UNDERGRADUATE PROGRAMS

Each degree requires 120 units.

THE UNIVERSITY OF ARIZONA
College of Information Science

	Bachelor of Applied Science in Applied Computing	Bachelor of Applied Science in Cyber Operations	Bachelor of Science in Game Design & Development	Bachelor of Arts in Games & Behavior	Bachelor of Science in Information Science	Bachelor of Arts in Information Science & Arts	Bachelor of Arts in Information Science & eSociety
Areas of Study	• AI technology and applications • App and website development • Cloud computing solutions (AWS, Microsoft) • Programming and networking • Secure computing	• Offensive and defensive cyber operations • Malware and forensics • Network and system security • Cyber threat intelligence • Law, ethics and policy in cybersecurity • Problem solving with code	• Game design for an array of purposes and industries • Gamification best practices • Game programming and development	• Game design principles • Human behavior and games • Roles and outcomes of gamification in society	• Computational thinking • Data science and analysis • Interactive and immersive technologies, including artificial intelligence and extended and virtual reality	• Creative coding • Computational arts • Digital storytelling • Human-computer interaction • Multimedia design • User experience	• Content creation • Digital life and human behavior • Digital media and engagement • Online privacy, ethics and information manipulation • Social media strategy, theory and networks
Campus	Main Online	Main Online	Main Online	Main	Main	Main	Online
Required Emphasis Area?	Yes: Applied Artificial Intelligence or Cloud Computing or DevOps or Information Management or Network Operations or Software Development	Yes: Cyber Engineering or Cyber Law & Policy or Defense & Forensics	No	No	Yes: Data Science or Interactive & Immersive Technologies	No	No
STEM-Designated?	Yes	Yes	No	No	Yes	Yes	Yes
Math Requirement	Lower division	Lower division	Higher (Elements of Calculus)	Lower (Exploring Data)	Higher (Elements of Calculus)	Lower (Exploring Data)	Lower (Exploring Data)
Second Language Requirement	2 semesters	2 semesters	2 semesters	4 semesters	2 semesters	4 semesters	4 semesters
Requires Minor or Double Major	No	No	Yes	Yes	Yes	Yes	Yes
Accelerated Master's Program Option	No	Yes: Master of Legal Studies	No	No	Yes: Master of Science in Information Science	No	Yes: Master of Arts in Library & Information Science
Career Possibilities Include:	• DevOps engineer • Information architect • Machine learning specialist • Network manager • Security analyst • Software developer • System/network administrator • Web developer	• Cyber forensic specialist • Cybersecurity analyst • Incident responder • Information security analyst • Malware analyst • Penetration tester • Security architect • Social engineer	• Game tester • Mobile developer • Software developer or programmer • Video game designer • Web developer	• Consumer insights manager • Game tester • Gaming market research manager • Software quality assurance analyst • User experience designer	• Application or systems analyst • Cybersecurity specialist • Data analyst, scientist or engineer • Information architect • Software developer or programmer	• Computational art, simulation or installation technician • Digital marketing or media specialist • Multimedia specialist • User experience designer • Web designer	• Content developer or producer • Digital marketing or media specialist • Social media specialist • Strategy manager • Technology consultant