

APPLY NOW FOR CIT!

Are you an incoming freshman who likes to take risks, think outside the box, work collaboratively, find your own answers and have fun while learning? Are you ready to join a group of highly motivated students that are enthusiastic about science, engineering and technology?

THEN YOU MIGHT BE READY FOR CIT!

Step 1: Take the placement test. The placement test for CIT/Science will take place in April at SMS. Students from schools other than Sinagua can take the test at CHS in April. Come to the test with a scientific calculator and a your FUSD iPad (if applicable). The test includes both scientific reasoning and math. You can expect to solve for "x," use $y=mx+b$, interpret data and graphs, and

predict the outcome of an experiment. A practice math test is available on the CIT website.



Step 2: Complete the

application. Complete the application online by visiting the CIT website off of the Coconino High School Academics tab. The application includes a short introductory essay.

Step 3: Ask a teacher for a recommendation. Don't wait until the last minute to ask a teacher, and be sure to send the recommendation link. We suggest asking a teacher that can speak positively about your work and why you would be a good fit for CIT.

Be sure to have both the application and recommendation complete by the deadline. Late applications will not be accepted! Letters will be sent home after the application deadline notifying you of your application status. **GOOD LUCK!**

COCONINO INSTITUTE OF TECHNOLOGY

CIT Application Timeline...see website for details

- Late February: CIT testing at Sinagua Middle School for students applying to the program. Be sure to bring your iPad!
- Late March: Testing at CHS for students that don't attend Sinagua. Contact Christine Sapio (csapio@fUSD1.org) to sign up to test.
- Late March: Applications are completed online and are due by 4:00 pm. All interested students are encouraged and welcome to apply!
- Students will be notified of their acceptance via letter. Letters will be mailed home about a week after the application closes.

Applications are available online now and must be completed by late March.
APPLY NOW!

www.fUSD1.org —
>CHS —> Academics —
>CIT



Coconino Institute of
Technology
Coconino High School

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For more information:
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ARE YOU READY?



"Even if you don't want to go into engineering or science you can still study something that you love and apply the science behind it. You learn to think for yourself and that's really a cool thing."

"I'm so grateful that I finished my capstone project. The program and the experience are really worthwhile. Everyone should take this opportunity."



"CIT made me fall in love with engineering. My favorite part is being with a group of 50 kids who become like a family."

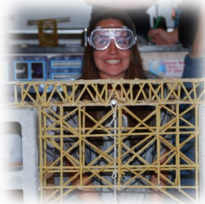
"You get to work with a group of like-minded students and get to know them better. Every project you get to work with a new group of friends."



Since 2001, the Coconino Institute of Technology has been one of FUSD's spotlight programs. **CIT offers an integrated course of study in science, technology and engineering at CHS.** Students begin their freshman year as a cohort and continue through high school together, becoming closer than family.

CIT pairs rigorous and exciting science classes with challenging engineering classes. Students take the concepts learned in their science classes and apply them to their engineering courses. **Our engineering courses qualify as Career & Technical Education (CTE) courses.**

The freshman year features **Physics and Engineering I.** Students learn principles of Newtonian Mechanics that are applied to projects designed in CAD. The grand finale is the class trip to Six Flags Magic Mountain to explore the physics of roller coasters!



Sophomore year students take **Engineering II and Chemistry.** Properties of matter and energy are applied to create bigger and more elaborate projects like Rube Goldberg Machines, wind turbines and our infamous cardboard boats!

The **Junior Year CIT Capstone Experience** challenges students to take what they've learned into the real world. The Capstone is dedicated to gaining a deep, real-world understanding of the process of science and engineering:

- 1: Identify a real-world problem
- 2: Conduct research and consult with experts
3. Design an experiment or product to address the problem.
4. Test and analyze your solution.
5. Share your findings with others.

In the fall, CIT students do full-scale projects to practice the process. In the spring, students design and execute their own Capstone project. Each Capstone is unique, and is the most rewarding part of the program for many students.

COCONINO INSTITUTE OF TECHNOLOGY RECOMMENDED 4-YEAR COURSE OF STUDY

The Coconino Institute of Technology is a rigorous course of study that emphasizes the integration of science, engineering, and technology. CIT students tend to be: motivated to succeed, interested in pursuing a STEM career, college-bound, and actively involved in sports, clubs, and extracurriculars. The Course of Study below is what we recommend for students who wish to graduate from the CIT program and go on to a four-year university.

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
CIT Physics	CIT Chemistry	Advanced Science	Advanced Science
CIT Engineering I	CIT Engineering II	CIT Capstone Experience	Elective or Fine Art
Math (Algebra, Geometry, or Algebra II)	Math (Geometry, Algebra II or Pre-Calculus)	Math (Algebra II, Pre-Calculus, or AP Calculus)	Math (Pre-Calculus, AP Calculus, or AP Statistics)
9th English (Honors encouraged)	10th English (Honors encouraged)	11th English (AP or IB encouraged)	12th English (AP or IB encouraged)
PE/Health	History/Social Studies (AP or IB encouraged)	History/Social Studies (AP or IB encouraged)	History/Social Studies (AP or IB encouraged)
Elective (Bio if not done in MITe)	Foreign Language or Elective	Foreign Language	Foreign Language or Elective

ADVANCED COURSES AT CHS

Coconino High School is proud to offer a variety of advanced courses. CHS offers Honors courses for freshmen and sophomores, and both International Baccalaureate and Advanced Placement courses for juniors and seniors, in addition to some courses for dual enrollment through Coconino Community College. Exact course offerings change year to year; check the CHS website and course catalog for most current offerings.

Many CIT students join the program because of a strong interest in science, technology, engineering, and math careers. To help these students prepare for future college coursework, we encourage CIT students to take advanced courses in science and math. Common choices include AP Chemistry, Anatomy and Physiology, AP Physics 1 and 2, and IB Exercise Science. When combined with the CIT courses, these advanced courses have a demonstrated track record of preparing students for success in STEM after high school.

