

Degree Program Course List (DPCL) of major requirements for Honors students entering Loyola in 2022-2023

NAME:	B.S. COMPUTER SCIENCE: CYBERSECURITY (CSEC/COSC.BS.CSEC.H) (CIP 11.0701)		DATE:
Honors Curriculum - 41 Credits		MAJOR.....54 Crs	Cyber Security Electives9 crs
Foundation Requirements	Crs/Grd		*CSEC Electives (choose from):
First-Year Seminar H121	3 _____	Computer Science.....27 Crs	Ethical Hacking/Penetration Testing
Ignatian Colloquium H193 or H194	1 _____	Intro to Programming I	COSC A341
Social Justice Seminar H396	3 _____	COSC A211 _____ 3 _____	Digital Forensics COSC A342
Honors Ethics H215 (check off once completed)	<input type="checkbox"/>	Intro to Programming II	Internet Technologies COSC A319
		COSC A212 _____ 3 _____	Artificial Intelligence COSC A405
		Object-Oriented Programming	Machine Learning COSC A406
Honors Disciplinary Requirements		COSC A217 _____ 3 _____	Database Management COSC A430
Creative Arts & Culture (H-level or approved performance course(s))	3 _____	Intro to Relational Databases	Comm/Network Systems COSC A471
		COSC A270 _____ 3 _____	Any one 200+ FRSC or CRIM
History I H-level _____	3 _____	Computer Organization	
History II (H-level, HIST-A/Q/P200+ course, or AP credit)	3 _____	COSC A315 _____ 3 _____	The last 30 credits of the degree must be completed at Loyola N.O.
		Data Structures	
Literature H-level _____	3 _____	COSC A317 _____ 3 _____	See your Academic Progress Report for your requirements, options & degree progress. See the Bulletin for course descriptions. See LORA for course availability by semester.
Literature II (H-level, ENGL-N200+ course, or AP credit)	3 _____	Languages and Paradigms	
		COSC A361 _____ 3 _____	
Mathematics A257 or H257 Calculus I	4 _____	Operating Systems	
Natural Science (H-level, A101+ science course, or AP credit)	3 _____	COSC A365 _____ 3 _____	
		Software Engineering	
Philosophy I H-level _____	3 _____	COSC A451 _____ 3 _____	GENERAL ELECTIVES.....15 Crs
Philosophy II (H-level or PHIL-U/W200+ course)	3 _____		_____ 3 _____
		Cyber Security Core15 crs	
Religious Studies I H-level _____	3 _____	Introduction to Cybersecurity	_____ 3 _____
Religious Studies II (H-level or 200+ RELS course)	3 _____	COSC A242 _____ 3 _____	
		Computing Ethics	_____ 3 _____
		COSC A241 _____ 3 _____	
Honors Thesis Sequence		Corporate Cyber Strategy	_____ 3 _____
Research Project COSC A498 (3 crs. in the major)	<input type="checkbox"/>	COSC A243 _____ 3 _____	
		Networking	_____ 3 _____
		COSC A319 or COSC A471	
¹ May be satisfied with an ethics course in the major; if not, an honors ethics course must be used to satisfy at least one Honors Disciplinary Requirement		_____ 3 _____	
		Cryptography and Applications	
Thesis work is a dedicated process that spans multiple semesters, and you may be asked to take additional scaffolding courses. Please consult an honors advisor about what steps are right for you.		COSC A441 _____ 3 _____	
			Courses used in the major cannot also be used to satisfy requirements for a minor: Non-major courses WILL be applied to minors as appropriate.
			Honors Curriculum.....41 crs
			Major.....54 crs
			Adjuncts.....10 crs
			General Elective.....15 crs
			Total.....120 crs