

Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2022-23: NOT AN OFFICIAL RECORD - FOR ADVISING USE ONLY

NAME: **B.S. COMPUTER SCIENCE - CYBERSECURITY (CSEC/COSC.BS.CSEC) (CIP 11.0701)** **DATE:**

<p>English Composition Placement Take ENGL T122, then choose a Writing About Literature (any N-coded course). AP, IB, CLEP, transfers, & dual-enrollment can fulfill each requirement. Students with WAL credit must still satisfy ENGL T122.</p>	<p>Mathematics Placement: See current Bulletin for Criteria, and see degree-audit for LUPL scores.</p> <p>_____ Register MathA257/Calculus I _____ Register MathA118/Pre-Calculus _____ Register MathA110/Algebra</p>	<p>MAJOR.....54 Crs Computer Science.....27 Crs Intro to Programming I Cosc A211 _____ 3 _____ Intro to Programming II Cosc A212 _____ 3 _____ Object-Oriented Programming Cosc A217 _____ 3 _____</p>	<p>Cyber Security Electives.....9 Crs CSEC Elective* _____ 3 _____ CSEC Elective* _____ 3 _____ CSEC Elective* _____ 3 _____</p>	<p>*CSEC Electives (choose from:) Ethical Hacking/ Penetration Testing, COSC A341 Digital Forensics, COSC A342 Internet Technologies, COSC A319 Artificial Intelligence, COSC A405 Machine Learning, COSC A406 Database Management, COSC A430 Comm/Network Systems COSC A471 Any one 200+ FRSC or CRIM</p>
<p align="center">LOYOLA CORE - 40 Credits</p>		<p>Intro to Relational Databases</p>	<p>Practical Experience.....3 Crs Internship</p>	<p>The last 30 credits of the degree must be completed at Loyola N.O.</p>
<p>FOUNDATION COURSES Crs/Grade First-Year Seminar T121 _____ 3 _____ Engl T122: Critical Reading & Writing _____ 3 _____ Math A257: Calculus I _____ 4 _____ Scie T129: Investigating Nature _____ 3 _____ 13</p>		<p>Cosc A270 _____ 3 _____ Computer Organization Cosc A315 _____ 3 _____ Data Structures Cosc A317 _____ 3 _____ Languages and Paradigms Cosc A361 _____ 3 _____ Operating Systems Cosc A365 _____ 3 _____</p>	<p>ADJUNCT.....10 Crs Calculus II Math A258 _____ 4 _____ Statistical Inference Math A260 _____ 3 _____ Linear Algebra (A200) or Math 300+ _____ 3 _____</p>	<p>See your degree-audit for your requirements, options, & degree-progress. See the Bulletin for course-descriptions. See LORA for course availability by Semester.</p>
<p>KNOWLEDGE-VALUE COURSES Creative Arts and Cultures _____ 3 _____ Hist I _____ 3 _____ Hist II _____ 3 _____ Phil I: Reasoning _____ 3 _____ Phil II: Knowledge & Morality _____ 3 _____ Rels I: Christian Traditions _____ 3 _____ Rels II: World Religions _____ 3 _____ Social Science _____ 3 _____ Scie II: (Fulfilled in Major) _____ 0 N/A _____ Writing About Literature _____ 3 _____ 27</p>		<p>Software Engineering Cosc A451 _____ 3 _____ Cyber Security Core:15 Crs Introduction to Cybersecurity Cosc A242 _____ 3 _____ Computing Ethics Cosc A241 _____ 3 _____ Corporate Cyber Strategy Cosc A243 _____ 3 _____ Networking COSC A319 or COSC A471 _____ 3 _____ Cryptography and Applications Cosc A441 _____ 3 _____</p>	<p>GENERAL ELECTIVES.....16 Crs</p>	<p>Loyola Core.....40 crs Major.....54 crs Adjuncts.....10 crs General Elective.....16 crs Total.....120 crs</p> <p>GPA: Must achieve 2.0 in Major, Minor (if declared), and Loyola Cumulative.</p> <p>Loyola Core requirements are governed by the catalog year that a student is admitted. See Bulletin.</p> <p>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.</p>