

2020 ECC STEM Camp Course Descriptions

DIY Single Shot Paintball Gun (Grades 7-12)

Jacob Biery

Participants will build their own PVC paintball gun on Day 1 of this hands-on activity, then enjoy target shooting activities on Day 2 ... all while learning the important fundamentals of combustion and projectiles. Participants will be able to take their paintball guns home at the end of the camp.

Exploring Chemistry (Grades 3-6 & 7-12)

Kanishka Epa

Explore the exciting world of chemistry through demonstrations and hands-on experimentation. In this class, we will cover advanced topics like acids and bases, stoichiometry, and the reactivity of elements through fun activities in a safe environment.

Great Brains on the Great Plains (Grades 3-6 & 7-12)

Jim Cheaney & Wendy Valentine

Think you know all about the brain? Think again, and keep on thinking because thinking is the name of this game. You'll learn all about the brain, the mind, nerves, senses, and more with dissections, sensory tests, games, and lots of fun! You won't MIND it one bit!

Into the Woods (Grades 3-6 & 7-12)

Jessica Mahoney

Campers will spend time exploring nature through fun and educational activities at Calkins Nature Center. Activities may include guided hikes through the woods and prairie, getting up close and personal with some of the ambassador wildlife that call Calkins home, upcycling glass bottles into vases with hydro dripping, getting your feet wet while learning about water ecology, and much more. Transportation to and from ECC between sessions will be provided.

3D Printing Made Easy (Grades 6-12)

Uriah Tobey

Learn to use software to draw three-dimensional (3D) objects and then use a 3D printer to bring your creation to life. Learn to print your own Lego-style building blocks, action figure, miniature building, or anything else you might imagine! Bring your invention to life with 3D printing and take your creation home.

Registration Options

Please note grade levels for each class. Students will indicate their topic preferences in the online form at <https://ce.iavalley.edu/take-a-class/summer-youth-programs/ecc-stem-preference-form>. Registration and payment must then be completed online at <https://iavalley.augusoft.net/>. Questions can be directed to 641-752-4645 or ivceinfo@iavalley.edu.

Morning Class (9 am – Noon)	Grade	Afternoon Class (1 – 4 pm)	Grade
Exploring Chemistry	3 – 6	Great Brains ...	3 – 6
Into the Woods	3 – 6	3D Printing Made Easy	6 – 12
Great Brains ...	7 – 12	Exploring Chemistry	7 – 12
DIY Paintball Gun	7 – 12	Into the Woods	7 – 12
		DIY Paintball Gun	7 – 12

Lunch will be provided to all students from noon to 1 pm.