



# LAKES REGION COMMUNITY COLLEGE

## SOFTWARE DEVELOPER/ GAMING & ANIMATION

### Why Computer Technologies?

Computers have become an essential part of life, used in every industry and in most homes. A dynamic and rapidly growing area, the computer industry offers enormous growth and job potential. These jobs are consistently among the top 10 fastest growing occupations. An AS in Computer Technologies from Lakes Region Community College will prepare students for entry-level jobs upon graduation, or transfer to a four-year college. Students will be exposed to a variety of technologies including programming, networking, security, web design and databases. They then will select one of three tracks to continue studying: Network Administrator, Application Developer/Gaming and Animation, Database Administrator/Web Developer. Many of the classes also provide students with the knowledge and skills to pass a variety of professional certification exams. Students should declare their focus by the second semester to ensure completion of curriculum requirements. In addition, a Technologies for Education Certificate is available for educators who either wish to update their technology skills or become certified to teach computer classes at the middle and high school levels.

### Potential Jobs/Careers:

- Software Developer
- Software Engineer
- Systems Software Engineer
- Animation Software Engineer
- Animation Engineer
- Junior Animation Programmer

### Potential Salary:

There is a wide range of jobs in the computer industry. See below for the average annual salary range in NH for a software gaming & animation developer.

- Entry Level **\$75,962**
- Mid-Range **\$114,171**
- Experienced **\$132,038**

*\*New Hampshire Occupational Employment & Wages 2019, published by the NH Economic and Labor Market Information Bureau – Salaries are based on 40 hours of work, not including overtime.*

### Estimated Program Cost:

- Year 1: \$6,880**
  - Year 2: \$6,450**
- for a total of \$13,330

*\*Costs are based on in-state tuition and do not include fees, supplies, or books. Additional fees may apply; all prices are subject to change.*

### Did you know?



Computer Technology students have access to software and development tools at no cost. In addition, many of the courses are course preparations for Professional Certification for companies such as Microsoft, CompTIA, Apple and Oracle.

## Degree & Certificate Requirements

### DEGREE Requirements

FIRST YEAR Fall Semester		Credits
CIS132L	Software Applications	4
CIS136L	Introduction to Computers	3
CIS140L	Introduction to Programming	3
ENGL100L	English Composition	4
MATH211L	College Algebra	4
ESNT120L	College Essentials	1
<b>TOTAL</b>		<b>19</b>

FIRST YEAR Spring Semester		Credits
CIS227L	IT Developmental Applications	3
CIS275L	Object-Oriented Programming C++	3
CIS277L	Programming for Games	3
ELECTIVE	Mathematics Elective (200 Level)	4
<b>TOTAL</b>		<b>13</b>

**Total Credits for Year = 32**

SECOND YEAR Fall Semester		Credits
CIS271L	Analyzing Software Requirements	3
CIS272L	Object-Oriented Programming-Java	3
CIS292L	Mobile Applications Development	3
ELECTIVE	Science Elective	3
ELECTIVE	Social Science Elective	3
<b>TOTAL</b>		<b>15</b>

SECOND YEAR Spring Semester		Credits
CIS244L	SQL Server	3
CIS274L	XML	3
CIS276L	Developing Web Applications	3
CIS280L	Capstone Project	3
ELECTIVE	Humanities/Fine Arts/Foreign Language Elective	3
<b>TOTAL</b>		<b>15</b>

**Total Credits for Year = 30**  
**Total for A.S. Degree = 62**

The Computer Technologies Software Developer/ Gaming & Animations track is for individuals who desire to be creative as well as scientific. Students are required to learn a variety of languages, as well as work in different development environments. Students will learn Java, C++ and Objective-C and create applications for Windows, Apple & Android devices.

### Certificate Requirements

Gaming & Animation Developer Certificate		Credits
ESNT120L	College Essentials	1
CIS136L	Introduction to Computers	3
CIS227L	IT Developmental Applications	3
CIS140L	Introduction to Programming	3
CIS275L	Object-Oriented Programming-C++	3
CIS277L	Programming for Games	3
CIS271L	Analyzing Software Requirements	3
CIS272L	Object-Oriented Programming-Java	3
CIS274L	XML	3
CIS276L	Developing Web Applications	3
CIS292L	Mobile Application Development	3
<b>TOTAL</b>		<b>31</b>

Application Developer Certificate		Credits
ESNT120L	College Essentials	1
CIS136L	Introduction to Computers	3
CIS227L	IT Developmental Applications	3
CIS140L	Introduction to Programming	3
CIS292L	Mobile Application Development	3
CIS244L	SQL Server	3
CIS271L	Analyzing Software Requirements	3
CIS272L	Object-Oriented Programming-Java	3
CIS274L	XML	3
CIS276L	Developing Web Applications	3
CIS277L	Programming for Games	3
<b>TOTAL</b>		<b>31</b>