

LORD FAIRFAX COMMUNITY COLLEGE (LFCC) ADVISING WORKSHEET

Program: AAS in Cybersecurity

Catalog Year: 2016-2017

Student:

Advisor:

Program purpose: This curriculum is designed for those who a) seek employment in the field of cybersecurity (information assurance), b) are presently in IT or a security field and desire to increase their knowledge and update their skills, and c) must augment their abilities in other fields with knowledge and skills in information security. The curriculum is mapped to the Knowledge Units necessary for the NSA/DHS designation of LFCC as a **Center of Academic Excellence in Cyber Defense – Two Year Education (CAE 2Y)**

Transfer Information: Transfer is not the primary purpose of an A.A.S. program, but a transfer pathway is necessary under the CAE 2Y designation. LFCC has arrangements that facilitate the transfer of this degree to selected senior institutions. Students interested in transfer should contact their academic advisor early in the program for specific course requirements. (See specific transfer notes at the end.)

Check	Course	Title	Credits	Grade	
First Semester					
	ENG 111	College Composition I	3		
	ITE 221	PC Hardware and Operating Systems Architectures	3		GMU requires ITE 221
	ITP 100	Software Design	3		
	ITN 100	Introduction to Telecommunications	3		GMU requires ITN 100
	MTH 151	Math for Liberal Arts or higher-level math ¹	3		GMU requires MTH 151, 240, or MTH 271. GWU requires MTH 163 or Proficiency in Pre-Calculus
	SDV 101/100	Orientation to the IT Professions	1		
Second Semester					
	ENG 112	College Composition II	3		
	CST 110	Intro to Speech Communication	3		
	ITP	Programming Elective ²	4		
	ITN 170	Linux Administration	3		
	ITN 260	Network Security Basics	3		
	PED/HLT	Physical Education or Health	1		
Third Semester					
		Approved Humanities/Fine Arts Elective ³	3		
		Approved Social Science Elective ⁴	3		Recommend HIS 112
	ITN 200	Administration of Networks	3		
	ITN 261	Network Attacks, Ethical Hacking	3		
	ITN 262	Network Communication Security	3		
	ITN 266	Network Security Layers	3		
Fourth Semester					
	ITN 263	Firewalls, VPNs and E-Com Security	3		
	ITN 267	Legal Issues in Network Security	3		
	ITN 276	Computer Forensics I	3		
		Natural Science with Lab ⁵	4		
	ITN/ITP	Networking/Programming Elective ⁶	3		
		Total	67		

IT courses used for this program may not be more than 6 years old, unless approved by division dean.

¹Students planning to transfer to another four-year college are encouraged to see advisor prior to math selection so as to ensure proper math required for the student's transfer institution. GWU requires math course to achieve a C or better.

² GMU requires Java language for programming courses (ITP 120, ITP 220)

The College reserves the right to make changes to any provision or requirement within these sources, as well as changes to any curriculum or program, whether during a student's enrollment or otherwise.

³Students may select humanities elective from approved list. *Students pursuing the Bachelors of Professional Studies in Cybersecurity at George Washington University are encouraged to take HIS (a social science elective at LFCC), PHI, REL, ENG 200-level literature courses and Foreign Language 200-level courses; . Students pursuing the Bachelors of Applied Science in Cybersecurity at George Mason University are encouraged to take ART100, ART 101, ART 102 (Fine Arts)*

⁴Students may select social science elective from approved list on Page 41. *Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take HIS 101, HIS 102, or HIS 112 as their LFCC social science elective. However, HIS 111 is transferrable as Global Understanding at GMU. Students pursuing the Bachelors of Professional Studies in Cybersecurity at George Washington University are encouraged to take HIS 101, HIS 102, HIS 111 or HIS 112 as their LFCC social science elective. For this requirement, it is best for the student to see an LFCC advisor to ensure proper sequencing.*

⁵If transferring to GMU/GWU, students may select Science with Laboratory 4 credit elective from the approved list on page 41 except for BIO 141-142 (Human Anatomy and Physiology)

⁶Students may select one of the following courses: ITP 120, ITP 220, ITP 251, ITN 124, ITN 208; if transferring to GMU, select one of the following: ITP 120, ITP 220, ITN 106, ITN 208.

Special Notes:

1. Student transferring to the BAS in Cybersecurity at GMU should take the following courses external to this degree program before transferring:
 - ITE 115 (Variable credit corresponding to GMU IT 194: see advisor);
 - Recommending to take course prior to entering the degree program
 - ENG 241 Literature (Meet GMU's Literature requirement)
 - Two social science electives from approved list on page 41 (See note 4 for HIS 111 as Global Understanding)
 - Science w/o lab requirement will need to be satisfied at GMU
2. Students transferring to the BPS in Cybersecurity at GWU should take the following course external to this degree program before transferring:
 - One social science elective from approved list on page 41

George Mason University: Students planning on transferring to GMU's BAS in Cybersecurity must have completed the AAS in Cybersecurity degree with a minimum 2.0 GPA. GMU has waived the age requirements for the BAS in Cybersecurity degree. Students should meet with the GMU academic advisor to sign the BAS Age Waiver form.

George Washington University: GWU requires that all transfer credits have a C or better and the GPA to be at least 2.7.

Earning the CAECD-2Y designation on a student's transcript requires a 3.0 GPA in the core cybersecurity program courses (ITE 221, ITN 100, ITN 260, ITN 261, ITN 262, ITN 263, ITN 266, ITN 267).

Important Statement: This does not constitute a guarantee of admission or of transferability, as this is a guideline based on the most recent information provided to us by our senior institution partners, Students should check with the advisors at the senior institution into which they intend to transfer prior to applying for admission..

Web Site References:

GWU Cybersecurity program

http://cps.gwu.edu/cybersecurity-bachelors?utm_source=Cybersecurity&utm_campaign=Sara%27s+Email+-+Cyber+Undergrad&utm_medium=email

Bachelors of Professional Studies in Cybersecurity

GMU

<http://bas.gmu.edu/bascybersecurity/> and here: <http://bas.gmu.edu/cybersecurity/>. The degree is a Bachelor of Applied Science, so it's technically hosted by the Provost's Office, not the AIT department. (Ignore the GMU reference "Builds on NVCC program....")

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