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 - GAME PROGRAMMING (CSGP/COSC.BS.GAME)** (CIP 11.0701) **DATE:**

English Composition Placement
Take ENGL T122, then choose a Writing About Literature (any N-coded ccourse). AP, IB, CLEP, transfers, & dual-enrollment can fulfill each requirement. Students with WAL credit must still satisfy ENGL T122.

Mathematics Placement:
See current Bulletin for Criteria, and see degree-audit for LUPL scores.

_____ Register MathA257/Calculus I
_____ Register MathA118/Pre-Calculus
_____ Register MathA110/Algebra

LOYOLA CORE - 40 Credits

FOUNDATION COURSES Crs/Grade

First-Year Seminar T121 _____ 3_____
ENGLT122: Critical Reading & Writing _____ 3_____
MATHA257: Calculus I _____ 4_____
SCIET129: Investigating Nature_____ 3_____
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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 Adjuncts)_____ 0_N/A_
Writing About Literature _____ 3_____
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Use your degree-audit to keep this document up to date.

See your degree-audit for your requirements, options, & degree-progress. See the Bulletin for course-descriptions. See LORA for course-availability by Semester.

MAJOR.....42 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____
Intro to Computer Graphics
Cosc A280_____3____
Computer Organization
Cosc A315_____3____
Data Structures
Cosc A317_____3____
Languages and Paradigms
Cosc A361_____3____
Operating Systems
Cosc A365_____3____
Software Engineering
Cosc A451_____3____

Game Programming Electives*.....9 crs

_____3____
_____3____
_____3____

Practical Experience/Internship.....6 Crs

Internship/COSC A497_____3____
Capstone/COSC A426_____3____

ADJUNCT.....6 Crs

Intro to Linear Algebra
MATH A200_____3_____

Choose one from the following:
MATH A204, Discrete Math Structures
MATH A258, Calculus II (3 crs w/1 cr to GE)
MATH A260, Statistical Inference
MATH A271, Applied Scientific Computing
PHIL A206, Intro to Symbolic Logic
_____3____

GENERAL ELECTIVES.....32 Crs

***Game Programming Electives**
Must choose three with at least one from each pool.

Artistic Pool
CMMN O202 or X237
DSGN M276 or M400
ENGLA222 or ENGLA444
ENGL A376 or ENGL N205
Digital Audio Production: MUGN M225, or
Any one Visual Arts: VISA A###

Technical Pool
Internet Technologies: COSC A319
Artificial Intelligence: COSC A405
Machine Learning: COSC A406
Computer Graphics: COSC A425
WWW & Scripts: COSC Y200
Computational Math: MATH A375
Classical Mechanics: PHYS A340
Physics of Sound: PHYS Y231

Loyola Core.....40 crs
Major.....42 crs
Adjuncts.....6 crs
General Elective.....32 crs
Total.....120 crs

GPA: Must achieve 2.0 in Major, Minor (if declared), & Loyola Cumulative

Loyola Core requirements are governed by the catalog year that a student is admitted. See Bulletin/Bulletin Archives.

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.