# DAD - Database Application Developer

Version 58

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|---|---|
| **Program Code:** | DAD |
| **Credential Awarded:** | Graduate Certificate |
| **Campus:** | Newnham |
| **Duration:** | 1 year (2 academic semesters) |
| **Starts In:** | January and September |

**Program Curriculum**

## Database Application Developer - DAD 23-24

| Semester 1 | | |
|---|---|---|
| Course Code | Course Name | Pre-requisites |
| DES720 | Relational Database Design and Implementation | None |
| JAV745 | Java Programming | None |
| OPS705 | Introduction to Cloud Computing | None |
| SQL710 | Database Administration and Management | None |
| WEB700 | Web Programming | None |

| Semester 2 | | |
|---|---|---|
| Course Code | Course Name | Pre-requisite |
| CJV805 | Database Connectivity using JAVA | JAV745 and DES720 |
| CAP805 | Applied Capstone Project | WEB700, DES720 |
| DBW825 | Data Warehousing | DES720 |
| SEC835 | Security in Databases and Web Applications | WEB700, DES720 |
| DBD800 | Accessing Big Data | DES720 |
| WTP100 | Work Term Preparation (Work-Integrated Learning option only) | None |

| Optional Co-op | | |
|---|---|---|
| Course Code | Course Name | Pre-requisite |
| DAD441 | Optional WIL Work Term | None |

**Program Learning Outcomes**

As a graduate, you will be prepared to reliably demonstrate the ability to:

- Analyze system requirements for business computer applications.
- Work and communicate as a member of a team in the design, development and implementation of computerized business applications.
- Construct a logical and physical database design given a client's system requirements.
- Implement a simple database application using popular relational database application software.
- Program computer applications using an object-oriented programming language.
- Develop specific business applications using a multi-tier architecture.

- Modify deployed applications using industry standard system architectures and frameworks.

- Perform basic database administration functions, including backup and recovery, and network administration.

- Implement database applications using an enterprise-level relational database product.

- Apply knowledge of data warehousing, data marts, and data mining to gather and summarize decision making information.

- Employ web technologies in database application implementation and support.

- Work effectively in web and distributed operating system environments.

**Further Information About This Program from Seneca's Website**

tags : dad, grad-cert, sdds