

# BACHELOR OF SCIENCE IN COMPUTER & INFORMATION TECHNOLOGY



## MAKING TECHNOLOGY WORK FOR YOU.

The Computer and Information Technology (CIT) program prepares technical professionals for applications of computer and information technology. Those professionals find careers in Information Technology (IT) or Information Systems (IS) in manufacturing, service, healthcare, education, and government organizations.

This well-rounded degree can prepare you for jobs such as:

- Network system engineer
- Administrator of architect
- Information security analyst
- System administrator or programmer
- Database administrator
- Web designer or developer
- Computer programmer
- Software developer
- Mobile app developer
- Computer user support specialist
- and many more...

- + WELL-ROUNDED CURRICULUM
- + DEDICATED AND HIGH-QUALITY FACULTY
- + EXTENSIVE ENGAGEMENT OPPORTUNITIES
- + ACCELERATED MASTERS OPPORTUNITY

The Computer and Information Technology (CIT) program is designed with a healthy balance of technical, managerial, and organizational content to equip students with knowledge, skills, and teamwork ability to succeed in various organizations.

Faculty in Computer Information Technology (CIT) are highly qualified with degrees from Computer Science, Computer

Engineering, Systems Engineering and other related Engineering and Technology disciplines. They are actively engaged in professional development and research in their respective specialized areas.

Student engagement in their career field is a cornerstone that differentiates programs in the School of Technology at EIU, and CIT is no exception. Students participate in national competitions, attend trade shows, complete industry relevant projects, network with CIT professionals and have opportunities to earn academic credit for internships in CIT.

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IT'S ALL ABOUT YOU. APPLY TODAY AT [MY.EIU.EDU](http://MY.EIU.EDU).

[eiu.edu/cit](http://eiu.edu/cit)

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## TOTAL MAJOR COURSEWORK: 65-66 HRS

**CIT 1001** Introduction to CIT  
**CIT 1813** Introduction to Programming (C++)  
**CIT 2183** Software Development I  
**CIT 2283** Software Development II  
**CIT 2803** Operating Systems for Technology  
**CIT 2853** Cybersecurity Intr. Det. and Prev.  
**CIT 3523** Data Communication Technology I  
**CIT 3773** Database Administration  
**CIT 4663** System Administrator and Architecture  
**CIT 4749** Capstone Project  
**CIT 4760** Systems Analysis, Design & Dev  
**CIT 4770** Database & Data Mgmt  
**CIT 4823** Big Data and Cloud Computing  
**CIT 4843** Human Computer Interaction  
**EGT 1323** Computers for Applied Eng. and Tech.  
**EGT 3414** Engineering Tech. Project Management  
**MIS 4850** Systems Security

Choose any 3 of the CIT Electives following (9 hrs):

**CIT 3153** Data Communication Technology II  
**CIT 3863** Cloud Services  
**CIT 3883** Virtualization Technologies  
**DGT 3813** Web Development  
**MIS 4700** Advanced Networking  
**MIS 4860** Ethical Hacking  
**ODL 4835** Supervision in Organizations  
**TEC 4970** Special Topics in Technology

Choose any 2 of the following:

**MAT 1160G** Mathematics: A Human Endeavor  
**OR MAT 1271** – College Algebra  
**OR BUS 2810** – Business Statistics I.  
**OR MAT 2250G** – Elementary Statistics.



## ACCELERATED GRADUATE PROGRAM OPTIONS

EIU undergraduate students with at least 60 hours of undergraduate credit and a 3.25 GPA can apply to an accelerated graduate program. An accelerated graduate program allows you to start taking your graduate coursework as an undergraduate and then count it both for your undergraduate degree and your graduate degree, saving you time and money.

### M.S. IN CYBERSECURITY:

**TEC 5313Z** Networking & Advanced Data Comm  
**TEC 5323Z** Advanced Database Technology

### M.S. IN TECHNOLOGY:

**TEC 5333Z** Management of Computer Technology  
**TEC 5343Z** Multimedia & Web Technology  
**TEC 5313Z** Networking & Advanced Data Comm  
**TEC 5323Z** Advanced Database Technology

Contact the Graduate School for more information:  
[graduate@eiu.edu](mailto:graduate@eiu.edu) or 217-581-2220

## SUGGESTED 4-YEAR SCHEDULE

- Consult catalog for specific course prerequisites
- Consult program checklist for focus area of study course offerings

FALL	YEAR 1		SPRING
CIT 1001	1	CIT 1813	3
EGT 1323	3	Gen Ed Language	3
Gen Ed Language	3	Humanities	3
Gen Ed Language	3	Humanities/Fine Arts	3
Fine Arts	3	Math Requirement	3-4
Social & Behavioral	3		
Total	16	Total	15-16
FALL	YEAR 2		SPRING
CIT 2183	3	CIT 2283	3
CIT 3523	3	CIT 2853	3
CIT 2803	3	CIT 3773	3
Math Requirement	3	PHY/BIO Science	3
Social & Behavioral	3	General Elective	4
Total	15	Total	16
FALL	YEAR 3		SPRING
CIT 4770	3	CIT 4760	3
CIT Elective	3	CIT 4843	3
EGT 3414	4	CIT Elective	3
General Elective	3	General Elective	3
PHY/BIO Science	3	Social & Behavioral	3
Total	16	Total	15
FALL	YEAR 4		SPRING
CIT 4663	3	CIT 4749	3
CIT 4823	3	CIT Elective	3
General Elective	3	General Elective	3
General Elective	3	General elective	3
		*MIS 4850	3
Total	12	Total	15

<sup>1</sup> "Z" sections of MIS 4850, MIS 4860 and EGT 4823 can only be taken by students who wish to pursue and are admitted to the Accelerated Graduate Program for the M.S. in Cybersecurity. Please see the Graduate Catalog for requirements.