

Challenger Learning Center of Colorado School Programs and Registration 2011



What We Do: For You, Your Students and the Community

Challenger Learning Center of Colorado (CLCC) integrates the excitement of space with age-appropriate programs to engage student imaginations. Hands-on simulations and other minds-on activities take students far beyond routine educational experiences and transport them to a world where learning is fun and teamwork is key! CLCC evokes creativity and stimulates a love for learning that translates back into interest and inspired achievement in the classroom and vision in life.

How We Help: Educational Excellence for District Needs and Goals

CLCC's K-12 Programs develop confidence and excitement while building a richer understanding of critical skills for tomorrow's academic and professional worlds. CLCC programs feature:



- **21st Century Learning Skills:** Preparation for a world yet to be imagined; real world challenges in unpredictable situations through collaboration, decision making, and problem solving.
- **Integrated Learning:** A variety of adventures span and combine a broad spectrum of curricula:
 - Science (both space and earth) - Mathematics - Technology
 - Communication - Geography - Art
- **Sequenced Learning:** Carefully crafted programs complement and build upon one another, from kindergarten through high school, maximizing learning and value.
- **Standards Alignment:** All programs are aligned with Colorado education standards.
- **Educator Resources:** All programs include 10 hours of unit-of-study lesson plans, supporting materials and thorough teacher training eligible for professional development credits.

And students have a blast while they learn!

Where the Excitement Happens: Three Ways to Participate

Educators can choose one, two or all three ways for students to benefit:

- **At CLCC** in north Colorado Springs: Classes come to CLCC facilities where Space Shuttle, Mission Control and Spacecraft simulators make missions vastly more stimulating than “just a field trip.”
- **Distance-Delivered:** Classroom-to-Mission Control connections over broadband Internet create live, interactive earth and space science simulations that are so much more engaging than reading website pages.
- **At School:** Mobile programs travel to schools, bringing STEM discovery through space-themed events and unique experiences.

Programs On-site at CLCC Facilities

- **K-3:** *Gemini and Voyager I, II and III*—Station-based discoveries begin with day and night, Sun and Moon; continue with the Solar System; progress to astronaut exercises, flight propulsion and math wizardry; advance to states of matter, CO₂ testing, 3-D constellation models, what pixels are and picturing distant objects.
- **Grade 4 and up:** *Return to the Moon* simulator mission—The crew arrives to establish a permanent lunar base for making cosmic observations, studying off-planet settlements, and launching human planetary exploration.



- **Grade 6 and up:** *Rendezvous with a Comet* simulator mission —Students undertake a daring exploration of comets, plotting a rendezvous course, launching a probe, collecting scientific data and surviving surprises and emergencies.



- **Grade 8 and up:** *Voyage to Mars* simulator mission—In 2076, on a transport vehicle from Earth, the crew enters Martian orbit to continue explorations of Mars’ two moons while overcoming emergencies and dealing with environmental variables.

“e-Missions” Distance-Delivered by Internet

Teams of students—located wherever Internet broadband service is available—interact with Mission Control at CLCC to assess situations, develop plans of action, deal with crises and solve problems.



- **Grades 3–5:** *Moon, Mars and Beyond*—Students decipher coded messages, locate missing astronauts and calculate cargo needs to perform a rescue and safely return all crews to the Mars base. Ask if your school qualifies for a free mission under our NASA grant.
- **Grades 6 and up:** *Operation Montserrat*—Based on an actual event, earth science students use computers, the Internet and actual NASA satellite data to analyze simultaneous threats of a hurricane and a volcanic eruption, seeking to save the inhabitants of a small Caribbean island.

- **Grades 9 and up:** *Space Station Alpha*—Applying chemistry, physics and biology, students work to protect the International Space Station and its crew from a major solar eruption. Optional bonus: Two transferable elective physics credits are available from UCCS.

Traveling Programs Come to Your School

Stellar Portal e-Planetarium (Sponsored by the Daniels Fund) programs include learning and activities both inside and outside of the big blue dome.

- **Grades K-5:** *It’s All About Time*—Day, night, seasons and Moon phases as well as constellations.
- **Grades 6-8:** *Rings of Saturn*—Space travel; spacecraft; planet surface contour maps; Saturn’s rings and moons.



- **All ages:** *Night Sky*—Explore the night sky, planets, stars, and the Milky Way; hear legends of constellations and invent your own.



NASA-Style Moon Suit

- **Grades 3-8:** *Living in Space*—How can humans work and survive in space? What about muscle atrophy, the effects of microgravity, astronaut hygiene, food and eating in space? How does an EVA/Moon suit work?



Pricing

The following are discounted, nonprofit/school prices for live simulator mission programs on-site at CLCC, programs that travel to your school or those that are Internet-delivered, and are for groups of 16–30 students. Most programs run about 2–3 hours. Prices include training for one teacher and about 10 hours of lesson plans.

Mission Programs at CLCC Facilities

Grades K–3 Stations/Centers (<i>Gemini, Voyager I, Voyager II, Voyager III</i>)	\$395
Simulators (<i>Return to the Moon, Rendezvous with a Comet, Voyage to Mars</i>)	\$750

Distance-Delivered e-Missions

<i>Moon, Mars and Beyond</i>	\$400
<i>Operation Montserrat, Space Station Alpha</i>	\$500
Optional: 2 transferrable UCCS elective physics credits for <i>Space Station Alpha</i>	\$130/student

Traveling Programs

e-Planetarium (<i>It's All About Time, Rings of Saturn</i>)	\$250/location/day + \$150/class
e-Planetarium (<i>Night Sky</i>)	\$250/location/day + \$100/hour
Astronaut EVA/Moon Suit with <i>Living in Space</i>	\$200/location/day + \$100/hour
Program or Training Date Change/Rescheduling	\$50
Program Cancellation (for requests made in writing at least 30 days prior to program date)	\$100
Program Cancellation (for requests made less than 30 days prior to program date)	100% of program fee

Teacher Training

CLCC programs are designed to be culminating events of several weeks of classroom curriculum. Teacher involvement is an essential component for mission success. Therefore, to maintain the highest standards of program quality and service, **all teachers must participate in training—either new-teacher training or refresher training. Continuing education credits and UCCS credits are available.** Teacher Professional Development Workshop dates are scheduled at the time of registration (see schedule below). It is imperative that teachers attend the appropriate workshop prior to their scheduled mission. Please consider this when signing up for your workshop date.

The “first-timers” workshop is a full day. Teachers participate in a mission simulation and learn about mission logistics, curriculum support, state standards that are addressed, hands-on activities, teaching strategies (multiple learning styles) and mission-day procedures. Teachers will also receive the pre- and post-mission curriculum to support the learning experience.

Shorter refresher training courses are provided for educators who previously participated in a full-day training. These will include enrichment with extended curriculum and activities, as well as new academic content for any changed or updated mission scenarios.

Choose your preferred training date from the following schedule:

For Simulator Missions *Return to the Moon, Rendezvous with a Comet, and Voyage to Mars*

Full-Day Training:

9:00 AM – 4:00 PM

Saturday, August 20, 2011

Saturday, October 8, 2011

Saturday, January 7, 2012

Saturday, February 25, 2012

Refresher Training

5:00 – 7:00 PM

Thursday, August 18, 2011

Tuesday, September 13, 2011

Monday, October 3, 2011

Wednesday, November 9, 2011

Thursday, January 5, 2012

Wednesday, February 8, 2012

For Distance Delivered e-Mission or Traveling Programs, training is done over the phone by appointment only.

Program Schedule

At least two live simulator missions, two live and interactive e-Missions, and two e-Planetarium or Moon suit programs are available each day. **Dates and times are filled on a first-come, first-served basis.** Every attempt will be made to accommodate scheduling requests during registration; however, CLCC cannot guarantee that a district will get its first choice of dates or times for missions or teacher professional development workshops. Please consult your school/district calendar prior to registration. If scheduled mission dates need to be changed, there is no guarantee that accommodations can be made for alternate mission dates and time slots.

Important Policies

- **Changes and Cancellations:** Charges will be made for schedule changes or cancellations.
- **Teacher Training:** Both new and returning teachers must attend training for their planned programs.
- **Funding:** Teachers or other program schedulers must contact and receive appropriate funding authority before registering for a CLCC program.

How to Register

Program and related questions may be directed to our Registrar, Christa Penn, at 719-598-9755 or CPenn@clccs.org. However, actual program requests and registration will be handled through our online system.

To log in, go to <http://registration.ccesse.org> (DO NOT use www).

- If you already have a username and password, log in.
- If you have forgotten your username and/or password select *Remind Me* and follow the instructions.
- If you have never registered on our online *InVEST* system, select *New User* and input all requested information. Please complete all fields as having this information will allow us to get in touch with you in case an emergency. Your username and password will be provided within two business days. If you have not heard from us within that time, please contact our Registrar, Christa Penn, at 719-598-9755 or CPenn@clccs.org.

To select a mission program:

- Once you have logged in, you will be directed to the *Available Mission Schedules* page.
- Select the *mission type* (e.g., e-Mission, onsite, etc.) just above the calendar.
- Select the desired *month* and *year* from the pull-down menus.
- Select the desired time slot (e.g., *morning*, *afternoon*) on the desired day of the calendar page. This will bring up the *Mission Registration Request* page.
- Select your desired mission name (e.g., *Comet*, *Montserrat*).
- Complete the information requested. You may use the *Notes* section for any additional information you want CLCC to know, as well as your requested teacher training date.
- **Please read the terms and conditions. By checking the required box you acknowledge your agreement with the noted policies.**

Confirmation: Your request will reviewed and we will contact you to finalize your confirmation. If you have not heard from us within two business days, please contact our Registrar, Christa Penn, at 719-598-9755 or CPenn@clccs.org.

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