

CYBER FORENSICS, BS

Bachelor of Science in Cyber Forensics (244304BS)

Program Contact

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Program Description

The Cyber Forensics Bachelor's Degree housed in the School of Disaster Science and Emergency Services allows students to attain knowledge of digital forensics, computer network forensics, and develop applied skills to qualify for such positions as law enforcement professionals, digital forensics analyst, and cyber forensics analyst. Students will combine classroom experiences with virtual resources from the Musson ICS Testbed and The University of Akron Regional Programming Center Cyber Range.

Requirements for Admission

To be admitted into the College of Health and Human Sciences, a student must have a GPA of 2.0. A student can complete the transfer process through an appointment with an Academic Advisor in the college of which they reside.

Department Policy

- Students must attain a C or better in each course in their major area.
- A cumulative GPA of 2.0 GPA and a minimum of 15 earned credit hours for Inter- and Intra- College Transfer into all Associate and Bachelor's degree programs.
- Prior to enrolling in classes for the B.S. degree you must contact an advisor in Polsky 301.

Career Information

Graduates of the program are expected to qualify for such positions as law enforcement professionals, computer forensic specialists, data security analysts, systems security administrators, and network security administrators in government, business, information technology, and other industries.

For additional information please visit the Bureau of Labor Statistics (www.bls.gov (<http://www.bls.gov>)) or visit the Career Center in the Jean Hower Taber Student Union (<http://www.uakron.edu/career> (<http://www.uakron.edu/career/>)).

The following information has official approval of **The School of Disaster Sciences and Emergency Services** and **The College of Health and Human Sciences**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor. The College of Health and Human Sciences recommends that

students take the General Education courses listed in this recommended sequence. Transfer students should consult their Advisor to identify courses that are equivalent.

Requirements Summary

Code	Title	Hours
	General Education Requirements (https://bulletin.uakron.edu/undergraduate/general-education/) *	31
	Cyber Forensics Major Core	80
	Electives	9
Total Hours		120

* Several courses required for the major also satisfy General Education requirements. The University minimum of 36 credits are required for General Education and credit for these courses will apply to multiple requirements.

General Education Courses

Code	Title	Hours
Students pursuing a bachelor's degree must complete the following General Education coursework. Diversity courses may also fulfill major or Breadth of Knowledge requirements. Integrated and Applied Learning courses may also fulfill requirements in the major.		
Academic Foundations		12
	<i>Mathematics, Statistics and Logic: 3 credit hours</i>	
	<i>Speaking: 3 credit hours</i>	
	<i>Writing: 6 credit hours</i>	
Breadth of Knowledge		22
	<i>Arts/Humanities: 9 credit hours</i>	
	<i>Natural Sciences: 7 credit hours</i>	
	<i>Social Sciences: 6 credit hours</i>	
Diversity		
	Domestic Diversity	
	Global Diversity	
Integrated and Applied Learning		2
	<i>Select one class from one of the following subcategories:</i>	
	Complex Issues Facing Society	
	Capstone	
	<i>Review the General Education Requirements page for detailed course listings.</i>	
Total Hours		36

Cyber Forensics Major Core

Code	Title	Hours
DGFR:100	Introduction to Digital Forensics	3
DGFR:280	Cybercrime	3
DGFR:281	Computer Forensic Methods	3
DGFR:382	File System Analysis	3
DGFR:441	Network Forensics I	3
DGFR:381	Computer Forensic Methods II	3
DGFR:283	Cyber Warfare	3
DGFR:443	Network Forensics II	3

DGFR:383	Ethical Hacking	3
EMHS:493	Cyber Forensics Internship	3
DGFR:284	Windows Forensics	3
DGFR:442	Wireless Forensics	3
DGFR:440	Intrusion Detection	3
EMHS:485	Cyber Forensics Capstone	4
DGFR:480	Digital and Scientific Evidence	3
CRJU:100	Introduction to Criminal Justice	3
CRJU:104	Evidence & Criminal Legal Process	3
CRJU:202		3
CRJU:251	Criminal Investigation	3
CRJU:298	Applied Ethics in Criminal Justice	3
or PHIL:363	Ethics of Policing	
or PHIL:364	Digital Ethics	
CRJU:307	Foundations of Crime Analysis	3
PHIL:120	Introduction to Ethics	3
STAT:250	Statistics for Everyday Life	4
CISS:145	Introduction to Unix/Linux	3
CISS:201	Networking Basics	3
CISS:430	Network Monitoring and Management	3
Total Hours		80

Electives

Code	Title	Hours
Complete 9 credits:		9
EMHS:xxx		
CRJU:xxx		
CISS:134	Cybersecurity Fundamentals	
CISS:450	Applied Data Mining	
MATH:361	Applied Cryptography	
Total Hours		9

Recommended Sequence

1st Year		
Fall Semester		Hours
ENGL:111	English Composition I	3
STAT:250	Statistics for Everyday Life	4
DGFR:100	Introduction to Digital Forensics	3
CRJU:100	Introduction to Criminal Justice	3
COMM:263	Professional Communications and Presentations	3
Hours		16
Spring Semester		
ENGL:222	Technical Report Writing	3
CRJU:104	Evidence & Criminal Legal Process	3
CRJU:202		3
PHIL:120	Introduction to Ethics	3
CISS:145	Introduction to Unix/Linux	3
Hours		15
2nd Year		
Fall Semester		
SOCIO:100	Introduction to Sociology	3

POLIT:100	Government & Politics in the United States	3
CRJU:251	Criminal Investigation	3
DGFR:280	Cybercrime	3
	Natural Science with Lab Requirement	4

Hours 16

Spring Semester

SOCIO:243	Contemporary Global Issues	3
DGFR:281	Computer Forensic Methods	3
CRJU:298	Applied Ethics in Criminal Justice	3
or PHIL:363	or Ethics of Policing	
or PHIL:364	or Digital Ethics	
	Elective EMHS:xxx or CRJU:xxx	3
CISS:201	Networking Basics	3

Hours 15

3rd Year

Fall Semester

DGFR:382	File System Analysis	3
DGFR:441	Network Forensics I	3
DGFR:381	Computer Forensic Methods II	3
DGFR:283	Cyber Warfare	3
	Natural Science Requirement	3

Hours 15

Spring Semester

CRJU:307	Foundations of Crime Analysis	3
DGFR:443	Network Forensics II	3
DGFR:383	Ethical Hacking	3
EMHS:493	Cyber Forensics Internship	3
	Elective EMHS:xxx or CRJU:xxx	3

Hours 15

4th Year

Fall Semester

ART:210	Visual Arts Awareness	3
or MUSIC:201	or Exploring Music: Bach to Rock	
or DNCE:265	or Viewing Dance	

DGFR:480	Digital and Scientific Evidence	3
DGFR:284	Windows Forensics	3
DGFR:442	Wireless Forensics	3
	Arts/Humanities Requirement	3

Hours 15

Spring Semester

DGFR:440	Intrusion Detection	3
EMHS:485	Cyber Forensics Capstone	4
CISS:430	Network Monitoring and Management	3
	Elective EMHS:xxx or CRJU:xxx	3

Hours 13

Total Hours 120