

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.

TOQEER ISRAR, PhD, Peng

CIT PROGRAM COORDINATOR

4513 LUMPKIN HALL

CHARLESTON, IL 61920

TAISRAR@EIU.EDU

217-581-2721



IT'S ALL ABOUT YOU. APPLY TODAY AT MY.EIU.EDU.

eiu.edu/cit

BACHELOR OF SCIENCE IN COMPUTER & INFORMATION TECHNOLOGY

TOTAL MAJOR COURSEWORK: 86-89 HRS

MATHEMATICS & STATISTICS: 6-9 HRS

- MAT 2120G** Finite Mathematics
OR MAT 2110G Brief Calculus with Applications
OR MAT 1441G Calculus and Analytic Geometry I
MAT 2250G Elementary Statistics
OR BUS 2810 Business Statistics I

TECHNICAL: 61 HRS

- CIT 1001** Introduction to CIT
CIT 1813 Introduction to Programming (C++)
CIT 2523 Data Communication Technology I
CIT 2773 Database Administration
CIT 2803 Operating Systems for Technology
CIT 2853 Cybersecurity Intr. Det. and Prev.
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
CSM 2170 Computer Science I
CSM 2670 Object Oriented Programming (Java)
DGT 3813 Web Development
DGT 4814 Digital Media Strategy
EGT 1323 Computers for Applied Eng. and Tech.
EGT 2324 Electricity and Electronic Controls
MIS 4700 Advanced Networking
¹**MIS 4850** Systems Security

MANAGEMENT: 7 HRS

- EGT 3414** Engineering Tech. Project Management
ODL 4835 Supervision in Organizations

ELECTIVES: 12 HRS

- CSM 3070** Competitive Programming
CSM 3870 Data Structures
CSM 4170 Programming for Mobile Devices
DGT 1363 Introduction to Graphics Technology
DGT 2123 Digital Photography
DGT 3303 Introduction to Gaming, Anim. and Sim.
DGT 3313 3D Modeling for Gaming, Anim. and Sim.
DGT 4753 Digital Video
EGT 3103 Robots and Control Systems
EGT 3763 Automation and Data Capture
EGT 4503 Engineering Technology Cost Analysis
¹**EGT 4823** Facility Security
MIS 4420 Advanced VB .NET Business Programming
MIS 4530 Web & Mobile Application Development
¹**MIS 4860** Eth. Hacking & Net. Defense
OSC 4820 Business Analytics and Data Mining
TEC 3920 Independent Study
TEC 4275 Industrial Internship
TEC 4970 Special Topics in Technology
TEC 4444 Honors Independent Study
TEC 4444A Honors Independent Study I
TEC 4555 Honors Research
TEC 4644 Honors Thesis

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 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		
CMN 1310G	3	ENG 1002G	3		
EGT 1323	3	Humanities	3		
ENG 1001G	3	Humanities/Fine Arts	3		
Fine Arts	3	MAT 2120G	3		
Social & Behavioral	3	OR MAT 2110G	3		
		OR MAT 1441G	5		
Total		16		Total	15-17
FALL		YEAR 2		SPRING	
BUS 2810	3	CIT 2803	3		
OR MAT 2250G	4	CIT 2853	3		
CIT 2523	3	CSM 2670	4		
CIT 2773	3	PHY/BIO Science	4		
CSM 2170	4	Social & Behavioral	3		
EGT 2324	4				
Total		17-18		Total	17
FALL		YEAR 3		SPRING	
CIT 4770	3	CIT 4760	3		
DGT 4814	3	DGT 3813	3		
CIT Elective Course	3	CIT Elective Course	3		
MIS 4700	3	CIT Elective Course	3		
PHY/BIO Science	3	Social & Behavioral	3		
Total		15		Total	15
FALL		YEAR 4		SPRING	
CIT 4663	3	CIT 4749	3		
CIT 4823	3	CIT Elective Course	3		
CIT 4843	3	EIU 4__G Senior Sem.	3		
EGT 3414	4	¹ MIS 4850	3		
		ODL 4835	3		
Total		13		Total	15

¹ "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.