



LAKES REGION COMMUNITY COLLEGE

DATABASE ADMINISTRATOR/ WEB DEVELOPER

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:

- Database Administrator
- Computer Network Architect
- Computer Systems Analyst
- Web Developer
- Web Application Developer
- Web Administrator

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 database administrator or web developer.

- Entry Level \$66,144
- Mid-Range \$98,114
- Experienced \$114,130

**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
TOTAL		19

FIRST YEAR Spring Semester		Credits
CIS227L	IT Developmental Applications	3
CIS244L	SQL Server	3
CIS262L	Introduction to Linux	3
ELECTIVE	Mathematics Elective (200 Level)	4
TOTAL		13

Total Credits for Year = 32

SECOND YEAR Fall Semester		Credits
CIS234L	Website & Design Development	3
CIS242L	Database Management & Design	3
CIS272L	Object Oriented Programming-Java	3
ELECTIVE	Science Elective	3
ELECTIVE	Social Science Elective	3
TOTAL		15

SECOND YEAR Spring Semester		Credits
CIS247L	Introduction to Oracle DB	3
CIS274L	XML	3
CIS276L	Developing Web Applications	3
CIS280L	Capstone Project	3
ELECTIVE	Humanities/Fine Arts/Foreign Language Elective	3
TOTAL		15

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

The Computer Technologies Database Administrator/Website Developer track is for individuals who would like to create websites and/or databases. Students will learn skills beyond what is possible with commercial plug-in tools. Students will learn how to use CSS, HTML5, PHP and other programming languages to go beyond basic web design and create a robust website suited to today's business needs. Students will learn a variety of database platforms, including MySQL, SQL Server and Oracle. All courses are designed with the potential for transfer to a four-year institution.

Certificate Requirements

Database Administrator Certificate		Credits
ESNT120L	College Essentials	1
CIS136L	Introduction to Computers	3
CIS140L	Introduction to Programming	3
CIS227L	IT Developmental Applications	3
CIS242L	Database Management & Design	3
CIS247L	Introduction to Oracle DB	3
CIS244L	SQL Server	3
CIS262L	Introduction to Linux	3
CIS274L	XML	3
CIS276L	Developing Web Applications	3
ELECTIVE	Computer Technology Elective	3
TOTAL		31

Website Developer Certificate		Credits
ESNT120L	College Essentials	1
CIS136L	Introduction to Computers	3
CIS227L	IT Developmental Applications	3
CIS140L	Introduction to Programming	3
CIS272L	Object-Oriented Programming-Java	3
CIS275L	Object-Oriented Programming-C++	3
CIS244L	SQL Server	3
CIS292L	Mobile Application Development	3
CIS274L	XML	3
CIS276L	Developing Web Applications	3
CIS234L	Website and Design Development	3
TOTAL		31