

CYBERCRIMINOLOGY - B.S.

College of Sciences and Humanities
Department of Sociology
www.kent.edu/sociology

About This Program

Dive into the thrilling world of cybercriminology and become a mastermind in the fight against digital threats! In Kent State's bachelor's degree, you'll unlock the secrets of cybercrime investigation, digital forensics and cyber law enforcement. Harness the power of technology to outsmart hackers, track down cyber criminals and safeguard the digital realm. With hands-on training, expert faculty and real-world simulations, you'll emerge ready to defend against the ever-evolving landscape of cyber threats. Read more...

Contact Information

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- **Deirdre Warren** | dwarren5@kent.edu | 330-672-8968
- Speak with an Advisor
 - Ashtabula Campus
 - East Liverpool Campus
 - Geauga Campus
 - Kent Campus
 - Salem Campus
 - Stark Campus
 - Trumbull Campus
 - Tuscarawas Campus
 - Twinsburg Academic Center
- Chat with an Admissions Counselor: Kent Campus | Regional Campuses

Program Delivery

- **Delivery:**
 - Fully online
 - Mostly online
- **Location:**
 - Ashtabula Campus
 - East Liverpool Campus
 - Geauga Campus
 - Kent Campus
 - Salem Campus
 - Stark Campus
 - Trumbull Campus
 - Tuscarawas Campus
 - Twinsburg Academic Center

Examples of Possible Careers and Salaries*

Computer and information systems managers

- 10.4% much faster than the average
- 461,000 number of jobs
- \$151,150 potential earnings

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- \$65,450 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- \$98,860 potential earnings

Detectives and criminal investigators

- 1.1% slower than the average
- 113,500 number of jobs
- \$86,940 potential earnings

Information security analysts

- 31.2% much faster than the average
- 131,000 number of jobs
- \$103,590 potential earnings

Network and computer systems administrators

- 4.3% about as fast as the average
- 373,900 number of jobs
- \$84,810 potential earnings

Additional careers

- Computer forensic analysts
- Cybercrime investigators
- Digital forensic investigators
- District attorney's office investigators
- Forensic analysts
- Incident managers
- Law enforcement agency (local, state, federal)
- Malware analysts
- Penetration testers
- Security architects
- State department

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

| Code | Title | Credit Hours |
|--|------------------------------------|--------------|
| Major Requirements (courses count in major GPA) | | |
| CRIM 12000 | INTRODUCTION TO JUSTICE STUDIES | 3 |
| CRIM 13000 | CRIME AND TECHNOLOGY | 3 |
| CRIM 33200 | CRIMINAL LAW | 3 |
| CRIM 34200 | CRIMINAL PROCEDURES AND EVIDENCE | 3 |
| CRIM 36702 | CRIMINOLOGY | 3 |
| CRIM 46800 | INTELLIGENCE AND NATIONAL SECURITY | 3 |
| CRIM 46801 | HOMELAND SECURITY | 3 |
| CRIM 46802 | TERRORISM AND COUNTERTERRORISM | 3 |
| CRIM 46803 | INFORMATION AND CYBER SECURITY | 3 |

| | | |
|-------------|---|---|
| IT 11005 | INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY | 3 |
| IT 11009 | COMPUTER ASSEMBLY AND CONFIGURATION | 3 |
| IT 13000 | APPLIED SECURITY ESSENTIALS | 3 |
| IT 15000 | FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY | 3 |
| IT 21002 | NETWORK SETUP AND CONFIGURATION | 3 |
| IT 21006 | DATABASE PROGRAMMING | 3 |
| IT 21100 | LOCAL AREA NETWORK TROUBLESHOOTING | 3 |
| IT 21110 | NETWORK ROUTING AND SWITCHING | 3 |
| IT 30000 | PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY | 3 |
| IT 36320 | COMPUTER FORENSICS | 3 |
| IT 36321 | NETWORK FORENSICS | 3 |
| IT 36322 | SOCIAL MEDIA AND MOBILE DEVICE FORENSICS | 3 |
| or IT 46320 | CLOUD FORENSICS | |
| IT 36330 | NETWORK SECURITY FUNDAMENTALS | 3 |
| IT 36331 | ADVANCED ROUTING AND SWITCHING | 3 |
| IT 36355 | COMMAND LINE UTILITIES | 3 |
| IT 46331 | NETWORK SECURITY AND FIREWALLS | 3 |
| SOC 32210 | RESEARCHING SOCIETY (ELR) (WIC) ¹ | 3 |
| TAS 47999 | TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) ¹ | 3 |

Additional Requirements (courses do not count in major GPA)

| | | |
|---|--|-----|
| SOC 12050 | INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) | 3 |
| UC 10001 | FLASHES 101 | 1 |
| Kent Core Composition | | 6 |
| Kent Core Mathematics and Critical Reasoning ² | | 3 |
| Kent Core Humanities and Fine Arts (minimum one course from each) | | 9 |
| Kent Core Social Sciences (must be from two disciplines) | | 3 |
| Kent Core Basic Sciences (must include one laboratory) | | 6-7 |
| Kent Core Additional | | 6 |
| General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) | | 2 |

Minimum Total Credit Hours:

120

¹ A minimum C grade must be earned to fulfill the writing-intensive requirement.

² Students are strongly advised to take MATH 10041 or MATH 10051 to fulfill the Kent Core Mathematics and Critical Reasoning requirement.

Graduation Requirements

| Minimum Major GPA | Minimum Overall GPA |
|-------------------|---------------------|
| 2.000 | 2.000 |

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

| Semester One | | Credits |
|--------------|---|---------|
| CRIM 12000 | INTRODUCTION TO JUSTICE STUDIES | 3 |
| IT 11005 | INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY | 3 |
| SOC 12050 | INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) | 3 |

| | | |
|-----------------------|--|-----------|
| UC 10001 | FLASHES 101 | 1 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 16 |
| Semester Two | | |
| CRIM 13000 | CRIME AND TECHNOLOGY | 3 |
| IT 11009 | COMPUTER ASSEMBLY AND CONFIGURATION | 3 |
| IT 13000 | APPLIED SECURITY ESSENTIALS | 3 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 15 |
| Semester Three | | |
| CRIM 33200 | CRIMINAL LAW | 3 |
| IT 21002 | NETWORK SETUP AND CONFIGURATION | 3 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 15 |
| Semester Four | | |
| CRIM 34200 | CRIMINAL PROCEDURES AND EVIDENCE | 3 |
| CRIM 36702 | CRIMINOLOGY | 3 |
| IT 15000 | FUNDAMENTALS OF PROGRAMMING FOR INFORMATION TECHNOLOGY | 3 |
| IT 21110 | NETWORK ROUTING AND SWITCHING | 3 |
| IT 36320 | COMPUTER FORENSICS | 3 |
| Credit Hours | | 15 |
| Semester Five | | |
| CRIM 46800 | INTELLIGENCE AND NATIONAL SECURITY | 3 |
| IT 21006 | DATABASE PROGRAMMING | 3 |
| IT 21100 | LOCAL AREA NETWORK TROUBLESHOOTING | 3 |
| IT 30000 | PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY | 3 |
| SOC 32210 | RESEARCHING SOCIETY (ELR) (WIC) | 3 |
| Credit Hours | | 15 |
| Semester Six | | |
| CRIM 46801 | HOMELAND SECURITY | 3 |
| IT 36321 | NETWORK FORENSICS | 3 |
| IT 36330 | NETWORK SECURITY FUNDAMENTALS | 3 |
| IT 36331 | ADVANCED ROUTING AND SWITCHING | 3 |
| IT 36355 | COMMAND LINE UTILITIES | 3 |
| Credit Hours | | 15 |
| Semester Seven | | |
| CRIM 46802 | TERRORISM AND COUNTERTERRORISM | 3 |
| IT 36322 | SOCIAL MEDIA AND MOBILE DEVICE FORENSICS | 3 |
| or IT 46320 | or CLOUD FORENSICS | |
| IT 46331 | NETWORK SECURITY AND FIREWALLS | 3 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 15 |
| Semester Eight | | |
| CRIM 46803 | INFORMATION AND CYBER SECURITY | 3 |
| TAS 47999 | TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) (WIC) | 3 |
| Kent Core Requirement | | 3 |
| Kent Core Requirement | | 3 |

| | |
|------------------------------------|------------|
| General Elective | 2 |
| Credit Hours | 14 |
| Minimum Total Credit Hours: | 120 |

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

| | |
|--|--------------------|
| Flashes 101 (UC 10001) | 1 credit hour |
| Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission. | |
| Experiential Learning Requirement (ELR) | varies |
| Students must successfully complete one course or approved experience. | |
| Kent Core (see table below) | 36-37 credit hours |
| Writing-Intensive Course (WIC) | 1 course |
| Students must earn a minimum C grade in the course. | |
| Upper-Division Requirement | 39 credit hours |
| Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. | |
| Total Credit Hour Requirement | 120 credit hours |

Kent Core Requirements

| | |
|---|--------------|
| Kent Core Composition (KCMP) | 6 |
| Kent Core Mathematics and Critical Reasoning (KMCR) | 3 |
| Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each) | 9 |
| Kent Core Social Sciences (KSS) (must be from two disciplines) | 6 |
| Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory) | 6-7 |
| Kent Core Additional (KADL) | 6 |
| Total Credit Hours: | 36-37 |

Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the scope of cyber threats and crimes.
2. Apply criminological theories to the commission of computer-related crimes.
3. Apply a solid foundational grounding with digital technologies to digital investigations to combat cybercrime or threats.
4. Compare and contrast digital and traditional evidence as it relates to investigation, processing and use in prosecution.
5. Define and apply policies that include privacy, regulatory, legal and ethical considerations as they relate to responding to and/or investigating cyber threats.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Sciences and Humanities are required, as a condition of graduation, to participate in an outcomes

assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Sciences and Humanities.

Full Description

The Bachelor of Science degree in Cybercriminology incorporates the understanding of computer systems and networks with criminal behavior and processes in identifying, preventing and investigating cyber-related threats and crimes. Students are involved with project-based research and other experiential learning opportunities focused on technology and the legal, ethical and criminology aspects of modern crime, making them well prepared for work in a myriad of professional positions ranging from security/intelligence analysts and investigators to network and security administrators.