

FERRIS STATE UNIVERSITY



Agenda

Computer Information Technology Computer Information Systems

1. Job Opportunities & Salaries
2. Program Highlights
3. Why Ferris?
4. Career Paths



Computer Information Technology



Our goal to prepare our students to be
“Day 1 Ready”

CIT Career Opportunities



Computer Support Specialists **

- Maintain computers and networks and provide technical help to computer users. **Entry-level (Help Desk)**



Network and Computer Systems Administrators

- Responsible for the day-to-day operation of computer networks.



Computer Network Architects

- Design and build data communication networks, including local area networks (LANs), wide area networks (WANs), and Intranets including virtual capabilities such as a cloud infrastructure.

Career Leadership Opportunities in CIT and CIS

Information Technology Project Managers



CIT

vs

Computer and Information Systems Managers

CIS



- Plan, initiate, and manage information technology (IT) projects.
- Serve as liaison between business and technical aspects of projects.
- Monitor progress to assure deadlines, standards, and cost targets are met.

- Plan, direct, or coordinate activities in such fields as
- data processing,
 - information systems,
 - systems analysis, and
 - computer programming.

CIT Salaries & Job Projections

#1 Best Technology Job

- High salaries and lots of jobs available
- Long-term career & leadership opportunities

Occupation	2024 Median Pay	Number of Jobs, 2023	Job Outlook, 2023-33	Employment Change, 2023-33	Projected Employment, 2033	100 Best Jobs	Best Tech Jobs	Best Stem Job	Best Paying Jobs
Information Technology Project Managers (aka Other)	\$169,510	504,000	17%	40,000	544,857*	2	1	2	12
Computer Network Architects	\$130,390	177,800	13%	23,900	201,700	20	6	12	
Computer Systems Analysts	\$103,790	527,200	11%	56,500	583,700	46	8	24	
Network and Computer Systems Administrators	\$96,800	335,400	-8%	-8,800	326,600				
Computer Support Specialists	\$61,550	892,000	6%	49,300	941,300		12	62	16*
<i>Computer Network Support Specialist</i>	\$73,340	166,700	7%	12,100	178,800				
<i>Computer User Support Specialists</i>	\$60,340	725,300	5%	37,200	762,500				
Information Security Analysts	\$124,910	180,700	33%	59,100	239,800	5	3	5	

CIT Program Highlights

3 Degree Options:

- Minor
- Associate
- Bachelor

Key Experiences:

- Internship Requirement
- Senior Projects course
- COB Business Courses
- 3 Industry Certifications

CompTIA

Courses – Credit for Certification!

- A+ (6)
- Network+ Administration (3)
- Linux+ Administration (3)
- Server Administration (3)
- Office Applications (3)

Other Key Courses:

- Client Administration
- Virtual Systems /Cloud+
- Security+ Administration
- IT Management
- Python Programming
- Databases

Computer Information Systems



CIS Salaries & Job Projections

Software Developer is the #2 Best Technology Job

- Lots of jobs and a variety of career options
- High salaries & leadership opportunities

Occupation	2024 Median Pay	Number of Jobs, 2023	Job Outlook, 2023-33	Employment Change, 2023-33	Projected Employment, 2033	100 Best Jobs	Best Tech Jobs	Best Stem Job	Best Paying Jobs
Software Developers, Quality Assurance Analysts, & Testers	\$131,450	1,897,100	17%	327,900	2,225,000				
<i>Software Developers</i>	\$133,080	1,692,100	18%	303,700	1,995,700	5	2	4	
<i>Quality Assurance Analysts, & Testers</i>	\$102,610	205,000	12%	24,200	229,200				
Database Administrators and Architects	\$123,100	141,900	9%	13,200	155,100				
<i>Database Administrators</i>	\$104,620	80,500	8%	6,600	87,100		11	55	
<i>Database Architects</i>	\$135,980	61,400	11%	6,600	68,000				
Web and Digital Interface Designers	\$98,090	222,600	8%	18,600	241,200				
<i>Web and Digital Interface Designers</i>	\$95,380	128,600	8%	10,200	138,800				
<i>Web Developer</i>	\$90,930	94,100	9%	8,500	102,500	94	10	51	
Computer Systems Analysts	\$103,790	527,200	11%	56,500	583,700	46	8	24	
Computer Programmers	\$98,670	139,400	-10%	13,400	126,000		15	72	
Computer and Information Systems Managers	\$171,200	613,500	17%	106,900	720,400				
Web Administrators (aka Computer Occupations)	\$108,970	470,900	7%	34,800	505,700				
Computer and Information Research Scientists* MS	\$140,910	36,600	26%	9,400	46,000	* Masters Degree required			

CIS Program Highlights

3 Degree Options:

- Minor
- Associate
- Bachelor

Key Experiences:

- **Internship** Requirement
- **Senior Capstone** with real clients
- **Directed Electives**
- Faculty **integrate new technologies & tools** within the courses providing students with marketable skills!

Key Courses:

- **COB Business Core**
- Python
- Advanced Programming
- System Analysis & Design
- Mobile Application Development
- Web-Based Systems Development
- Database Design and Applications
- Enterprise Integration & Business Process Design using SAP
- Operating System & Networking technologies used to build and deliver integrated applications

Why Ferris?



FERRIS STATE UNIVERSITY

FERRIS.EDU

BCP is an Active Student Organization that Connects Students with Alumni & Businesses



Our students from
ISIN, CIT and CIS
consistently
succeed in
regional collegiate
competitions!



Labs, VR Classroom, Networking Bench Lab Provide Opportunities for Collaboration

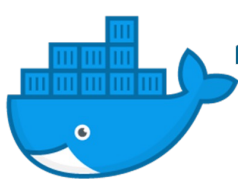




How Students Become Day 1 Ready



- ✓ Internships and Student Participation in the RSO
- ✓ Hands-on experiences in the classroom & labs
- ✓ Senior projects with real clients
- ✓ Integration of New Technologies in Networking and Software Development



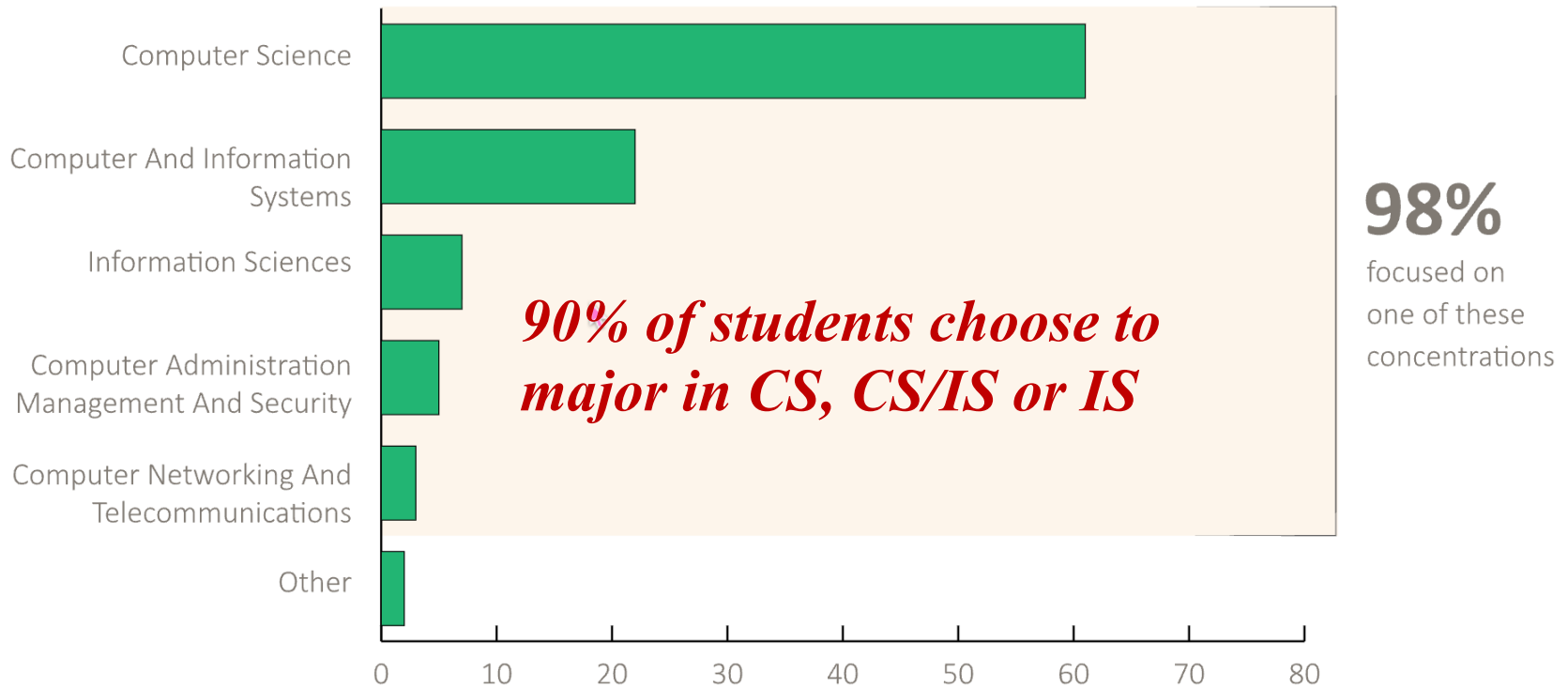
Tip for Choosing a Career Path



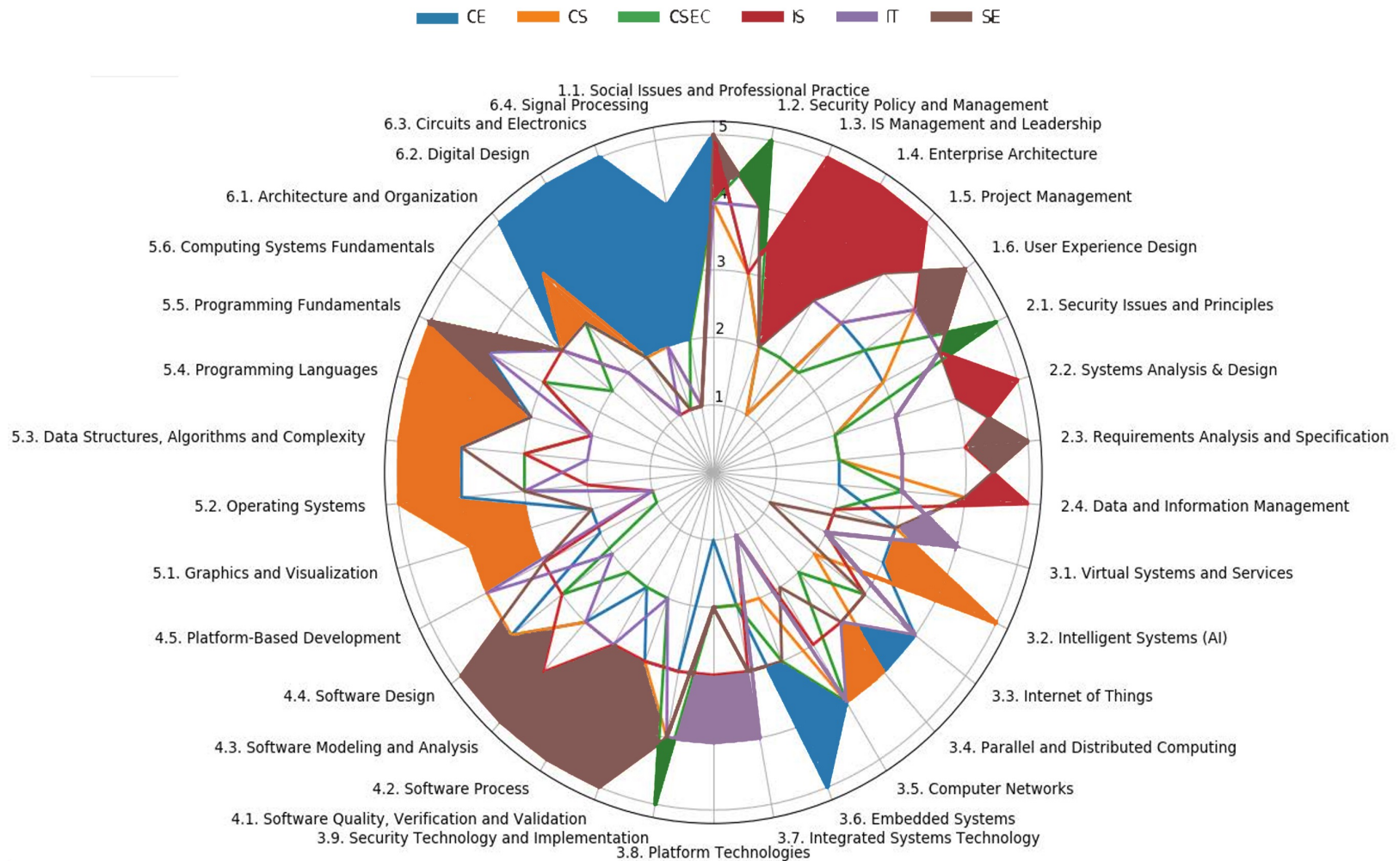
1. Focus on how programs prepare students for the careers!
2. Highlight the number of jobs available not the rate of growth!

Students Choices in Computing Majors

Chart 1. Types of computer and information technology, 2022



Overlapping Content can be a Challenge for Prospective Students!!!



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Questions?

