You already know that the University of Northern Iowa offers a great education, but did you know that we also offer great outreach and professional development related to Teaching and Learning? We encourage you to contact us for assistance, and look forward to working with you.

**Outreach & Professional Development**

**Kindergym:** Kindergym was developed around the philosophy that young children benefit by being exposed to a variety of activities that require the utilization of an array of physical, social, and cognitive skills ([http://www.uni.edu/coe/hpels/Partnerships_Projects/kindergym.shtml](http://www.uni.edu/coe/hpels/Partnerships_Projects/kindergym.shtml)).

**Center for Economic Education:** The Center for Economic Education is part of a national program that supplies K-12 teachers with educational support to improve economics education in their classrooms ([http://www.cba.uni.edu/cee/](http://www.cba.uni.edu/cee/)).

**Business Education Program Community Involvement:** Business Education students are available as a resource to the local community. For example, Business Education students have judged regional high school student organization competitions, taught keyboarding at Waterloo’s Black Hawk Elementary, and taught Junior Achievement units in local schools ([http://www.cba.uni.edu/dbweb/pages/business/business-k-12.cfm](http://www.cba.uni.edu/dbweb/pages/business/business-k-12.cfm)).

**Center for Energy and Environmental Education:** The Center empowers Iowans with the knowledge, experiences, tools, and inspiration needed to create a sustainable future for our communities’ responses ([http://www.ceee.uni.edu/](http://www.ceee.uni.edu/)).

**UNI/AEA 267 Regional Physics Olympics Competition:** The UNI Physics Department hosts high school students who apply basic physics principles in designing and constructing devices from everyday materials as they compete in five challenges: self-propelled catapult, mouse trap car, optical slalom, student-powered water heater and challenge problem ([http://www.physics.uni.edu/outreach/olympics.shtml](http://www.physics.uni.edu/outreach/olympics.shtml)).

**Regent’s Center for Early Developmental Education:** The Regents’ Center for Early Developmental Education focuses efforts on improving early childhood education (birth through 8 years) in Iowa and beyond ([http://www.uni.edu/coe/regentsctr/](http://www.uni.edu/coe/regentsctr/)).

**Technology Methods Lab (TML):** At the Technology Methods Lab, preservice and professional teachers practice using computing technology for teaching and learning. The TML works to create and explore models for technology-rich K-12 classrooms ([http://www.uni.edu/coe/irtsweb/services/labs_tml.shtml](http://www.uni.edu/coe/irtsweb/services/labs_tml.shtml)).

**UNI Assurance Plan:** The Teacher Education Program at the University of Northern Iowa provides an Early Years of Teaching Assurance Program to the school districts of Iowa. In short, if a school hires a UNI teacher education graduate and find that new teacher lacking in some aspects of their preparation to teach, UNI will work with the school and the new teacher to develop an implementation plan ([http://www.uni.edu/coe/_resources/assurance.html](http://www.uni.edu/coe/_resources/assurance.html)).

**Reading and Writing for Critical Thinking (RWCT):** The RWCT program is an initiative of the Open Society Institute, which promotes worldwide educational, social and legal reform, and the International Reading Association, a non-governmental organization of professional educators. These groups work in close collaboration with the 20 National Soros Foundations in participating countries ([http://www.uni.edu/coe/rwct/project/index1.html](http://www.uni.edu/coe/rwct/project/index1.html)).
UNI Overseas Placement Service for Educators: Offering services since 1976, the University of Northern Iowa Overseas Placement Service for Educators, a program area of UNI Career Services, connects international K-12 schools with certified educators year round (http://www.uni.edu/placement/overseas/).

The Science Center for Teaching, Outreach, and Research on Meteorology (STORM): STORM is a cooperative program between the National Oceanic and Atmospheric Administration and UNI. The Project seeks to initiate, support, and coordinate education, service, and research activities that relate weather information and conceptual models of the atmosphere to relevant user communities in Iowa and the Midwest (http://www.uni.edu/storm/).

Project SOAR: UNI is partnering with Princeton Review, Skills Tutor and the Military Impacted Schools Association (MISA) on Project SOAR (Student Online Achievement Resources) to provide resources for military parents and students to improve achievement levels in mathematics and literacy (Vicki.Oleson@uni.edu).

LitEDUNI: UNI hosts a literacy education virtual community called LitEDUNI for UNI literacy-education students, alumni and faculty to improve teaching, instruction and student learning. The site allows members to discuss issues and ideas and share methods and resources (http://liteduni.wikispaces.com/).

Regents’ Center for Early Developmental Education: The Regents’ Center for Early Developmental Education at UNI is partnering with Tri-County Head Start to improve the academic, social and emotional outcomes of children enrolled in Head Start. In particular, they will address teacher behaviors using strategies research has shown to improve children’s language development, academic performance, and social and emotional development (http://www.uni.edu/coe/regentsctr/).

Classic Upward Bound: The Classic Upward Bound Program develops collaborative relationships with students, parents, schools, and the community to provide services and support which will enhance the academic skills and motivation low income and first-generation students need to complete high school, enter a post-secondary institution, and ultimately obtain at least a Baccalaureate degree (http://www.uni.edu/eop/cub/index.htm).

Upward Bound Math and Science: The Upward Bound Math and Science (UBMS) Center provides students with an overview of careers available in math and science and the opportunities to enter a college or university to study math, science or a related field (http://www.uni.edu/eop/ubms/).

Reading Recovery: UNI is home to the University Training Center (UTC) for the Reading Recovery Program of Iowa. Reading Recovery is a nationwide program in which teachers provide daily intensive one-on-one reading instruction to first grade students reading below average. The center trains new Reading Recovery Teacher Leaders as well as provides training, support and professional development for the already implemented Reading Recovery system in the state (http://www.readingrecovery.org/index.asp).

AEA 267-UNI Science Kit Collaborative: UNI and AEA 267 have merged all of their elementary and middle school science kits, and acquired more, into one location. K-9 science teachers may reserve kits for use throughout the school year. UNI handles all of the check out, check in and kit refurbishment processing (Cherin.Lee@uni.edu).

ATEEC Fellows Institute (ATEC): ATEEC advances environmental technology education through curricula development, professional development, and program improvement in community colleges and high schools. The ATEEC Fellows Institute provides professional development workshops and disseminates curricular materials related to environmental and energy technology to high school and community college educators nationwide (Maureen.Clayton@uni.edu).
Outreach and Professional Development

**Biology Instructional Opportunities for Motivating Every Student (BIOMES):** BIOMES is a high school biology curriculum containing over 120 labs and activities. The activities and labs make strong and creative connections to everyday life. The activities employ the learning cycle as the instructional strategy (Lyn.Countrymen@uni.edu).

**Chemistry Resources & Instructional Strategies for Teaching All Learners (CRISTAL):** CRISTAL is a high school chemistry resource manual developed at Price Laboratory School. The manual contains over 100 activities/labs and employs the learning cycle teaching strategy (Jody.Stone@uni.edu).

**Geoscience Education for Motivating Every Student (GEOMES):** GEOMES is a high school curriculum program containing innovative labs for teaching students centered high school earth science. Developed at Price Laboratory School by a talented group of Iowa teachers, GEOMES uses the learning cycle instructional strategy to teach earth science in a relevant format (Jody.Stone@uni.edu).

**Inquiry Institute:** A one week institute offered by UNI and AEA 267 to explore teaching science using an inquiry approach. It focuses on what inquiry teaching is, learning theory in support of inquiry teaching/learning, and curricula that support inquiry teaching. The institute introduces teachers to the 5Es learning cycle, provided time for lesson preparation and peer teaching (Cherin.Lee@uni.edu).

**Interactive Constructivist Science Workshops:** Science workshops for teachers of children pre-K through 2nd grade consisting of seven workshop modules focusing on topics of physical science, including ramps and pathways, bubbles, water dynamics, cooking, air dynamics, spinning, and the physics of sound. Each 3-hour workshop provides principles of teaching, theoretical background, video examples of children in real classrooms engaging in the activities, and opportunities for teachers to experiment with classroom materials (Betty.Zan@uni.edu).

**Iowa Energy Education Outreach:** Outreach programs with games and activities to educate students about energy efficiency and renewable energy (available for grades 1-8) (Pat.Higby@uni.edu).

**Science Education Resource Center:** The Science Education Resource Center is a curriculum materials center on the UNI campus. It contains printed curricular materials such as science text books (K-12) and science activity guides as well as science kits from 5 different sources. It is utilized by both elementary and secondary science methods instructors and students, UNI student teachers who check out kits, and area teachers wishing to peruse text samples and kits before working on curriculum adoptions (Cherin.Lee@uni.edu).

**Sustainable Energy Education and Training (SEET):** SEET is a professional development project for community college and high school educators nationwide. The goal is to build the capacity of energy and environmental technicians to meet the challenges of sustainable energy in the 21st century workplace (Maureen.Clayton@uni.edu).

**The Iowa Stock Market Program:** A classroom program for Iowa students grades 4-12 that uses an integrated curriculum that emphasizes real-world mathematics applications from investing in stocks and mutual funds (Lois.Lindell@uni.edu).

**Annual Earth Science Teachers Update:** A day of content and pedagogical updates for teachers of Earth Science (Tim.Cooney@uni.edu).

**The UNI Physics and Science Education Professional Development and Outreach Instructional Technology Integration Program:** An instructional technology loan program for Iowa secondary science teachers who participate in UNI Physics and Science Education professional development programs. The first short-term loans are being made to teachers participating in the UNI PRISST program to provide much needed instructional technology and material support during professional development and classroom implementation (Lawrence.Escalada@uni.edu).
Outreach and Professional Development

Waste Reduction Workshop: Preventing the generation of waste in the first place is the highest priority for waste management. At this workshop, participants (K-12 teachers from a variety of disciplines) learn about reduction, life cycle analysis, and other waste-related issues (Susan.Salterberg@uni.edu).

Elementary Literacy Conference: UNI’s Price Laboratory School hosts the 41st Annual Beginning Reading Conference (http://www.vpaf.uni.edu/events/brc/index.shtml).

Earth Science Week Open House: An open house in the UNI Dept. of Earth Science to educate the public about the many components of the Earth Sciences. This will be held as a part of national Earth Science Week (James.Walters@uni.edu).

Geology of Iowa for Teachers short course: An intensive one-week short course held in the summer at UNI and geological sites in eastern Iowa. Teachers receive 2 credit hours while exploring the geology of Iowa though hands on activities in the field and the lab (James.Walters@uni.edu).

Project RAISE: UNI’s RAISE Project matches teachers to researchers for a summer of discovery, followed by an academic year of support by science education specialists (Dawn.DelCarlo@uni.edu).

Environmental Issues Instruction (EII): The EII program provides in-service training of K-12 teachers, classroom and field application and evaluation. Ecological foundations are investigated, questioned and analyzed (Carl.Bollwinkel@uni.edu).

General Science Programs: The UNI Museums offer a number of science-based programs to area educators and school groups free of charge. The programs include lecture, student participation, and hands-on learning, and are designed to enhance what students have learned about the topic at school (Diane.Schupbach@uni.edu).

M.E.S.S. (Museum Explorations through Science and Stories): M.E.S.S. is a monthly science-and-story based program offered free of charge to area daycare and preschool facilities by the UNI Museums. Children explore a science topic, add five words to their vocabularies, listen to books and stories, complete a project, and explore the Museum during their visit. New this year are M.E.S.S. Kits. They are designed to help teachers expand what was taught at the Museum, once back at in their classrooms (Diane.Schupbach@uni.edu).

UNI Museums Traveling Trunks: The UNI Museums offer a number of “Traveling Trunks” to area educators free of charge. The trunks include touchable specimens and other items, activities, background information, books, and other resources. They are designed to supplement what is being taught in the classroom, and the hands-on aspect helps to bring science to life (Diane.Schupbach@uni.edu).

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