

Students have the option of selecting from five specified pathways to earn Vocational Certificates within the Software, Security and Development AAS technical requirements by choosing an area of focus.

Information Security – 18 hours Cert A

The Information Security certificate will prepare the student to enter the workforce as an entry-level network administrator with a concentration in security. Certificate completers will also be prepared to obtain the Security+ certification, Network+ certification, and the CySA+ certification.

- CIS1715 Introduction to Computer Science
- CIS1906 Principles of Information Assurance
- CIS1881 Introduction to Computer Forensics
- CIS1959 Security Plus
- CIS1958 Network Plus
- CIS1758 Cybersecurity Analyst, CySA Plus

Information Technology Foundations – 39 hours Cert B (Cert A classes *) The Information Technology Foundations certificate will prepare the student to enter the workforce as an entry-level information technology worker with a core foundation in programming, hardware, networking, and basic security. Certificate completers will also be prepared to obtain the Oracle Database SQL Certified Associate Certification, Comptia A+, Linux+, Security+, Network+, and Cloud+.

The Information Technology Foundations certificate will prepare the student to enter the workforce as an entry-level information technology worker with a core foundation in programming, hardware, networking, and basic security. Certificate completers will also be prepared to obtain the Oracle Database SQL Certified Associate Certification, Comptia A+, Linux+, Security+, Network+, and Cloud+.

- CIS1715 Introduction to Computer Science *
 - CIS1906 Principles of Information Assurance *
 - CIS1881 Introduction to Computer Forensics *
 - CIS1959 Security Plus *
 - CIS1958 Network Plus *
 - CIS1758 Cybersecurity Analyst, CySA Plus *
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- CIS1894 Introduction to Digital Design
 - CIS1902 Introduction to SQL
 - CIS1868 Java programming
 - CIS1756 Comptia A+ Essentials
 - CIS1757 Comptia A+ Practical Applications
 - CIS1908 Introduction to Linux/Unix
 - CIS1755 Cloud Plus

App Development – 18 hours Cert A

The App Development certificate will prepare the student to enter the workforce as an entry-level information technology worker with an emphasis in app development on the Android, iOS, and ArcGIS platforms or a web developer. Certificate completers will also be prepared to obtain the ArcGIS Desktop Entry certification and the Microsoft Certified Solutions Associate (MCSA): Web Applications certification.

- CIS1872 Python Programming
- CIS1868 Java Programming
- CIS1753 Android App Development 1
- CIS1754 Android App Development 2
- CIS1767 iOS App Development 1
- CIS1768 iOS App Development 2

App Development - Databases and Applications (42 credit hours) Cert B (*Cert A classes)

The Database and Applications certificate will prepare the student to enter the workforce as an entry-level information technology technician with an emphasis in database skills. Certificate completers will also be prepared to obtain the Oracle Database 12c Administrator Certified Associate certification, Oracle PL/SQL Developer Certified Associate Certification, Oracle Certified Professional, MySQL 5.6 Database Administrator Certification, and Oracle Database SQL Certified Associate Certification.

- CIS1872 Python Programming *
 - CIS1868 Java Programming *
 - CIS1753 Android App Development 1 *
 - CIS1754 Android App Development 2 *
 - CIS1767 iOS App Development 1 *
 - CIS1768 iOS App Development 2 *
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- CIS1762 Introduction to Geographic Information Systems
 - CIS1765 Geographic Information Systems Development
 - CIS1902 Introduction to SQL
 - CIS1895 Introduction to Oracle
 - CIS1896 Oracle Database: PL/SQL Programming
 - CIS1893 MySQL Database Fundamentals
 - CIS1864 C# Programming
 - CIS1865 ASP.NET Programming

Game Development – 18 hours Cert A

The Game Development certificate will prepare the student to enter the workforce as an entry-level game developer. In addition, basic database skills including SQL will be obtained.

- CIS1715 Introduction to Computer Science
- CIX1883 2D Game Development
- CIS1882 3D Computer Animation / Programming
- CIS1885 3D Game Development
- CIS1859 Virtual Reality Programming
- CIS1902 Introduction to SQL