



NASA STEM EPDC DIGITAL BADGING SYSTEM

Leading the way to an enhanced STEM learning journey for Educators and Students

A "badge" is a micro-credential or certification in a specific topic area. In support of professional development for educators and STEM engagement for students, the badging system offers a personalized, relevant, and engaging experience.

The robust, quality system designed for STEM educators and students tracks learning, provides access to online courses, and maintains a certification database. Evidence of progress in skill attainment is monitored while the completion of related activities, assessments, and projects are documented.

Learn more at txstate-epdc.net

THE FACTS



FREE RESOURCES
PROVIDED BY NASA



40+ EDUCATOR AND STUDENT BADGES



NEW BADGES DEVELOPED AND PUBLISHED ON A REGULAR BASIS



INTEGRATED ASSESSMENT MODULES WITHIN EACH BADGE

HOW DO I GET STARTED?

- » Explore the badges at txstate-epdc.net/digitalbadging/ and hover over title for a badge description
- » Click on any badge to create a free account by selecting the **Register Now** button
- » Keep track of your badges using an integrated dashboard and reporting platform
- » Share your badge certificate(s) showing earned continuing education credits with administrators or others.

HOW CAN AN EDUCATOR USE BADGING WITH THEIR STUDENTS?

- » Teachers can introduce NASA content to their students after first completing the educator companion badge and a brief 1-hour badge titled "Using Badging with Students."
- » You will be contacted by NASA STEM EPDC with information to help you create your student badging community.
- » Students will receive an email invitation to join the group and the teacher will be the student work reviewer.
- » When the teacher has determined that the student has successfully completed all steps in the badge, the student will earn the badge and a certificate of completion.

EPDC BADGES NASA RELATED MICRO-CREDENTIALS IN STEM

PHYSICAL SCIENCE



NASA Rockets: Forces & Motion



Rocketry In/Out of the Classroom



Energy & Power for Living on the Moon



NASA Does Matter

NASA STRATEGIC THEMES



Journey to Mars: NASA LaRC 100 Educator



Aeronautics: NASA LaRC 100



Earth Right Now Langley 100th



Small Steps Giant Leaps



Moon to Mars



Development of Commercial Crew Program

STEM INSTRUCTIONAL PRACTICES



Preparing to Be Culturally Responsive



Practicing Equity in STEM Education



Taking the STEM Challenge in Your Classroom



Real World Problem Solving with NASA eCLIPS



Variables: Independent, Dependent, & Controlled



Ways of Knowing & Student Inquiry

ENGINEERING & TECHNOLOGY



Engineering Design Process



NASA Spinoff



On the Moon: Engineering 6–12



Space Operations Learning Center (K-6)



Balancing Act-Spacecraft Mass Properties



NASA's BEST: Lunar Buggy Activity



NASA BEST: Engineering for K–8 Students



NASA's BEST: Green Propellant Activity



Additive Manufacturing in Space: Building in 3D



Moon to Mars

MATHEMATICS



Year of the Solar System Math (6–12)



Bringing Global Climate Change (GCC) into Mathematics Classrooms



Cognitively Guided Instruction (CGI) using NASA Math



Solar System Scroll



Scale of Discovery



Orbital Systems

LIFE SCIENCE



Radiation & Human Health





Looking for Life



Red Planet/ Green Thumb

EARTH & SPACE



Blue Marble Matches: Earth Processes



Curved Space-Time in the Classroom



GLOBE: Elementary Water Studies -Storybooks & STEM



Earth's Orbit & Distance from the Sun



Mission Geography



Models & Microgravity



Earth's Water Resources



Ames Aeronautics Exploration Encounter

STUDENT BADGES



Small Steps Giant Leaps



to N





Green Thumb



Development of Commercial Crew Program

New student badges are released regularly. Visit txstate-epdc.net/digital-badging/ for current offerings

