

# Associate Applied Science: Computer Programming 2019-20

**Program Lead:** Brian Bird, Building 19, Rm. 152, [birdb@lanecc.edu](mailto:birdb@lanecc.edu)

## Learning Outcomes:

Upon successful completion of this program, students will know or be able to:

- Design, implement, test, debug and document web based computer programs using a variety of current tools and technologies.
- Design, implement, test, debug and document at least one other type of computer program such as: game program, database program, object-oriented program.
- Understand the relationship between computer programs and organizational processes.
- Interpret the mathematical concepts of a programming related problem-solving task and translate them into programming logic and expressions.
- Use appropriate library and information resources to research programming tools and technologies and support lifelong technical learning.

## Course Requirements:

1. Prerequisites are required for some courses. See course descriptions.
2. Second Year Requirements - A personal laptop is recommended for second-year students in the degree program. Please contact the Program Lead for options and system requirements.
3. Communications, Writing, Math, PE/Health, Human Relations requirements, and CS 206 must be completed with a grade of C- or better, or Pass.
4. The following courses must be completed with a letter grade of B- or better: CS 133N, CS233N, CS 234N, CS 295N, CS 296N, CS 246, and CS 297. All other core courses must be completed with a letter grade of C- or better. P/NP is not accepted.
5. Students who complete the Computer Programming Degree will have completed all of the coursework to earn the Database Specialist Career Pathway Certificate and Front End Web Developer Certificate.
6. Programming majors are strongly advised to take as electives CS 235AM: Intermediate Mobile App Development: Android and CS 235IM: Intermediate Mobile App Development: IOS electives.
7. For more specific information about the Fall/Winter/Spring CS/CIS elective sequences please contact the Program Lead to help determine which elective sequence best fits your goals.

<b>First Year</b>	<b>Fall</b>	<b>Second Year</b>	<b>Fall</b>
CIS100.... Computing Career Exploration .....	1	CS234N.. Advance Programming: C# .....	4
CS160..... Orientation to Computer Science .....	4	CS276 .... Database Systems and Modeling.....	4
PE/Health Requirement.....	3	Directed Elective .....	4
CG203 .... Human Relations at Work.....	3	CS295N.. Web Development 1: ASP.NET .....	4
WR121...Academic Composition.....	4		<b>Winter</b>
	<b>Winter</b>	CS233JS . Inter. Programming: JavaScript .....	4
MTH095 . Intermediate Algebra.....	5	Directed Elective .....	4
CIS195.... Web Authoring 1.....	4	CS296N.. Web Development 2: ASP.NET .....	4
CS133N .. Beg. Programming: C# .....	4	CS246 .... System Design .....	4
WR227 ... Technical Writing .....	4		<b>Spring</b>
	<b>Spring</b>	CS280PR. Co-op Ed: Computer Programming .....	4
CS233N .. Intermediate Programming C# .....	4	Directed Elective .....	4
CS275..... Basic Database SQL.....	4	CS297 .... Programming Capstone.....	4
CS206..... Co-op Ed: CIT Seminar .....	2		
CS133JS.. Beg. Programming: JavaScript .....	4	<b>TOTAL CREDITS:.....</b>	<b>90</b>

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