

K-12 Curriculum Enhancement Activities (CEA)

- Developed by a team of Math and Science Content Experts, NASA STEM Content Experts, Primary and Secondary School Teachers, Curriculum & Instructional Designers and Graphics Designers.
- Hands-on, inquiry-based activities.
- Draw heavily on NASA Mission Directorate research.
- Aligned to National Math, Science and Technology standards
- NASA SEMAA graduates who have participated in the entire K-12 CEA will have completed 441 hours of advanced studies in STEM prior to their enrollment in a post-secondary institution.

All SEMAA students are encouraged to participate in one academic year session and one summer session each year.

Three Academic Year Models of Operation

- *Saturday Model*
 - Grades 3-12 typically meet for 3 hour sessions over an 8 week period
 - Grades K-2 typically meet for 3 hour sessions over a 5 week period
- *After School Model*
 - Typically conducted as 1-2 hour sessions, 2-3 days per week
- *In School Model*
 - Typically conducted over the course of an academic year quarter

Grade	Classroom Instruction Received
K-2	12 Contact Hours <i>(Typically conducted over a 5-week period)</i>
3-12	21 Contact Hours <i>(Typically conducted over an 8-week period)</i>
K-12	15 Contact Hours <i>(Typically conducted over a 1-week period)</i>

Cumulative Exposure = **441 Contact Hours of Advanced Studies in STEM**

- Academic Year Session
- Summer Session