College of DuPage – DePaul University, College of Computing and Digital Media

Program Plan for Associate of Applied Science in Computing and Information Technology and Associate of Applied Science in Cybersecurity and Defense to the Bachelor of Science in Cybersecurity and Bachelor of Science in Network Engineering and Security

This program plan agreement is entered into by College of DuPage Computing and Information Technology (CIT) program faculty and DePaul University Computing and Digital Media (CDM) faculty for the purpose of creating degree pathways for College of DuPage students who successfully complete the Associate of Applied Science in CIT to the BS Cybersecurity and Associate of Applied Science in Cybersecurity and Defense to both the BS Cybersecurity and BS Network Engineering and Security.

College of DuPage and DePaul University faculty agree to the following:

> College of DuPage and DePaul University faculty will collaborate and coordinate on course and program content to facilitate transfer and eliminate course duplication, in accordance with program and degree requirements of their respective schools.
>
> College of DuPage CIT program faculty agree to assist and advise all College of DuPage students enrolled in the Associate of Applied Science in programs who desire to continue their studies toward the achievement of the Bachelor of Science in Cybersecurity or Network Engineering and Security at DePaul University's College of Computing and Digital Media.
>
> DePaul University Computing and Digital Media faculty agree to accept all course credit completed at College of DuPage in accordance with the mutually agreed upon program plan recommendations below. Up to 66 semester/99 quarter hours of College of DuPage credit will be applied to the DePaul degree.
>
> College of DuPage CIT and DePaul University CDM faculty agree to periodically, minimally one time per year, review the course recommendations and to update and maintain them in keeping with current curricular requirements.
>
> The faculty will inform one another when changes to course, program, and/or degree requirements are made.

College of DuPage students are strongly recommended to join the DePaul Admission Partnership Program (DAPP) to receive the full benefits of this agreement. Through DAPP, students will be counseled and advised by both schools as to the courses to complete which will fulfill both associate degree and bachelor degree requirements. The program plan must be followed for students to receive maximum transfer credit towards the bachelor degree. The recommended courses provide the academic preparation and prerequisite requirements for the DePaul's Bachelor of Science in Cybersecurity or Network Engineering and Security.

In order to retain current and dynamic curriculum course content, required courses and degree requirements are subject to frequent changes. The DePaul Admission Partnership Program provides the means to keep students up to date with the most recent information about program requirements at both College of DuPage and DePaul University, as well as lock their degree requirements to the catalog in place at the time they join DAPP. Students not participating in DAPP will be subject to changes in program requirements that take place at any point in their enrollment at College of DuPage.

College of DuPage – DePaul University, College of Computing and Digital Media

This following plans are **RECOMMENDED** courses sequence for students interested in pursuing a degree from DePaul's College of Computing and Digital Media in Cybersecurity or Network Engineering and Security. It does not represent a contract, nor does it guarantee course availability. If these program plans are followed, students will earn an Associate of Applied Science (AAS) degree from the College of DuPage. By following either of the the degree plans below, students will be able to complete the noted Bachelor of Science degrees within a two year time frame as a full-time student.

Transfer courses and their equivalencies, and program requirements change as courses and programs are updated frequently. For the most current information, visit DePaul University's Transfer Center at: www.DePaul.edu/TransferCenter **Students are strongly encouraged to join the DePaul Admission Partnership Program (DAPP) to receive full benefits of this program plan.**

AAS Cyber Security and Defense

Recommended College of DuPage course for AAS Cybersecurity and Defense for transfer to BS Cybersecurity or BS Network Engineering and Security at DePaul University

COD Courses	Hours	DePaul Equivalent
CIT 1121 Introduction to Networks	3	IT 263 Applied Networks and Security
CIT 1122 Routing and Switchin Essentials	3	NET 363 Introduction to Local Area Networks
CIT 1710 Introduction to Servers	3	NET 311 Computers in Telecommunications Systems
CIT 2510 Advanced Server Administration	3	NET 300-level Transfer Credit
Math 1431 Precalculus	5	MAT 130 Precalculus
CIT 1123 Scaling Networks	3	NET 365 Network Interconnection Technologies
CIT 2651 Computer Forensics I	3	CSEC 320 Computer Forensic and Incident Response
CIT 2511 Advanced Server Configuration	3	NET 300-level Transfer Credit
ENGLI 1101 English Composition I	3	WRD 103 English Composition I
Speech 1100 OR Speech 1150	3	CMN 104 Public Speaking or ORGC 201 Business & Professional Communication
CIT 2251 Enterprise Network Security	3	NET 377 Fundamentals of Network Security
CIT 1640 Network Security Fundementals	3	CSEC 340 Fundamentals of Information Assurance
CIS 1450 Introduction to Linux/Unix Operating Systems	3	NET 200-level Transfer Credit
CIT 2173 Virtualization: Install, Configure, Manage	3	NET 200-level Transfer Credit
CIT 2640 Ethical Hacking	3	CSEC 388 Security Testing and Assessment
Program Elective: CIS programming course (Python recommended for BS Cybersecurity)	4	
Program Elective - Any 2000-level CIT Course*	3	
Program Elective - Any 2000-level CIT course*	3	
Gen Ed - Social and Behavioral Science (Choose from DePaul transfer guide)*	3	
Gen Ed - Humanities and Fine Arts (Choose from DePaul transfer guide)*	3	
TOTAL CREDITS	63	

Total Hours for Associate of Applied Science: 63 semester hours = 94.5 quarter hours

AAS Cybersecurity and Defense

Courses to complete at DePaul for BS Network Engineering and Security

DePaul requirement in major - BS-Network Engineering and Security	DePaul hours
CSC 241 Introduction to Computer Science I OR CSC 243 OR IT 211	4
IT 130 Introductory Computing for the Web	4
IT 223 Data Analysis	4
IT 240 Introduction to Databases	4
NET 362 Principles of Data Communications (Formerly TDC 362)	4
WRD 204 Technical Writing	4
CSEC 378 Host Based Security (Formerly CNS 378)	4
NET 364 Voice Communications Technologies (Formerly TDC 364)	4
NET 371 Wireless Communications Networks (Formerly TDC 371)	4
NET 372 Wan Services (Formerly TDC 372)	4
NET 375 Network Protocols (Formerly TDC 375)	4
NET 376 Network Project (Formerly TDC 376) (Capstone)	4
LSP - WRD 104 Composition and Rhetoric II	4
LSP-LSP 200 Seminar on Multiculturalism in the US	4
LSP-Experiential Learning	4
LSP-Arts & Literature	8
LSP-Religious Dimensions	8
LSP-Philosophical Inquiry	8
LSP-Social, Cultural and Behavioral Inquiry	4
LSP- Scientific Inquiry	4
LSP-Historical Inquiry	8

Total Quarter Hours   100

LSP = Liberal Studies Program

Students can select from a variety of designated DePaul courses to complete their Liberal Studies Program requirements. More information can be found on the the Liberal Studies Program website.

This degree plan includes course waivers for one Social Cultural and Behavioral Inqury course (4 quarter hours) and two open elective courses (8 quarter hours) as approved by the College of Computing and Digital Media.

AAS Cybersecurity and Defense

Courses to complete at DePaul for BS Cybersecurity

DePaul requirement in major - BS-Cybersecurity	DePaul hours
CSC 242 Introduction to Computer Science II OR CSC 243 I AND 1 Major Elective	4
MAT 140 Discrete Mathematics I	4
CSC 233 Codes and Ciphers OR CSC 333 Cryptology	4
CSC 300 Data Structures I	4
CSC 301 Data Structures II	4
CSC 355 Database Systems	4
CSC 373 Computer Systems I	4
CSC 374 Computer Systems II	4
NET 379 Telecommunication and Network Security Practicum (Formerly TDC 379)	4
CSEC 378 Host Based Security (Formerly CNS 378)	4
CSEC 228 Legal, Ethical and Social Issues in Information Security (Formerly CNS 228)	4
CSEC 394 Information Systems Security Engineering I (Formerly CNS 394)	4
CSEC 395 Information Systems Security Engineering II (Formerly CNS 395) (Capstone)	4
LSP - WRD 104 Composition and Rhetoric II	4
LSP-LSP 200 Seminar on Multiculturalism in the US	4
LSP-Experiential Learning	4
LSP-Arts & Literature	8
LSP-Religious Dimensions	8
LSP-Philosophical Inquiry	8
LSP-Social, Cultural and Behavioral Inquiry	4
LSA – Scientific Inquiry	4
LSP-Historical Inquiry	4
Total Quarter Hours	100

LSP = Liberal Studies Program

Students can select from a variety of designated DePaul courses to complete their Liberal Studies Program requirements. More information can be found on the the Liberal Studies Program website.

This degree plan includes course waivers for one Social Cultural and Behavioral Inqury course (4 quarter hours), one Historical Inquiry course (4 quarter hours) and two open elective courses (8 quarter hours) as approved by the College of Computing and Digital Media.

AAS Computer and Information Technology

Recommended College of DuPage courses for AAS Computer and Information Technology for transfer to BS Cybersecurity at DePaul University

COD Courses	Hours	DePaul Equivalent
CIT 1121 Introduction to Networks	3	IT 263 Applied Networks and Security
CIT 1122 Routing and Switchin Essentials	3	NET 363 Introduction to Local Area Networks
CIT 1100 IT Fundamentals	3	Transfer Elective
CIT 1111 Computer and Hardware Maintenance	3	NET 200-level Transfer Credit
CIT 1123 Scaling Networks	3	NET 365 Network Interconnection Technologies
CIT 2150 Wireless Network Administration	3	NET 300- level Transfer Credit
CIT 1112 Computer Operating Systems	3	Transfer Elective
CIS/CIT 1450 Introduction to Linux/Unix OS	3	IT 200-level Transfer Credit
CIS/CIT 2455 Linux System Administration	3	CSEC 378 Host Based Security
CIT 1710 Introduction to Servers	3	NET 311 Computers in Telecommunications Systems
CIT 1640 Network Security Fundementals	3	CSEC 340 Fundamentals of Information Assurance
CIT 2410 Enterprise Internet Telephony (NET 364)	3	NET 364 Voice Communications Technology
CIT 2710 Computer Information Technology Capstone	3	NET 300-level Transfer Credit
Program elective - CIT 2251 Enterprise Network Security (NET 377)	3	NET 377 Fundamentals for Network Security
Program Elective: CIS programming course (Python recommended for BS Cybersecurity)	4	
Math 1431 Precalculus	5	MAT 130 Precalculus
ENGLI 1101 English Composition I	3	WRD 103 Composition and Rhetoric I
Speech 1100 OR Speech 1150 (CMN 104 or ORGC 201)	3	CMN 104 Public Speaking or ORGC 201 Business & Professional Communication
Gen Ed - Social and Behavioral Science (Choose from DePaul transfer guide)*	3	
Gen Ed - Humanities and Fine Arts (Choose from DePaul transfer guide)*	3	
TOTAL HOURS	63	

Total Hours for Associate of Applied Science: 63 semester hours = 94.5 quarter hours

Students must earn a grade of 'C' or better to apply courses to the DePaul major requirements. No more than seven (7) COD courses may be applied toward the major at DePaul. *Courses should be selected in consultation with College of DuPage CIT faculty and DePaul DAPP counselors. Students should select transferrable coursework from COD as noted in DePaul University transfer credit tools at www.depaul.edu/admission-and-aid/types-of-admission/transfer-student/transferring-your-courses.

College of DuPage – DePaul University, College of Computing and Digital Media

AAS Computer and Information Technology

Courses to complete at DePaul for BS Cybersecurity

DePaul requirement in major - BS-Cybersecurity	DePaul hours
CSC 242 Introduction to Computer Science II OR CSC 243 I AND 1 Major Elective	4
MAT 140 Discrete Mathematics I	4
CSC 233 Codes and Ciphers OR CSC 333 Cryptology	4
CSC 300 Data Structures I	4
CSC 301 Data Structures II	4
CSC 355 Database Systems	4
CSC 373 Computer Systems I	4
CSC 374 Computer Systems II	4
NET 379 Telecommunication and Network Security Practicum (Formerly TDC 379)	4
CSEC 320 Computer Forensic and Incident Response (Formerly CNS 320)	4
CSEC 388 Security Testing and Assessment	4
CSEC 228 Legal, Ethical and Social Issues in Information Security (Formerly CNS 228)	4
CSEC 394 Information Systems Security Engineering I (Formerly CNS 394)	4
CSEC 395 Information Systems Security Engineering II (Formerly CNS 395) (Capstone)	4
LSP - WRD 104 Composition and Rhetoric II	4
LSP-LSP 200 Seminar on Multiculturalism in the US	4
LSP-Experiential Learning	4
LSP-Arts & Literature	4
LSP-Religious Dimensions	8
LSP-Philosophical Inquiry	8
LSP-Social, Cultural and Behavioral Inquiry	4
LSP – Scientific Inquiry	4
LSP-Historical Inquiry	4
Total Quarter Hours	100

LSP = Liberal Studies Program

Students can select from a variety of designated DePaul courses to complete their Liberal Studies Program requirements. More information can be found on the the Liberal Studies Program website.

This degree plan includes course waivers for one Arts and Literature coure (4 quarter hours), one Social Cultural and Behavioral Inqury course (4 quarter hours), one Historical Inquiry course (4 quarter hours) and two open elective courses (8 quarter hours) as approved by the College of Computing and Digital Media.