

GW CPS Bachelor of Professional Studies in Cybersecurity

Associate Transfer Degree Plan in Computer Science

COURSE REQUIREMENTS

| Complete at VCCS | | | | Complete at GW College of Professional Studies | | |
|---|--------------|---|-------|--|---------|-------|
| BACHELOR'S DEGREE REQUIREMENT | SATISFIED BY | | | BACHELOR'S DEGREE REQUIREMENT | | |
| Course | Credits | CC Course | Notes | Course | Credits | Notes |
| Can count towards the required 38 hours of electives <i>Any credits transferred that do not count toward GW GPAC (Gen. ed. requirements) will be counted towards the 38 required hours in electives.</i> | 1-2 | SDV 100 College Success Skills or 101 Orientation | | PSCS 2302 Digital Forensics | 4 | |
| 1 course in English composition | 3 | ENG 111 College Comp I | | PSCS 2304W Incident Response | 4 | |
| 1 course in English composition | 3 | ENG 112 College Comp II or ENG 113 Technical-Professional Writing | | PSCS 3100 Principles of Cybersecurity | 4 | |

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| 1 course in critical thinking in the humanities | 3 | Any UCGS Art or Literature | | PSCS 3103W Ethics, Law, and Policy* | 4 | *PSCS 3103W fulfills the University General Education requirement for one approved course in oral communication. |
| 1 course in the social sciences | 3 | HUM 201/202, HUM 210, HUM 216, REL 230 Humanities Course | GW: The humanities courses listed here are considered social sciences at GW, therefore fulfilling one of two social sciences requirements. | PSCS 3105 Governance, Risk Management, and Compliance | 4 | |
| Can count towards the required 38 hours of electives <i>Any credits transferred that do not count toward GW GPAC (Gen. ed. requirements) will be counted towards the 38 required hours in electives.</i> | 3 | Any UCGS History | GW: The College of Professional Studies accepts history courses as social science credit on a case-by-case basis. | PSCS 3107 IP Security and VPN Technology | 4 | |
| 1 course in the social sciences | 3 | Any UCGS Social & Behavioral Science | VCCS: This course may not be a history course. | PSCS 3109 Network Security | 4 | |
| 1 course in scientific reasoning in natural and/or physical lab sciences | 4 | BIO 101 Gen Bio I, CHM 111 Gen Chem I, PHY 201 Gen Coll Phys I, PHY 241 Univ Phys I, GOL 105 Physical Geology, GOL 106 Historical Geology, or GOL 110 Earth Systems | | PSCS 3110 Cloud Security | 4 | |
| 1 quantitative reasoning in math or statistics | 4 | MTH 263 Calculus I | | PSCS 3111 Information Technology Security System Audits | 4 | |
| | 3-4 | MTH 245 Statistics or MTH 264 Calculus II | | PSCS 3113 Topics in IT Security Defense Countermeasures | 4 | |

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| <p>Can count towards the required 38 hours of electives</p> <p><i>Any credits transferred that do not count toward GW GPAC (Gen. ed. requirements) will be counted towards the 38 required hours in electives.</i></p> | 3-4 | BIO 102 Gen Bio II, CHM 112 Gen Chem II, GOL 105-106-110 Phys Geo-Historical Geo-Earth Systems, PHY 202 Gen Coll Phys II, PHY 242 Univ Phys II MTH 245 Statistics, MTH 264 Calculus II, MTH 265 Calc III, CST 100 Public Speaking CST 110 Human Communication, or World Languages | | 3115 Cyber Investigations and Threat Intelligence | 4 | |
| | 3 | CSC 221 Intro to Problem Solving and Programming | VCCS: Students will learn two languages over the course of the CSC 221-222-223 Sequence. Languages: C++, JAVA, Python | PSCS 3117 Project Management in Information Technology | 4 | |
| | 4 | CSC 222 Object-Oriented Programming | | PSCS 4102 Intrusion Detection and Vulnerability Management | 4 | |
| | 4 | CSC 223 Data Structures | | PSCS 4110 Data Communication and Networking Technologies | 4 | |
| | 3 | CSC 208 Discrete Structures or MTH 288 Discrete Mathematics | | PSCS 4202 Cyber Attack Tools and Techniques | 4 | |
| | 3-4 | CSC 205 Computer Organization, CSC 215 Computer Systems, or MTH 265 Calc III | | | | |
| | 2-5 (Select more courses) | Additional science from above plus CSC 205 Computer Organization, | | | | |

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|---|--|--|--|---------------------------|--|--|
| | as needed to reach credit total of 60) | CSC 215 Computer Systems, CSC Fundamentals of Cyber Security (under dev), EGR 121 Foundations of Engineering, EGR 122 Engineering Design, EGR 270 Fund of Computer Engineering, CST 100 Public Speaking, CST 110 Human Communication, World Languages, MTH 265 Calculus III, MTH 266 Linear Algebra, Prerequisite Courses: MTH 161/162 Precalc I/II, MTH 167 Precalc with Trig | | | | |
| CREDITS PRE-TRANSFER: 60-62 (only 60 will be accepted to GWU) | | | | CREDITS POST-TRANSFER: 60 | | |

TRANSFER GUIDANCE

IMPORTANT LINKS:

- [Cybersecurity Program Website](#)
- **GW College of Professional Studies:** <https://www.cps.gwu.edu/>
- **Register Intent to Transfer:** Please create an account through the www.TransferVirginia.org portal and click College Connect to indicate your intent to use this application to George Washington University.
- **Admissions Info:** <https://www.cps.gwu.edu/undergraduate-admissions>
- **Financial Aid:** <https://financialaid.gwu.edu/>
- **FAFSA - Free Application for Federal Student Aid:** <https://studentaid.gov/>

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Students will work with a dedicated GW advisor regarding course selections.
- Create a schedule for all required courses, pay attention to prerequisites and when courses are offered, and complete your first math and English courses in your first year. For help, see Transfer Steps and Resource Center www.TransferVirginia.org
- Connect with an advisor at your community college and GW College of Professional Studies within your first year. College Connect available in your account of www.TransferVirginia.org

IS THIS DEGREE RIGHT FOR ME?

- Flexible class times with the program offering evening and weekend courses.
- Classes available at three locations: Ashburn, VA, Woodbridge, VA, and Arlington, VA.
- Significant technical and hands on learning using computer labs and virtual environments.

WHAT IS THE IMPACT ON MY DEGREE OF WORK I HAVE ALREADY COMPLETED?

- Students are eligible to transfer credits of transferable coursework from their Associate degree.
- Transfer credit may include dual enrollment coursework from completion of an Associate Degree in HS. It may also be considered for Advanced Placement (AP), International Baccalaureate Credit (IB), College Level Examination Program (CLEP exams), and potentially Credit for Prior Learning.
- Please refer to GW [Undergraduate Admissions](#) for information about maximum credits, minimum scores, and GW course equivalents for AP and IB credits.

IS THIS COLLEGE RIGHT FOR ME?

- Easily transfer current college credits including DE, AP and IB credits.

- No more than 60 credits from a regionally accredited institution may be accepted for transfer.
- Flexible program models in-person and online to accommodate busy lives and adult learners.
- Active Career Services department that provides 1:1 coaching and access to internship, job, and networking opportunities.
- Career advising remains available to alumni for their whole career.
- Fully accredited by the Middle States Commission on Higher Education (MSCHE).
- Discounted GW tuition rates for CPS undergraduate programs.

Learn more about our college at <https://cps.gwu.edu/>

DID YOU KNOW THAT...

- The BPS Cybersecurity program targets competencies defined by the National Initiative for Cyber Security Education (NICE).
- The demand for skilled cybersecurity professionals is on the rise among private employers, the government and nonprofits. The number of unfilled cybersecurity jobs grew by 350% between

2013 and 2021. Industry experts predict there will be 3.5 million job openings worldwide in 2025.

*Source: Cybersecurity Ventures press release (11/21/21).

WHAT CAN I DO WITH THIS DEGREE?

- Unlimited potential: Corporations, federal agencies, and the military are seeking talented, knowledgeable professionals to protect us from our adversaries.

PROGRAM SUCCESSES & HIGHLIGHTS

- Expert Faculty: Learn from nationally and internationally recognized experts in the field.
- Cutting-edge curriculum designed considering key private sector, government and national defense organizations, examining critical cybersecurity issues across multiple domains. GW has been designated a Federal Center for Academic Excellence in Information Assurance Research by the National Security Agency (NSA) and Department of Homeland Security.
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