

CYBERSECURITY (CYBR), BACHELOR OF SCIENCE

At Dunwoody College of Technology, the Cybersecurity bachelor's degree is a four-year program designed for people who want to work in the fast-paced information security environment. Students graduate ready to work in cybersecurity positions at corporate, nonprofit, and governmental organizations.

The program prepares students to secure, test, and defend information technology systems. Graduates learn how to recognize various forms of cyberattack, stop them, and repair and mitigate any damage caused by attacks. An emphasis is placed on cybersecurity within the context of business priorities and levels of acceptable risk for organizations.

Coursework includes such topics as security for software and networks, cyber warfare, scripting, forensic investigation, data protection laws, and risk mitigation.

Arts & Sciences courses enhance and support the technical coursework.

Students complete a capstone project that demonstrates their skills as a cybersecurity professional.

Credential Earned: BS

Length of Program: 4 years (8 semesters)

Classes Offered: Day on Campus

Available Starts: Fall Semester only

Program Outcomes

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply security principles and practices to the environment, hardware, software, and human aspects of a system.
- Analyze and evaluate systems with respect to maintaining operations in the presence of risks and threats.

Degree Requirements

Code	Title	Credits
General Requirements		
HUMN3	Humanities	3
SOCSCI3	Social Sciences	3
MATH1000	Algebra & Trigonometry	3
MATH1250	Boolean Algebra	3
MATH2250	Statistics	3
MATH2830	Discrete Math	3
UCOMM	Communications	3
GENELEC	General Electives	9
Technical Requirements		
CLDE1110	Introduction to Cloud Services	2
CDEF1110	Introduction to Cyber Defense	2
CNTS1112	Introduction to Systems and Networking	3
CWEB1116	Application Design I	3
CNTS1213	Server Systems and Automation	4
CYBR1211	Cyber Laws and Compliance	3
CNTS1221	Network Systems I	4
CYBR2111	Incident Response and Documentation	4
CNTS2132	Enterprise Identity and Access Management	4
CNTS2121	Network Systems II	4
CYBR2211	Advanced Cyber Threat Intelligence	4
CNTS2225	Network Systems III	4
CLDE2131	Access Control Authentication and PKI	4
CYBR3111	Network Security and Defense	4
CYBR3121	Digital Forensics and Incident Response	4
CYBR3131	Cybersecurity Risk Management	4
CYBR3211	Ethical Hacking and Penetration Testing	4
CYBR3221	Scripting for Cyber Professionals	4
CYBR3232	Industrial Control Systems Security	3
CYBR4111	Business Principles for Cybersecurity	3
CYBR4121	Incident Response and Recovery in OT Environments	4
CYBR4132	IoT Security	4
CYBR4212	Operational Technology Network Security	4
CYBR4223	Applied Cyber Practitioner	4
CYBR4299	Cybersecurity Capstone	3
Total Credits		120