



**Community College Initiative Program**  
**2022-2023**  
**Field of Study: Information Technology**

Information Technology Concentration Areas		
<ul style="list-style-type: none"> <li> <b>Computer Information Systems (CIS) and Computer Science (CS)</b>  <i>Programming, computer science, web design, games, Excel, Access, SQL, Oracle, or Linux/Unix</i>             CIS Concentrations: Business Productivity Software, C++ Language Proficiency, Database Proficiency, Enterprise Database Proficiency, iPhone/iPad Developer Proficiency, Java Language Proficiency, LINUX, Windows Network Administration, Spreadsheet Proficiency, UNIX Proficiency, Visual BASIC Language Proficiency, Web Technician, Application Programming, Computer Science, Computer Software Development, Graphic Communications Technology, Mobile App Development, .Net Programming, Web Design (<i>examples of current options available, subject to change</i>)         </li> <li> <b>Computer Internetworking Technologies (CIT)</b>  <i>Building and repairing computers and networks Cisco or CompTIA certifications Computer forensics or network security</i>             CIT Concentrations: CISCO Certified Network Associate (CCNA) Security, Network Professional, System Support Specialist, Internetworking Technician, CompTIA A+ and Network+ PC Technician, Voice Over IP Telephony, Database Technologies, General IT, Network and Cyber Security, Network Server Administration, Networking and Telecommunications, Web Development, Web Technologies, Website Application Programming (<i>examples of current options available, subject to change</i>)         </li> <li> <b>Cybersecurity</b> </li> <li> <b>Geographic Information Systems (GIS)</b> </li> <li> <b>IT Technician – Desktop Support, Computer Support, Network Technician</b> </li> </ul>		
Track One Certificate	Track Two Non-Certificate Courses	Track Three Courses and English
Minimum Requirements		
Participants who meet the following criteria will be eligible to participate in Track One: <ul style="list-style-type: none"> <li>Students must meet minimum language requirements to enroll in credit-bearing classes.</li> <li>Math placement test may be required for some IT courses.</li> <li>Pre-requisites may be required for specific courses.</li> </ul>	Participants who meet the following criteria will be eligible to participate in Track Two: <ul style="list-style-type: none"> <li>Students must meet minimum language requirements to enroll in credit or workforce classes.</li> <li>Math placement test may be required for some IT courses.</li> <li>Pre-requisites may be required for specific courses.</li> </ul>	Students who have not yet met minimum requirements in English at their host campus will take a combination of English classes and content courses, as possible based on their level of proficiency and department approval.
Sample Field Concentration Courses		
<b>CIS</b> Database Technologies Introduction, Intermediate Access Oracle 11g, SQL 11g, & PL/SQL 11g Web Development and Tools Intro to Game Industry <b>CIT</b> Introduction to Networks Routing and Switching Essentials Scaling Networks MS Windows Server: Active Directory Configuration, Network Infrastructure Configuration, Server Administrator Geographic Information System Network and Cybersecurity	Introduction, Intermediate, and Advanced Java Programming Creating Mobile Apps with HTML5 Introduction, Intermediate C# Programming Introduction to C++ Programming Cybersecurity Cyberlaw IT Project Management AutoCAD Revit Networking Fundamentals Intro to Web Site/Page Design GIS Computer Hardware Basics	English Reading and Vocabulary English Grammar English Writing English Oral Expression English Listening and Speaking College Success Skills Non-credit courses such as Java, AutoCAD, Revit, Cisco Router & IP Routing, CyberWatch Security, Oracle SQL Field elective

**General Studies Helpful for the Field**

- Oral Communication
- College Writing
- Project Management
- Entrepreneurship

**Hands-on, Practical Professional Experience Outside of the Classroom**

**Sample Internship Opportunities—Minimum of 75 hours**

Campus tech help desk, local Start Up Accelerator, MSI Mold Builders, ESP International, ACME Graphics, ComputerCORE, Branch Technical Services, Chicago Computers, the local public library, non-profit organizations

**Sample Volunteer Activities that Build Professional Experience in the Field—Minimum of 100 hours**

Tutoring students with less advanced skills, projects in areas of database, web, and social media for a variety of campus offices or local organizations, and the campus help desk

**Sample CCI Programming in This Field of Study**

*Program Site Visits:* Oracle University Training Center, local businesses such as Rockwell Collins International, Hibu, Transamerica, Nordstrom Direct, and Delta Circuits

*Workshops and Conferences:* CyberSci Symposium, Washington DC Tech Security Conference,

*National Credential Preparation:* Cisco Certified Network Associate (CCNA), Certified Information Security Manager (CISM®) Boot Camp, Certified Information Systems Security Professional (CISSP®), Computer Forensic ACE Certification