation and use of our forestry and related natural resources.

Program cost: \$25/class per 50-minute program

Contact: Glenda Fauske,

Education Coordinator

Phone: (701) 228-5446

E-mail: glenda.fauske@ndsu.edu

PROGRAMS: Grades K-4

Registration deadline is Oct. 3. To register, contact content provider.

Oct. 10-14, 2011 (additional dates available upon request)

Smokey Bear and Living with Fire

Students will learn about the three elements of the fire triangle and explain how eliminating one or more can help prevent or control a fire. An accompanying "Project Learning Tree" (PLT) hands-on activity will be sent to participating teachers prior to the video session.

State Historical Society of North Dakota

<http://history.nd.gov>

The State Historical Society in Bismarck, N.D., has a wealth of

resources available for students to learn about the history of North Dakota, its people and culture.

Program cost: \$25/class per 50-minute program

Contact: Erik Holland,

Curator of Education

Phone: (701) 328-2792

E-mail: eholland@nd.gov

PROGRAMS: Grades 2-6

Registration deadline is Dec. 1. To register, contact content provider.

Dec. 5-9, 2011 (additional dates available upon request)

The Capital of North Dakota is Bismarck (grade 3)

Students will walk through the history of the city of Bismarck from its beginning as a stop on building of the Northern Pacific railroad through building of the two capitals, politics of how Bismarck came to be the capital, and what North Dakota's first time capsule contained.

Early People in North Dakota

(grade 2)

Students will explore four hands-on stations in pre-tribal history of indigenous people in the area now known as North Dakota. Stations explore hunting, fishing, eating and living conditions of people in North Dakota about 12,000 years ago with another station on use of clays in making pottery.

Fur Trade (grade 4)

Fur trade focuses on the time period of 1750-1860 when European fur trappers and traders came to North Dakota.

Homesteading in North Dakota

(grade 4)

North Dakota was homesteaded in the late 1800s and early 1900s. Using galleries and photos, students will learn about life of the settlers coming to North Dakota to claim farmland or settle in towns. What was life like for kids during that time?

Native American Dwellings

(grade 4)

Students will learn about the oldest house in North Dakota that is approximately 2,000 years old.

Learning U.S. History Inside and Out (grade 4)

Students will revisit North Dakota history learned in grade 4 starting from one state's structure and explaining the settlement of the United States. For example, why people came to North Dakota reflects much of why people came to the United States.

Inventions, Innovations and Adaptations (grade 6)

(grade 6)

Students will see the main gallery at the State Historical Society in showcasing progression of inventions throughout history, how those inventions have adapted over time and innovations that came about because of demand.

COSI Live Surgical Suite: Total Knee Replacement

(grades 9-12)

www.cosi.org/educators/videoconferencing

Fifteen classrooms will have an opportunity to experience a live knee replacement surgery performed by an orthopedic surgeon from Mount Carmel Health System in Ohio. Students can ask questions of the surgeon and medical staff. Register early as spots fill quickly.

To register, contact EduTech at (800) 804-8550.

Cost: Fee structure according to participation.

Minnesota History Center

www.mnhs.org/ivc

PROGRAMS: Grades 4-6 (45 minutes)

Cost: \$120 per program

To register, contact content provider.

Becoming Citizens of the Frontier: Lessons of a One-Room Schoolhouse

1900s Logging Camp: The Life of a Lumberjack

Mission Expedition

Inventions That Changed the Nation

Center for Puppetry Arts

www.puppet.org

The Center for Puppetry Arts uses the latest technology to offer nationwide Distance Learning Programs via videoconference for Pre-K to 12th grade, including teacher workshops and demos. The programs infuse the arts with science, social studies and language arts and other disciplines to create a dynamic interactive virtual classroom for a unique field trip experience. Programs and downloadable study guides complement national curriculum standards in all areas.

PROGRAMS: Grades Pre-K-12

(45-50 minutes)

For program fees or to register, contact EduTech at (800) 804-8550. Fee structure varies according to participation.

October 2011

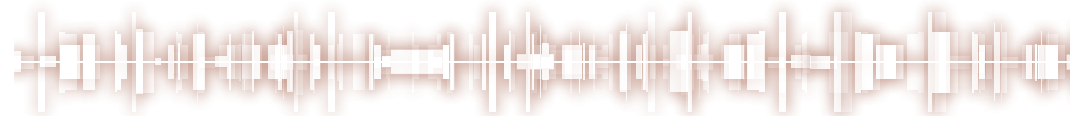
Spiders (grades 1-6)

The puppet and learning activities for this program can be modified to suit the participating age group. Students build a Spider Marionette while participating in learning activities.

November 2011

Native Americans (grades 3-6)

Students learn about three different Native American cultures (Eastern Woodlands, Plains, Southwest) while they create their own Hopi Kachina hand puppet. Activities focus on use of natural resources from the different regions and how these resources shaped their lives in regard to clothing, shelter and even transportation. Students also discuss Kachinas and the Hopi culture in general. This is a great arts and social studies lesson all in one.





December 2011

Gingerbread Boy Holiday Program (grades Pre-K-2)

Students witness the classic tale of "The Gingerbread Boy" come to life with brilliantly colored shadow puppets. The story is narrated and performed during the first part of the program. Led by the program presenter, students make their own gingerbread boy shadow puppet during the second half of the program. They also participate in a learning activity about the ingredients in gingerbread. This is a popular holiday program. Book early!

January/February 2012

Mexico (grades 3-6)

Students learn about the history and culture of Mexico and its people through the art of the mask. Learning activities center around the story of the flag of Mexico and ancient Aztec culture, ancient pictographs of indigenous animals of the New World, and the Spanish influence after the landing of Cortez. Students also are introduced to a modern holiday that ties the two cultures together: Dia de los Muertos.

Exploring Africa (grades 2-3)

Students will build a giraffe rod puppet while learning about Africa. They will look at different types of homes, people, environments and animals of the Savanna. Animal habitats and protection from predators will be discussed. Great for multicultural units.

April 2012

Consider this event to kick off Earth Day.

Rainforest (grades 2-3)

Students will construct a flying tropical bird rod puppet. They will participate in learning activities about the location of the tropical rainforests and their relationship to the equator and tropic lines, various animals found in the rain forest and the different layers in the rainforest.

May 2012

Consider this event to celebrate "Science Month."

Butterflies (grades K-2)

Each student will construct a butterfly marionette while participating in learning activities about the lifecycle of the butterfly, what makes a butterfly an insect, and coloring and camouflage. Video clips and photographs of the different stages in the life of a butterfly are included. This is a great arts and science lesson all in one.

Also consider participating in one of these live puppetry shows:

Captain Healthy and Safety Dog

The Gingerbread Program

Contact EduTech for details.

October 2011-May 2012

Mote Marine Laboratory-SeaTrek

www.seatrek.org

SeaTrek brings high-energy, multimedia science programming into the classroom using videoconferencing and Internet technology. Programs feature real scientists working in the field with interviews showing how their interests led them to their careers. Each program is supported by a free, downloadable, companion curriculum, aligned with National and Sunshine State Science Education Standards. SeaTrek program offerings range from grades Pre-K through 12 as well as professional and general audience listings.

PROGRAMS: Grades 5-12

(30-45 minutes)

To register, contact Edutech at (800) 804-8550.

Cost: Fee structure varies according to participation.

Sea Turtles (grades 5-7)

Manatees (grades 5-7)

Sealife Rescue (grades 6-12)

Coral Reefs (grades 8-12)

Sharks (grades 5-9)

Dolphins (grades 8-12)

Discovery Reef (grades 5-7)

Live ... From the Heart

To register, contact EduTech at (800) 804-8550.

Cost: Fee structure according to participation. Includes classroom materials.

North Dakota classrooms will have an amazing field trip opportunity. The Museum of Science and Industry, Chicago, will take you live to the operating room at Advocate Christ Medical Center. While the surgical team performs an open heart bypass procedure, students can ask questions about the surgery, learn how to keep a heart healthy and find out what it takes to have a career in the operating room. Don't miss this opportunity to talk directly to professionals who take care of hearts every day. Limited participation, register early.

The Mariners' Museum

www.marinersmuseum.org

The Mariners' Museum is in Newport News, Va. Its educational reach extends far beyond its physical doors. Just as man has used the sea to journey around the world for thousands of years, The Mariners' Museum uses interactive videoconferencing to offer programming to schools across the country and around the globe. Register now to sail into the educational adventures of the Mariners' Museum.

PROGRAMS: Grades K-12

To register, contact EduTech at (800) 804-8550.

Cost: Fee structure varies according to participation.

Age of Exploration (grades 1-12)

Clash of Armor (grades 4-12)

Riding in a Log Canoe (grades K-3)

Pirates (grades 2-12)

Sailing into Thanksgiving (grades K-2)

Captive Passage: Investigating the Transatlantic Slave Trade (grades 4-12)

Titanic (grades 4-12)



[professional development programs]

Collaborative Classroom Video Experiences

Summer 2012

EduTech is excited to offer K-12 teachers the opportunity to videoconference and collaborate with other teachers from locations around the globe. Collaborative Classroom Video Experiences is an intense, weeklong immersion in activities focusing on 21st century skills. This is a great experience for teachers, principals, technology

coordinators and superintendents. Not only will participants have an opportunity to learn new skills and make contacts with other teachers, but they also will earn two graduate credits for their time. No prior videoconference experience is necessary. This training will enhance all skill levels. For more information, contact Kari Sauer at (800) 804-8550.

[collaborations/experts]

Consider the following two events to celebrate reading month:

Read Across North Dakota

(grades K-12)

Feb. 15-16, 2012

Now in its seventh year, Read Across North Dakota (RAND) is modeled after the international Read Around the Planet (RAP) event but includes only K-12 classes in North Dakota. If you and your students have not participated in either event, then consider RAND a wonderful way to get started. And, if you'd like to step up to RAP but aren't sure if you'd be ready, then register for both events and consider using RAND as a great way to prepare your class for the RAP event later in February. Either way you're providing your students with an awesome way to celebrate reading and literacy with another classroom.

To register, contact EduTech at (800) 804-8550 by Jan. 25, 2012.

Cost: No cost to participate.

Read Around the Planet

(grades K-12)

www.twice.cc/read

Feb. 22 to March 7, 2012

Students are invited to participate in the 11th Annual Read Across the Planet international event

that provides an opportunity for teachers and students around the globe to cross traditional classroom boundaries in celebrating literacy and reading. The event is interactive via live videoconference.

To register, contact EduTech at (800) 804-8550 by Jan. 9, 2012.

Cost: No cost to participate.

Megaconference Jr.

www.megaconferencejr.org

May 2012

Megaconference Jr., now in its ninth year, is a project designed to give students in elementary through secondary schools around the world the opportunity to communicate, collaborate and contribute to each other's learning in real time using advanced multi-point video conferencing technology. "Video jockey" teams and their interactive partners develop and share activities focused on both academic and cultural issues. The teams collaborate with geographically diverse peers on authentic learning activities, thus building international cultural awareness. Participants viewing the day's events can address questions to the presenters through a special Megaconference Jr. social networking site.

Megaconference Jr. addresses local and national curriculum standards in multiple subject areas. It helps students and teachers develop the capacity to effectively utilize high-speed networks, video-conferencing and other emerging technologies to enhance learning experiences.

Watch the EduTech website for event date, updates and registration. If your students would like to video jockey contact Kari Sauer at (800) 804-8550.

State Historical Society of North Dakota

North Dakota Homestead Simulation

Available in OpenSim for grades 4-12

Participate in the State Historical Society of North Dakota's virtual environment to teach an aspect of North Dakota history. In the simulation your students will live the life of 19th century homesteaders on the Northern Plains. This safe, student-friendly collaborative study tool designed for virtual environment, enhances your history curriculum using 21st century skills in a fun way. Your class will build homes, select, plant and harvest crops and respond to various weather and other environmental conditions, making choices along the way. When Abraham Lincoln signed the Homestead Act in 1862, he could not have envisioned students in North Dakota accessing that primary

source and others to inform choices their avatars could make. North Dakota Homestead Simulation may be just what you have been looking for to focus your students on learning in a different new way.

Go to www.history.nd.gov/homestead to register online and suggest possible times. Following that call, in-class preview potential, providing advance instruction, and supplying student and teacher guides and passwords can be coordinated.

Seeing is believing ...

(grades 4-12)

www.ndsu.edu/em_lab

Need a \$300,000 tool, but your district doesn't have those kinds of funds? For no cost, you can harness the power of a scanning electron microscope in your classroom by using the NDSU Electron Microscopy Center's JEOL JSM-6490LV to look at materials magnified as much as 20,000 times or more. Students can run the SEM over the Internet using a PC and mouse after installing simple free software. You may choose specific samples to fit your curriculum or explore the interesting ones provided for demonstration.

Contact: Scott Payne at (701) 231-8435 or scott.payne@ndsu.edu or Jayma Moore at (701) 231-8435 or jayma.moore@ndsu.edu. They would be happy to answer questions or help schedule your virtual microscopy session. To schedule, contact the

lab two weeks in advance to make arrangements. Call (701) 231-8435 or e-mail at ndsu.em.center@ndsu.edu. Cost: No cost to K-12 schools for the use of this instrument.

Virtual Cell

(grades 7-12)

<http://vcell.wowiwe.net>

The Virtual Cell is a virtual multi-user space where students "fly" around and practice being cell biologists in a role-based, goal-oriented environment. For more information on vcell and related virtual environment projects created by NDSU WWWIC, contact Brian Slator at (701) 231-6124 or by e-mail at slator@cs.ndsu.edu.



EVENT SCHEDULES AND UPDATES WILL BE POSTED AT WWW.EDUTECH.NODAK.EDU/VIDEO. FOR QUESTIONS, CONTACT YOUR EDUTECH REGIONAL ITS OR EDUTECH OFFICE TOLL FREE AT (800) 804-8550.



[Internet2/Videoconference partners]



NDSU

Contact **Kari Sauer**, *Administrative Assistant and Videoconferencing* at 800.804.8550 or kari.sauer@sendit.nodak.edu.

Contact **Tabitha Lang**, *Manager of Professional Development and Outreach* at 701.793.5757 or tabitha.lang@ndsu.edu.

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