

Future Ready: Tech Careers & Innovation Tools

30-Week Yearlong Course

Course Description

Future Ready: Tech Careers & Innovation Tools is a yearlong course designed to help students explore technology career pathways and experiment with innovative tools shaping the modern world.

During the Fall semester, students investigate diverse careers such as UX design, cybersecurity, IT support, animation, data science, digital marketing, and cloud computing. Through simulations, career research, and professional readiness activities, students gain clarity about possible future pathways.

During the Spring semester, students explore emerging technologies including AI tools, automation platforms, no-code app builders, AR/VR, robotics, and innovation design. Students complete a collaborative Innovation Challenge project that applies creativity, teamwork, and ethical reasoning.

By the end of the course, students will better understand the evolving technology landscape and develop confidence, adaptability, and responsible decision-making skills for the future.

Course Objectives

- Explore a wide range of technology careers
- Develop career readiness skills including resumes and professional communication
- Understand emerging technologies and their real-world applications
- Practice innovation through hands-on exploration
- Analyze ethical implications of new technologies
- Collaborate effectively in team-based projects
- Develop adaptability and future-ready thinking

Skills Developed

- Career research and planning
- Creative problem solving
- Innovation mindset
- Professional communication
- Ethical reasoning
- Digital tool fluency
- Collaboration and teamwork

Course Structure

Fall Semester: Careers in Tech (Weeks 1–15)

- UX & UI Design
- Cybersecurity
- IT Support & Networking
- Animation & Game Design
- Data Science & Analytics
- Digital Marketing
- Cloud Computing Careers
- Education Pathways (Certifications vs College)
- Resume & LinkedIn Basics
- Soft Skills in Tech
- The Future of Work

Major Fall Project: My Future Tech Career Pathway Presentation.

Spring Semester: Innovation Tools & Emerging Tech (Weeks 16–30)

- AI Image Generators
- No-Code App Builders
- Automation Tools
- AI Writing Tools
- AR & VR
- Robotics & Smart Devices
- Emerging Tech in Daily Life
- Ethics in Emerging Tech
- Future Trends Exploration

Major Spring Project: Innovation Challenge – Teams identify a real-world problem, build a prototype using an emerging tool, and present their solution.

Grading Overview

- Weekly Deliverables & Reflections – 40%
- Fall Career Project – 20%
- Innovation Challenge Project – 25%
- Participation & Professional Conduct – 15%

Technology Requirements

- Reliable internet access
- Device capable of running browser-based innovation tools
- Access to collaboration platforms (Google Workspace or Microsoft 365)

Faith-Based Integration

This course affirms that innovation and creativity are gifts from God that can be used to serve others and reflect excellence. Students will be encouraged to view technology careers and emerging tools through a biblical worldview.

Throughout the course, students will reflect on principles such as integrity in digital communication, wisdom in decision-making, stewardship of opportunity, and compassion in how technology impacts others.

Students will be challenged to pursue excellence (Colossians 3:23), act justly (Micah 6:8), and use their skills to contribute positively to society.

Why This Course Matters

The technology landscape is rapidly changing. Students who understand both career pathways and emerging tools will be better prepared to adapt, lead, and innovate responsibly. Future Ready equips students not only with awareness of technology—but with the mindset, character, and adaptability needed to thrive in it.