FTA 3850: Digital Payments Security
3 Credit Hours

This course examines security issues in the payments vertical. Students explore application security addressing the challenges and weak points of applications, learn the tools and techniques of machine learning as a defensive security strategy overcoming the continuous automatic attack generated by machines, and engage in hands-on practice in penetration testing. Payments framework and standards including NIST cybersecurity framework, ISO 27001 information security management, and Payment Card Industry Data Security Standards (PCI DSS) will be discussed. Administration of the information security function including the strategic planning process, policies, procedures, and staffing functions necessary to organize and administer ongoing security functions will be discussed. In addition, fraud, regulation, security practices, security architecture, competitive intelligence, and operating environments are emphasized throughout the course.
This course may be cross-leveled with FIS 6850

FTA 3860: Emerging Payments Technology
3 Credit Hours

Emerging technologies promise immediate payment processing, execution, clearing, and settlement. In reality, businesses have critical infrastructure assets that present conversion challenges or incompatible. In this course, students learn the existing critical payments infrastructure assets to understand how the current technologies work. Students will also learn the opportunities presented by emerging payment technologies. This course will challenge students to develop ideas, write business cases, and develop mockup solutions for the transition.
This course may be cross-leveled with FIS 6860

FTA 3890: Experiential Learning
3 Credit Hours

Students engage in a team-based interactive virtual experiential learning with a collaborating industry partner to gain on-the-job experience. Stakeholders from the industry partner interact with students synchronously and asynchronously. A virtual collaboration platform is used to enroll, onboard, empathize, reboot, experiment, and deliver business solutions for client problems. Students get mentored, trained, and practice on tools and techniques used in industry. Student progress is tracked using a feedback loop to improve their learning. Prototyping and experimentation are encouraged to understand "real world" issues. Partner companies share their anonymized dataset, tools and techniques. Coaching activities including design thinking, backlog management, and business modeling are used in this course.
This course may be cross-leveled with FIS 6890