



CCU | online.
Colorado Christian University

INFORMATION TECHNOLOGY & CYBER SECURITY

Whatever is true, whatever is honorable, whatever is just, whatever is pure,
whatever is lovely, whatever is commendable, if there is any excellence,
if there is anything worthy of praise, think about these things.

– Philippians 4:8 (ESV)

DEGREE QUICK FACTS



DEGREES AND PROGRAMS



CAREER OPPORTUNITIES



CREDIT HOURS



ONLINE CLASSES

A.S. in Computer Information Technology	Technical Support Web Developer Software Developer/Engineer Database Analyst/Developer	60 credit hours	(15) major core	✓
B.S. in Computer Information Technology	Web Developer Software Developer/Engineer Database Developer/Architect Network Programmer/Analyst	120 credit hours	(36) major core	✓
B.S. in Information Systems Management	Information System Manager Systems Analyst Project Manager Entry Level Software Developer/Engineer	120 credit hours	(39) major core	✓
M.S. in Cyber Security	Digital Forensics Investigator Ethical "White Hat" Hacker Chief Information Security Officer	30 credit hours		✓
Certificate in Cyber Criminology	Cyber Criminologist Cyber Psychologist Digital Forensics Investigator	9 credit hours		✓
Certificate in Cyber Defense	Cyber Network Analyst Cyber Security Architect Cyber Security Researcher	9 credit hours		✓
Certificate in Cyber Offense	Ethical "White Hat" Hacker Cyber Security Architect Cyber Security Researcher	9 credit hours		✓
Certificate in Cyber Policy	Cyber Policy Specialist Cyber Security Director Cyber Security Architect	9 credit hours		✓

For more information on all programs offered by CCU's College of Adult and Graduate Studies, visit ccu.edu/programs.

SAVE TIME AND MONEY BY TRANSFERRING CREDITS.

PRIOR LEARNING CREDIT

Save time and money by earning college credit for your life experience. There are two ways of doing so: credit by portfolio and credit by exam. Build a portfolio of your post-high school personal and professional learning experiences. Or take advantage of low-cost CLEP, DSST, and UExcel testing options to test out of electives and many general education requirements.

Associate Degree: up to 45 credits

Bachelor's Degree: up to 75 credits

TRANSFER CREDIT FROM ANOTHER COLLEGE

If you started a degree at another regionally or nationally accredited college or university, you may be able to transfer credits toward your CCU degree. You can also earn credit through CCU's partnership with Straighterline.

Associate Degree: up to 45 credits

Bachelor's Degree: up to 90 credits

Accepted transfer credits vary by degree program. Check with your CCU enrollment counselor about transfer credit options for master's degree programs.

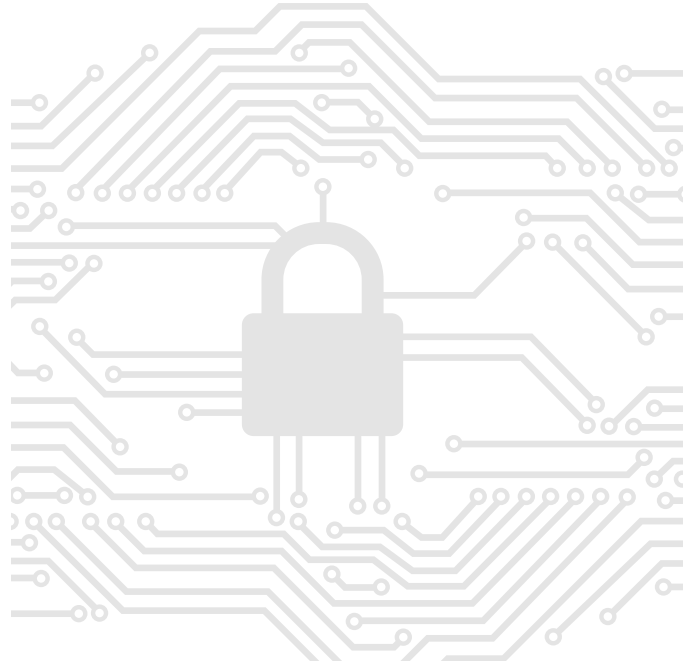


CLASSES START EVERY 5-7 WEEKS

ASSOCIATE OF SCIENCE IN COMPUTER INFORMATION TECHNOLOGY

The Associate of Science in Computer Information Technology provides students with an introductory set of computer skills relevant to today's IT field to include areas as diverse as introductory computer programming, database development and administration, software and application design, and internet development. Students will actively learn how to meet business and communication needs utilizing best computing practices.

In addition to introductory technical skills, CIT associate degree majors will also be equipped with a core business education, all with a Christ-centered perspective, enabling them to demonstrate excellence in the workplace and in their lives beyond the classroom. With this technical skill set, CIT majors will find themselves prepared for introductory positions in a variety of potential areas, such as computer programming and coding, technical support and application, and web design, as well as other emerging technical fields.





BACHELOR OF SCIENCE IN INFORMATION SYSTEMS MANAGEMENT

The Bachelor of Science in Information Systems Management integrates a holistic Christ-centered approach with technology and management to provide you with the knowledge, skills, and tools needed to successfully build and support today's information systems driven organizations. Choosing to pursue an Information Systems Management major can open doors to an exciting and rewarding career in technology and design.

The courses in this program focus on key areas, including management of information systems; internet development and e-commerce; infrastructure and system planning; and information security.

BACHELOR OF SCIENCE IN COMPUTER INFORMATION TECHNOLOGY

The Bachelor of Science in Computer Information Technology program will teach you computer skills that are relevant in today's IT field. In this program, you will cover topics like computer programming; database development and administration; software and application design; network systems analysis, design, and management; and computer information security. The Information Technology courses will focus on helping you learn the technical and professional skills employers are looking for.

In addition to gaining technical mastery, you will also be equipped with a core business education taught from a Christ-centered perspective. This perspective will enable you to demonstrate excellence in your workplace and life. With these skills, you will be prepared for a career in areas such as computer programming, technical support, application design, and information securities.

To give you the most focused education based on your interests within IT, CCU offers four different emphases. You'll be required to choose one.

The Computer Information Technology degree with a Data Engineering emphasis focuses on the creation of large database systems useable by all stakeholders, especially data scientists. This emphasis combines big data and data science with programming, web development and traditional and opensource databases to provide a holistic approach to understanding the opportunities available through the associations, patterns and trends that can be found in extremely large data sets.

The Database Management emphasis explores the design, development, and administration of both standard and unique databases, but it also includes computer programming; software and application design; systems analysis and design; and computer information security for a wellrounded IT knowledge base.



The Networking emphasis combines networking with programming and databases to provide you with a holistic approach to computer information technology. The Networking emphasis will challenge you academically and intellectually with hands-on experience in networking and networking design. This approach will also equip you to influence the technical world at the network level while being able to converse with software and data engineers to provide robust solutions to complex technical issues.

The System Analyst emphasis focuses on the creation of system solutions using the tools of analysis and technology to fulfill the needs of the stakeholders. This emphasis combines the development of critical thinking, behavior of people and systems within a programming environment, and the benefits of databases to provide a holistic approach to the field of systems analysis.



MASTER OF SCIENCE IN CYBER SECURITY

A degree in cyber security will equip you with the required technical skills and business knowledge to protect yourself, your business, and your organization's key assets online. CCU's M.S. in Cyber Security degree program will teach you cyber skills that are relevant in today's interconnected world. These cyber security courses focus on helping you learn the skills employers require to keep their organizations secure.

In addition to gaining foundational knowledge in the key areas of the field, the Cyber Security master's degree program will also show the relationship between cyber security and Christianity — especially as it relates to cyber warfare and cyber crime. This perspective enables you to demonstrate excellence both in your workplace and life.

With these skills, you will be prepared for careers in areas such as digital forensics; cyber criminology; security policy; cyber entrepreneurship or leadership; and cyber defense or offense, as well as other emerging cyber security fields.

All applicants to the M.S. in Cyber Security program must have completed introductory-level courses in networking, programming, business, and information security or must be able to demonstrate equivalent experience in each of these areas.



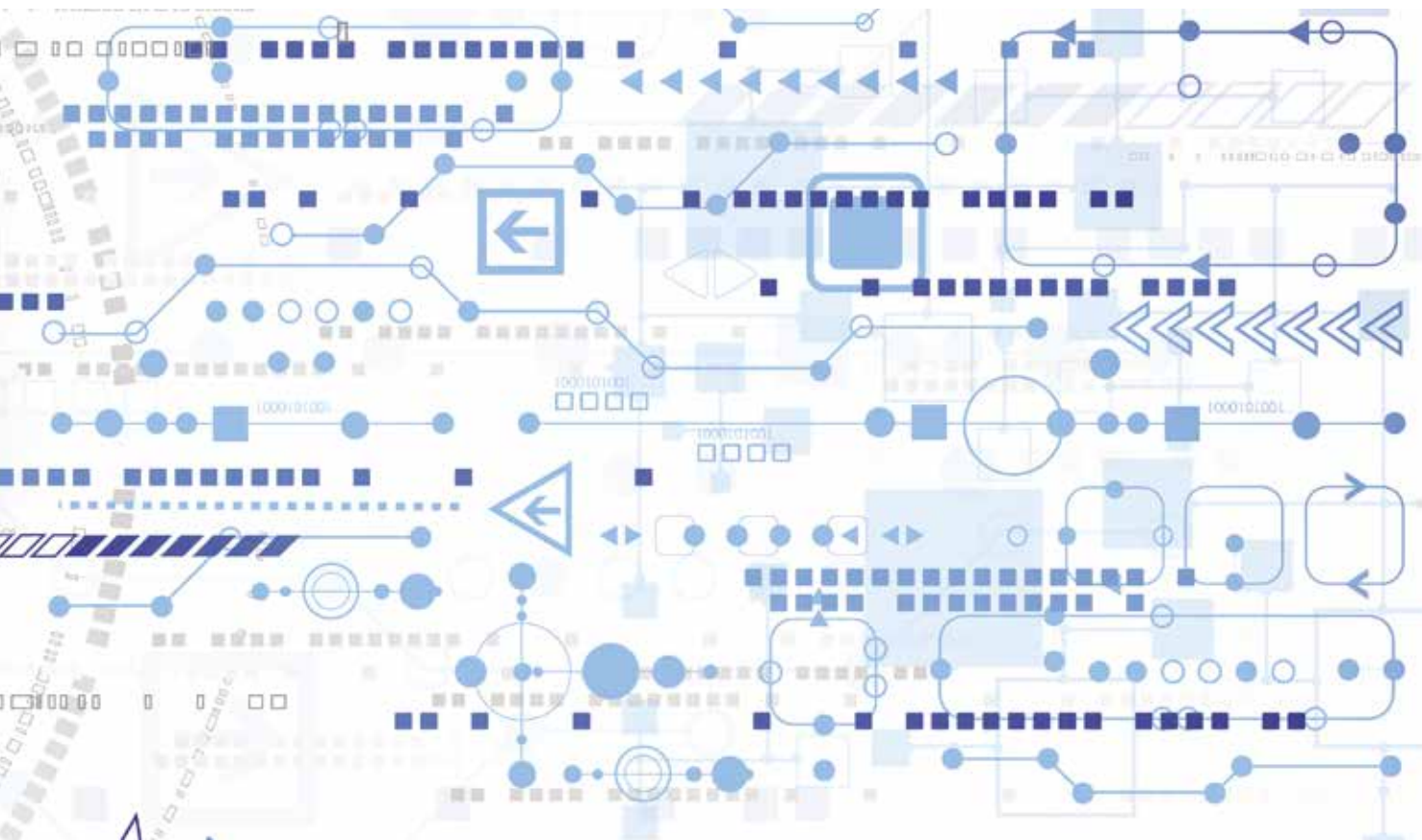
CERTIFICATE IN CYBER CRIMINOLOGY

CCU's Cyber Criminology Certificate will teach you critical skills required to understand the mind of a cyber criminal. This certification will provide an in-depth introduction to the field of criminology as it relates to cyber crime. You will learn how to apply social and behavioral methods to study the causes and consequence of crimes that occur in cyberspace. You will examine various types of computer-based criminal activity as well as the social and psychological factors that contribute to a life of cyber crime. Jobs for an educated professional in cyber criminology include: Cyber Criminologist, Expert Witness, Cyber Psychologist, and Digital Forensics Investigator.

CERTIFICATE IN CYBER DEFENSE

CCU's Cyber Defense Certificate will teach you critical skills required for the field of cyber defense. This certification will provide an in-depth introduction to the principles of cyber defense: prevention and protection; detection and management of incidents; and responses and interventions. This online certificate program will also cover security architecture and design; intrusion detection and prevention systems; security information event management systems and log analysis; enterprise perimeter security; and continuity of operations and disaster recovery planning. Jobs for an educated professional in cyber defense include: Digital Forensics Investigator, Cyber Network Analyst, Cyber Security Architect, Cyber Security Researcher, and Cyber Security Professor.

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inp_array[a]), b.push({word:inp_array[a], use_class:0}),
inp_array)); } a = b; input_words = a.length; a
indexOf_keyword(a, " "); -1 < b && a.splice(b, 1); b
b = indexOf_keyword(a, ""); -1 < b && a.splice(b, 1)
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CERTIFICATE IN CYBER OFFENSE

CCU's Cyber Offense Certificate will teach you critical skills required for the field of cyber offense or "White Hat" hacking. This certification will provide an in-depth introduction to the principles of cyber offense. Courses will cover ethical hacking using the Cyber Kill Chain Model which consists of seven steps: Reconnaissance; Weaponization; Delivery; Exploit; Installation; Command and Control; Actions on Objectives; and the phases of a targeted cyber attack. Ethical hacking is used by cyber practitioners to find vulnerabilities before an attacker is able to exploit them. Jobs for an educated professional in cyber offense include: Ethical "White Hat" Hacker, Cyber Security Architect, Cyber Security Researcher, and Cyber Security Professor.

CERTIFICATE IN CYBER POLICY

CCU's Cyber Policy Certificate will teach you critical skills required to set key standards within the field of cyber security. This certification will provide an in-depth introduction to cyber security governance — the process of managing, directing, controlling, and influencing organizational decisions, actions, and behaviors. You will also be introduced to the major security policies through which governance is applied through compliance audits. Courses cover standards in several domains, including government, healthcare, finance, and commercial industries. Jobs for an educated professional in cyber policy include: Cyber Policy Specialist, Cyber Security Director, Cyber Security Architect, and Cyber Security Professor.

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b[b.length - 1].use_class = use_array(b[b.length - 1]).  
.sort(dynamicSort("use_class")); a.reverse(); b =  
= indexOf_keyword(a, void 0); -1 < b && a.splice(b, 1)  
; return a; } function replaceAll(a, b, c) { return  
for (var i = 0; i < b.length; i++) { b[i]
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