Welcome to the

Department of computer science

Open House

www.cs.appstate.edu
Undergraduate students helping us today..

Jakobe Bussey

Kayla Friend

Bryan Hill
Graduate student helping us today..

First-generation App State student hammers out a new perspective

https://today.appstate.edu/2021/01/13/graber
CS faculty at the Open House..

- Dr. Abdelbaset Hamza
- Dr. Jay Fenwick
- Dr. Cindy Norris
- Dr. Rahman Tashakkori
Degrees and programs

• Bachelor’s degree in Computer Science (ABET accredited) – about 500 students and total of 120 credit hours
• Masters degree in Computer Science – about 25 students
• Minor in Computer Science (12 hours of 2000+ courses)
• Data Science Certificate
• CS Honors Program
• Internships Program

ABET Accredited (Academic Board for Engineering and Technology)
• Checksheet
  – Academics – Undergraduate Program – Course of Study – Prerequisites
    • 2020-2021 Checksheet (Current)
      • https://drive.google.com/drive/folders/1EQMr66qJSkqZWyQ23MZXo1T2r4fbyCy
    • Prior year’s Checksheet
  – Calculus 1, Calculus 2, Linear Algebra, and Statistics Required
  – Two sciences from the same sequence (AST, BIO, CHE, GLY, or PHY)
North Carolina Undergraduate Research Symposium

Ian Watts, Josh Jackson, Gurney Buchanan, Rebecca Bryan, Diana Martinez, and Patrick Beakman.
Electives

• Mobile Device Programming
• Server and Client Side Web Programming
• System Administration and Security
• Artificial Intelligence
• Data Communication and Networking
• Human Computer Interfaces
• Embedded Systems

• Cybersecurity
• Machine Learning
• Neural Networks
• Computer Graphics
• Digital Image Processing
• Operating Systems
• Bioinformatics
Web Page
https://cs.appstate.edu/ or https://compsci.appstate.edu/

• Faculty & Staff
• Scholarships - The larger ones are:
  – NSF supported S-STEM (need-based) www.cs.appstate.edu/sstem
  – ECRS  www.cs.appstate.edu/ecrs
• Internships
  – Past Interns (IBM, Microsoft, Google, Lowe’s, Fidelity, Sunrise, ECRS, ..
CLUBS

• Women in Computer Science
• Computer Gaming
• LINUX
• ASCII
• Competitive Programming
Women in Computer Science students
The "Bytes" team solved 5 problems for 17th place and earned a spot in the next level of competition at The North American Championships!!

This is the first time App State has had a team advance this far.
S-STEM and ECRS Scholarship Programs

• $6000 * Annually for financially needy and academically talented freshmen intending on majoring in chemistry, computer science, geology, mathematics, and physics
• Weekly seminars
• Study groups for core classes
• Mentoring and Tutoring
• Leadership workshop series
• Peer-mentoring
• Resume workshops and internship/job search
• Community building

* ECRS scholarship is $4000/year
ECRS First Graduate Fellow

Joshua Jackson, Kevin Kamto, Diana Martinez, Mikayla Sage, Cameron Small, and Zoe Upchurch

Henry Jones and William O’Brien

Joseph Howard, Ethan Little, and Tyler Tripp

Joshua Jackson, Kevin Kamto, Diana Martinez, Mikayla Sage, Cameron Small, and Zoe Upchurch
ACCELERATED ADMISSION (4+1)

• Get a Masters Degree in 5 years.
• Senior year – Take graduate courses.
• One extra year = Masters Degree
• Eligible students are those who:
  – Have a 3.4 cumulative GPA and senior standing (90 completed hours)
Computer Science

• Computer Science is hard. Be prepared to work hard.
• Computer Science is worth it. Be prepared to work for it.
• There is help and lots of resources.
• Small class sizes means you get to know your professors and can ask questions.
• Study Hall
  – 6:00pm – 9:00pm Sunday through Wednesday
Where our students have gone after graduation

- Big companies: Amazon, Fidelity, Google, IBM, Microsoft, SAS, Wells Fargo ….
- Smaller companies: CGI, Duke Energy, Inmar, Premier, Sunrise, Epic, Game, …
- Local: ASU, ECRS, Samaritan Purse, and Jackson Summer & Associates, …
- Graduate School: Clemson, UNC Chapel Hill, NC State, Iowa State, Indiana State
CS students spending an afternoon at Professor Barry’s farm
Recommended Classes for incoming students

• If you are ready to take Calculus:
  – MAT 1110 – Calculus 1 – 4hrs
  – CS 1440 – Computer Science 1 – 4hrs
  – CS 1100 – Discrete Math - 3hrs
  – General Education
    • First year seminar – 3sh
    • Physical Education – 1sh
• 15 semester hours
Classes in the first Semester without Calculus

• If you are not able to take Calculus 1:
  – MAT 1025 – Precalculus
  – Lab Science (not analytical Physics)
  – General Education × 2
  – Physical Education
  – CS 2435 - Scientific Programming (Does not count toward graduation.)

• (Can’t take CS 1100, CS 1440)
Gurney Buchanan and Luke Craig at the IEEE SE 2018 Conference