Appendix D

Course Requirements for Computer Science with a Specialization in Cyber Operations Master of Science (30 Credits)

- 1. The DSU Master of Science degree in Computer Science with a specialization in Cyber Operations requires the completion of at least thirty (30) hours of course work distributed among required core courses and specialization courses.
- 2. Three (3) graduate credits will be awarded for each eighty (80) contact hours of NSA-sponsored coursework, not to exceed twelve (12) credit hours for any given course or combination of courses.
- 3. No more than ten (10) years have passed since completion of the course to be recorded. Training that is older than 10 years may be approved by the DSU program coordinator if sufficient currency can be shown to have been maintained in the area by the applicant.
- 4. Students will complete the remaining eighteen (18) credit hours toward completion of the degree through online course delivery.
- 5. Letters of recommendation will not be required in the application process.
- 6. Four (4) of the core courses must be taken through DSU, plus CSC 718 and CSC 723 in the Cyber Specialization courses, totaling eighteen (18) credits
- 7. The remaining twelve (12) credits may be earned through the articulation agreement between DSU and NCU, offering students a flexible approach to allow them to apply specific work-related training, as defined in this document.
 - a. Twelve (12) graduate credit hours will be granted to enrollees who have completed CYBR3420 or CYBR3422 and have not previously obtained credit as part of an undergraduate degree program. Three credits (3) credits for CSC 786 Cyber Problems * in the Core and nine (9) credits of courses in the Cyber Operations Specialization. *.
 - b. For other NCU-sponsored coursework, coursework will be granted on a per-course basis within the parameters of this agreement to 1) enrollees who have not completed CYBR3420 or CYBR3422 and 2) enrollees who have completed CYBR3420 and CYBR3422 programs but have already applied the credits towards an undergraduate degree. (*See Per-course Credit Table below*)

DSU COURSE NUMBER, TITLE and NUMBER of CREDITS			NCU COURSE NUMBER, TITLE and NUMBER of CREDITS		and NUMBER of CREDITS
Core Classes	3	15			
CSC 705	Design and Analysis of Algorithms	3			
CSC 712	Data Structures	3			
CSC 720	Theory of Computation	3			
CSC 722	Machine Learning Fundamentals	3			
CSC 786	Cyber Problems *	3			
Cyber Opera	ations Specialization Courses	15			
CSC 718	Operating Systems and Parallel Programming	3			
CSC 723	Machine Learning for Cyber Security	3			
CSC 748	Software Exploitation *	3			
CSC 773	Mobile Communication and Advanced Network Security *	3			
INFA 723	Cryptography *	3			
	Total Program Credits	30			
			NCU COURSE NUMBER, TITLE and NUMBER of CREDITS		
	Per-course Credit Table		Course Code	Hours	Transfer Credits

Appendix D

Appendix D

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2.	
3.	
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Student's Last Name	