

**Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2020-21: NOT AN OFFICIAL RECORD - FOR ADVISING USE ONLY**

**NAME:**

**B.S. COMPUTER SCIENCE - CSEC (CYBERSECURITY) (CIP 11.0701)**

**DATE:**

<p><b>English Composition Placement:</b> ACT ENGL score 21 or above SATR-EBRW score 500 or above Register for ENGL-T122 _____</p>	<p><b>Mathematics Placement:</b> See current Bulletin for Criteria, and see Academic Progress Report/U-Achieve for LUPL scores.</p>	<p><b>MAJOR.....54 Crs</b></p>	<p><b>Cyber Security Electives.....9 Crs</b></p>	<p><b>*CSEC Electives (choose from:)</b></p>
<p>ACT ENGL score 20 or below SATR-EBRW score 499 or below Register for ENGL-A100 _____</p>	<p>_____ Register MathA257/Calculus I _____ Register MathA118/Pre-Calculus _____ Register MathA110 &amp; A111</p>	<p><b>Computer Science.....27 Crs</b></p>	<p>CSEC Elective* _____3_____</p>	<p>Ethical Hacking/ Penetration Testing, COSC A341</p>
<p align="center"><b>LOYOLA CORE - 40 Credits</b></p>		<p>Intro to Programming I</p>	<p>CSEC Elective* _____3_____</p>	<p>Internet Technologies, COSC A319</p>
<p><b>FOUNDATION COURSES</b> Crs/Grade</p>		<p>Cosc A211 _____3_____</p>	<p>CSEC Elective* _____3_____</p>	<p>Artificial Intelligence, COSC A405</p>
<p>First-Year Seminar T121 _____3_____</p>		<p>Intro to Programming II</p>	<p>CSEC Elective* _____3_____</p>	<p>Machine Learning, COSC A406</p>
<p>Engl T122: Critical Reading &amp; Writing _____3_____</p>		<p>Cosc A212 _____3_____</p>	<p>CSEC Elective* _____3_____</p>	<p>Database Management, COSC A430</p>
<p>Math A257: Calculus I _____4_____</p>		<p>Object-Oriented Programming</p>	<p><b>Practical Experience.....3 Crs</b></p>	<p>Comm/Network Systems COSC A471</p>
<p>Scie T129: Investigating Nature _____3_____</p>		<p>Cosc A217 _____3_____</p>	<p>Internship</p>	<p>Any one 200+ FRSC or CRIM</p>
<p><b>KNOWLEDGE-VALUE COURSES</b></p>		<p>Intro to Relational Databases</p>	<p>COSC A497 _____3_____</p>	<p>The last 30 credits of the degree must be completed at Loyola N.O.</p>
<p>Creative Arts and Cultures _____3_____</p>		<p>Cosc A270 _____3_____</p>	<p><b>ADJUNCT.....10 Crs</b></p>	<p>See your Academic Progress Report for your requirements, options, &amp; degree-progress. See the Bulletin for course-descriptions. See LORA for course availability by Semester.</p>
<p>Hist I _____3_____</p>		<p>Computer Organization</p>	<p>Calculus II</p>	<p>Loyola Core.....40 crs</p>
<p>Hist II _____3_____</p>		<p>Cosc A315 _____3_____</p>	<p>Math A258 _____4_____</p>	<p>Major.....54 crs</p>
<p>Phil I: Reasoning _____3_____</p>		<p>Data Structures</p>	<p>Statistical Inference</p>	<p>Adjuncts.....10 crs</p>
<p>Phil II: Knowledge &amp; Morality _____3_____</p>		<p>Cosc A317 _____3_____</p>	<p>Math A260 _____3_____</p>	<p>General Elective.....16 crs</p>
<p>Rels I: Christian Traditions _____3_____</p>		<p>Languages and Paradigms</p>	<p>Linear Algebra (A200) or Math 300+ _____3_____</p>	<p><b>Total.....120 crs</b></p>
<p>Rels II: World Religions _____3_____</p>		<p>Cosc A361 _____3_____</p>	<p><b>GENERAL ELECTIVES.....16 Crs</b></p>	<p>GPA: Must achieve 2.0 in Major, Minor (if declared), and Loyola Cumulative.</p>
<p>Social Science _____3_____</p>		<p>Operating Systems</p>	<p>_____3_____</p>	<p>Loyola Core requirements are governed by the catalog year that a student is admitted. See Bulletin.</p>
<p>Scie II: (Fulfilled in Major) _____0 N/A_____</p>		<p>Cosc A365 _____3_____</p>	<p>_____3_____</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>
<p>Writing About Literature _____3_____</p>		<p>Software Engineering</p>	<p>_____3_____</p>	
<p align="right"><b>27</b></p>		<p><b>Cyber Security Core: .....15 Crs</b></p>	<p>_____3_____</p>	
		<p>Introduction to Cybersecurity</p>	<p>_____3_____</p>	
		<p>Cosc A242 _____3_____</p>	<p>_____3_____</p>	
		<p>Computing Ethics</p>	<p>_____3_____</p>	
		<p>Cosc A241 _____3_____</p>	<p>_____3_____</p>	
		<p>Corporate Cyber Strategy</p>	<p>_____3_____</p>	
		<p>Cosc A243 _____3_____</p>	<p>_____3_____</p>	
		<p>Networking</p>	<p>_____3_____</p>	
		<p>COSC A319 or COSC A471</p>	<p>_____1_____</p>	
		<p>Cryptography and Applications</p>	<p>_____3_____</p>	
		<p>Cosc A441 _____3_____</p>	<p>_____3_____</p>	