

Lovejoy High School
Mathematics & Computer Science 4-year-plan of Study

Content	9th Grade	10th Grade	11th Grade	12th Grade
Mathematics	Accel Algebra I Algebra 1* Geometry	Geometry Accel Geometry Algebra II	Algebra II Pre-Calculus or Calculus	Pre-Calculus / Calculus Calculus AP Statistics AP
Science	Biology Hon	Physical Science* Or Physics Chemistry Hon	Chemistry Hon or AP Biology AP Chemistry or AP Environmental Science Physics	Chemistry Hon AP Environmental Science AP Physics or AP Chemistry AP Biology
English	Hon 9 th Grade Literature	Hon World Literature Hon 9 th Grade Literature	AP Language/ Composition	AP Literature
Social Science	AP World History	AP Government	AP U.S. History	AP Economics/ Elective(s)
Foreign Language	Chinese I	Chinese II	Chinese III	Chinese IV
Electives or other required courses	Health/ Physical Education Fine Arts			
LHS -Magnet Program	Intro to Digital Technology	Computer Science Principles	AP Computer Science	Embedded Computing Other fourth Course options: <ul style="list-style-type: none"> • Game Design: Animation and Simulation • Programming, Games, Apps, and Society
ATC -Magnet Program	MOWR 1st Sem: (English 1101/ 1102) MOWR 2nd Sem: (College Algebra/ Psychology)	MOWR 1st Sem: (First Yr Exp seminar/Intro to Computers) MOWR 2nd Sem: (American Literature/Computer concepts)	MOWR 1st Sem: Structured Query Lang (SQL)/ Program Design & Development) MOWR 2nd Sem: (Web Development I/ IT Analysis, Design & Project Mgmt)	MOWR 1st Sem: C++ Programming I / C++ Programming II MOWR- 2nd Sem: Intro to Oracle Databases/ Java Programming I

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*High School class taken in Middle School

Class meets - 5 hours a week 8:00 -9:30a.m.

Teacher Office hours: 8:15a.m. – 8:30a.m.

9:30a.m. -9:40a.m.

Program Curriculum:

Associate Degree:

Computer Programming – 67 hours

ENGL – 1101 – Composition and Rhetoric	CIST – 1001- Computers Concepts
ENGL – 1102- Literature & Composition	CIST – 1220 – Structured Query Language (SQL)
PSYC – 1101 – Introductory to Psychology	CIST – 1305 Program Design and Development
MATH – 1111- College Algebra	CIST – 1510 – Web Development I
ENGL – 2130 – American Literature (EOCT)	CIST- 2921 – T Analysis, Design & Project Mgmt
FYES 1001 First Year Experience Seminar	CIST – 2316- C++ Programming I
COMP – 1000- Introduction to Computers	CIST – 2362 – C++Programming II
	CIST – 1210 – Introduction to Oracle Databases
	CIST – 2371 – Java Programming I

Certificate Program:

C++ Programmer - 15 hours

CIST – 1210 – Introduction to Oracle Databases
CIST – 1305 – Program Design and Development
CIST – 2361 – C++ Programming I
CIST – 2362 – C++ Programming II

****Attendance at ATC during summer sessions may be necessary to complete Associate Degree.**

ELECTIVE: ** SPCH – 1101 – Public Speaking
ELECTIVE: **SOCI – 1101 – Introduction to Sociology
ELECTIVE: **HUMN – 1101 – Introduction to Humanities
ELECTIVE: **ECON- 1101- Principles of Economics

CIST – 2372- Java Programming II
CIST – 2373 – Java Programming III