

Degree Program Course List (DPCL) of major requirements for students entering Loyola in 2020-21

NAME: _____ **B.S. COMPUTATIONAL MATHEMATICS - MATC (CIP 27.0303)** **DATE:** _____

UHP CURRICULUM: MATC - 40 Credits		MAJOR.....37 Crs	ADJUNCT.....11 Crs	
Foundation Requirements	Crs/Grd	Intro Linear Algebra		Language- Choose from Spoken A100, A101, A200, A201 or Classical Language A100, A101, A250, A251-A499. Students are not required to take language beyond the 201 level.
First-Year Seminar H121	3 _____	A200 _____ 3 _____	Intro to Programming I	
Ignatian Colloquium H193 or H194	1 _____	Calculus I	Cosc A211 _____ 3 _____	This 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.
Social Justice Seminar H396	3 _____	A257 (See Core/Foundation) _____ 0 _____	Intro to Programming II	
Honors Ethics H215* (check off once completed)	<input type="checkbox"/>	Calculus II	Cosc A212 _____ 3 _____	
		A258 _____ 4 _____	Sci II: Phys-A102/A104, Electromag & Rel/Lab _____ 4/1 _____	
Disciplinary Requirements		Calculus III	GENERAL ELECTIVES.....26 Crs	Honors requirements are governed by the catalog year that a student is admitted.
Creative Arts & Culture (H-level or approved performance course(s))	3 _____	A259 _____ 3 _____	_____ 3 _____	
_____ 3 _____		Applied Scientific Computing	_____ 3 _____	Honors GPA: Must achieve 3.3 in Major, Minor (if declared), and Loyola cumulative.
History I H-level _____ 3 _____		A271 _____ 3 _____	_____ 3 _____	
History II (H-level, HIST-A/Q/P200+ course, or AP credit)	3 _____	Intro Differential Equations	_____ 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.
_____ 3 _____		A310 _____ 3 _____	_____ 2 _____	
Literature H-level _____ 3 _____		Math Probability	LANGUAGE.....6 Crs	Honors Curriculum.....40 crs Language.....6 crs Major.....37 crs Adjuncts.....11 crs General Elective.....26 crs Total.....120 crs
Mathematics A257 or H257 Calculus I	4 _____	A340 _____ 3 _____	Placement Level	
Physics A101/A103 Intro Mechanics /Lab	4/1 _____	Statistics Theory & Methods	_____ 3 _____	
Philosophy I H-level _____ 3 _____		A341 _____ 3 _____	_____ 3 _____	
Philosophy II (H-level or PHIL-U/W200+ course)	3 _____	Computational Mathematics	_____ 3 _____	
_____ 3 _____		A375 _____ 3 _____	_____ 3 _____	
Religious I Studies H-level _____ 3 _____		Advanced Calculus I	_____ 3 _____	
Religious Studies II (H-level or a 200+ RELS course)	3 _____	A410 _____ 3 _____	_____ 2 _____	
_____ 3 _____		Math Elect* _____ 3 _____	LANGUAGE.....6 Crs	
Honors Thesis Sequence		Math Elect* _____ 3 _____	Placement Level	
Research Project MATH A498 (3 crs. in the major) <input type="checkbox"/>		*A300-400 level	_____ 3 _____	
		Research Project	Higher Level	
		A498 _____ 3 _____	_____ 3 _____	
* 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				