

Lane Tech College Prep Planning Guide- Computer Science Concentration

Students who choose a Concentration in Computer Science must take the following courses to receive the **Lane Tech Recognition of Achievement in Computer Science.**

Total Number of Courses Required: 4

see suggested curriculum map below

1 or 2 Beginning Computer Science Course	Exploring Computer Science or Programming I or Media Computation or AP Computer Science Principles
1 or 2 Advanced Computer Science Courses	Innovation and Creation Lab or Apps 2- Physical Computing Lab or Web Development or Intro to Artificial Intelligence or Apps 1- Android Development or Microarchitecture Logic Design or Business Incubator
1 Advanced AP Course	AP Computer Science A Required for achievement
Senior Project	Create a digital or physical interactive product. Project must be approved by one of your senior CS teacher.

***For students who enter Lane Tech and declare Concentration as Freshmen**

Subject Area	Credits Required	9th Grade	10th Grade	11th Grade	12th Grade
English	4	Honors English I	Honors English II	AP English Language Honors English III	AP English Literature Honors English VI
Mathematics	4	Algebra Geometry w/ Algebra	Geometry w/Adv Algebra Advanced Algebra	Advanced Algebra Trig-Calc-Stats	Pre-Calculus w/Trig AP Calculus/AP Stats
Science	4	Hon Biology	Chemistry	AP Physics Honors Physics	Science Elective
Social Science ¹	3	AP Human Geography Honors World Studies	AP World History or AP European History Honors US History	AP United States History AP US Government and Politics or Civics Elective	AP US Government and Politics or Civics Elective- <i>If did not take Junior year)</i>
World Language	3	World Language I	World Language II	World Language III	
Fine Arts (Art/Drama/Music)	2			Art/Drama/Music Elective	Art/Drama/Music Elective
Computer Science Concentration Courses	4	Exploring Computer Science	Beginning or Advanced CS Elective	AP CS A or Advanced CS Elective	AP CS A or Advanced CS Elective
Physical Education ²	2	PE I	PE II	PE <i>Waiver</i>	PE <i>Waiver</i>
College Prep Electives ³	1				Elective * <i>If not taking Civics Requirement</i>
Total	28	7	7	7	7

Additionally, Lane Tech requires that all students take at least 1 Advanced Placement course.

¹ Civics Credit can be included to fulfill this requirement

² Students must complete 4 years of PE to meet the enrollment requirement OR complete a PE Waiver form

³ All electives at Lane Tech are College Prep Electives

***For students who enter Lane Tech and declare Concentration as Sophomore**

Subject Area	Credits Required	9th Grade	10th Grade	11th Grade	12th Grade
English	4	Honors English I	Honors English II	AP English Language Honors English III	AP English Literature Honors English VI
Mathematics	4	Algebra Geometry w/ Algebra	Geometry w/Adv Algebra Advanced Algebra	Advanced Algebra Trig-Calc-Stats	Pre-Calculus w/Trig AP Calculus/AP Stats
Science	4	Hon Biology	Chemistry	AP Physics Honors Physics	Science Elective
Social Science ¹	3	AP Human Geography Honors World Studies	AP World History or AP European History Honors US History	AP United States History AP US Government and Politics or Civics Elective	AP US Government and Politics or Civics Elective- <i>If did not take Junior year)</i>
World Language	3	World Language I	World Language II	World Language III	
Fine Arts (Art/Drama/Music)	2	Art/Drama/Music Elective			Art/Drama/Music Elective
Computer Science Concentration Courses	4		Prog I, Media Comp, or AP CS Principles	AP CS A or Advanced CS Elective	AP CS A or Advanced CS Elective
Physical Education ²	2	PE I	PE II	PE <i>Waiver</i>	PE <i>Waiver</i>
College Prep Electives ³	1				Advanced CS Elective
Total	28	7	7	7	7

Additionally, Lane Tech requires that all students take at least 1 Advanced Placement course.

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