

Cedar Falls Community School District

STEM Update, September 2017

Engineering

- Industrial Technology and Engineering--Grade 7
- Automation and Robotics--Grade 8
- Introduction to Engineering Design
- Computer Integrated Manufacturing
- Principles of Engineering
- Engineering Design and Development
- CAPS: Engineering Technology, Communication and Design

Computer Science

Current:

- Computer Applications and Computer Science--Grade 7
- Computer Science Essentials--Grades 10-12

Future??:

- App Inventor and Computer Science for Makers--Grade 8
- Computer Science Principles--Grades 10-12

Elementary

Current: No Standard Curriculum

- Code.org
- Tech Devices
- STEM Scale-Up Programs

STEM SCALE-UPS

- FTC and FLL
- A World In Motion
- Defined STEM
- PLTW: POE and Gateway
- Engineering is Elementary
- Making STEM Connections

Extra Curricular

Rocket Club

FIRST Programs

- Paid FRC, FTC Coaches and FLL Building Coordinators
- Over 100 volunteer coaches/mentors
- FRC: Grades 9-12, Team 525 with 40 students
- FTC: Grades 7-12, 5 Teams with 70+ students
- FLL: Grades 4-7, 16 Teams with 140 students
- FLL Jr.: Grades K-3, 26+ teams with 140+ students