

Fundamentals of Computer Science

Instructor: Adrian Hanner

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The best way to contact me is through the email listed above, or you can contact me on TEAMS during normal school hours.

Course Objective: This is a year long course where students learn about the computing tools that are used in the industry on a regular basis while also developing real-world problem-solving skills. This course will introduce the basics of computer programming, the foundations of designing a web page, and how information is digitally processed and sent over the internet.

Course Outline:

- Introduction to Programming with Karel the Dog (6 - 8 weeks / 30 - 40 hours)
- Project: Pair-Programming with Karel Paint! (1 week / 3 - 5 hours)
- What is Computing? (2 weeks / 10 hours)
- Digital Information (2 weeks / 10 hours)
- Basic Javascript (2 - 3 weeks / 10 - 15 hours)
- The Internet (2 weeks / 10 hours)
- Web Design (6 -7 weeks / 30 - 35 hours)
- Digital Citizenship and Cyber Hygiene (3 - 4 weeks / 15 - 20 hours)

Virtual Classroom Norms:

- Log into HUB and TEAMS
- Must be online on-time (If an issue, send me an email)
- Microphones should be off unless you are speaking
- Chat functionality is for school/professional use

Attendance:

- Attendance will be taken each live session

Required materials:

- Laptop/Internet (HUB/TEAMS)
- Headphones
- Online curriculum: CodeHS

Grading:

- **70 %** Projects/Exams
- **30 %** Daily work: attendance/classroom assignments/professional conduct

Late Work:

- All deadlines for work will be shown on the HUB for each assignment
- **No Late Work** accepted without a written excuse/email before the deadline closes
- Written excuse must be emailed to me using school HISD email address (@houstonisd.org)
- Makeups/extensions are subject to teacher discretion