

## DATABASE TECHNOLOGY

### Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494

#### **Related Programs**

Oracle Database Administrator Associate in Science Major Code 21492<sup>§</sup>  
 Oracle Database Developer Associate in Science Major Code 21134<sup>§</sup>  
 Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386  
 Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

<sup>§</sup> Students can earn a degree from 21491, 21493, 21492 or 21134, but not from two or more of these programs.

#### **Entrance Requirements**

- HS Diploma or GED
  - PERT
- The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college-level coursework. Recent ACT or SAT score may also be used for placement. For more information, see <http://www.broward.edu/testing/>. Students who test into college prep courses must successfully complete all of the required coursework to qualify for graduation.

#### **First Year Term I**

|                                  |  |           |
|----------------------------------|--|-----------|
| CTS 1133C                        | A+ Essentials (Session 2)                    | 3         |
| *CTS 2131C                       | A+ Advanced <sup>1</sup> (Session 4)         | 3         |
| *COP 1334C                       | Introduction to C++ Programming <sup>2</sup> | 3         |
| ENC 1101                         | Composition                                  | 3         |
| *MAC 1105                        | College Algebra                              | 3         |
| <b>Total Term Semester Hours</b> |  | <b>15</b> |

#### **First Year Term II**

|                                  |   |           |
|----------------------------------|---|-----------|
| CTS 1134C                        | Network+  | 4         |
| CTS 1431C                        | Microsoft Specialist: Advanced Access <b>or</b> |           |
| CGS 1540C                        | Database Management                             | 3         |
| *CIS 2321C                       | Systems Analysis Design <sup>3</sup>            | 3         |
| SPC 1024                         | Introduction to Speech Communications <b>or</b> |           |
| SPC 1608                         | Introduction to Public Speaking                 | 3         |
| <b>Total Term Semester Hours</b> |   | <b>13</b> |

#### **First Year Term III**

|                                  |  |          |
|----------------------------------|--|----------|
| *CTS 1327C                       | Microsoft Windows Professional <sup>4</sup>        | 4        |
| *CTS 1328C                       | Implementing Microsoft Windows Server <sup>6</sup> | 4        |
| <b>Total Term Semester Hours</b> |  | <b>8</b> |

#### **Second Year, Term I**

|                                  |  |           |
|----------------------------------|--|-----------|
| *CIS 2342                        | Designing Data Services and Data Models <sup>3</sup>         | 3         |
| *CTS 1347C                       | Implementing Windows Infrastructure <sup>7</sup>             | 4         |
| *CTS 1432C                       | Querying Microsoft SQL Server with Transact-SQL <sup>8</sup> | 3         |
| Hum / FA                         | Humanities / Fine Arts Elective                              | 3         |
| <b>Total Term Semester Hours</b> |  | <b>13</b> |

#### **Term II**

|                                     |  |           |
|-------------------------------------|--|-----------|
| *CTS 2437C                          | Administering a Microsoft SQL Server Database <sup>9</sup> | 4         |
| *CTS 2434C                          | Programming a Microsoft SQL Server Database <sup>10</sup>  | 4         |
| **CS Elective                       | Computer Science Elective                                  | 3         |
| Soc / Beh                           | Social / Behavioral Science Elective                       | 3         |
| <b>Total Term Semester Hours</b>    |  | <b>14</b> |
| <b>Total Program Semester Hours</b> |  | <b>63</b> |

**Note:** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree

\* Requires a pre- or co-requisite or proper score on the placement test. See course description online at [www.broward.edu](http://www.broward.edu)

- <sup>1</sup> Prerequisite – CTS 1133C (with a grade of C or higher)
- <sup>2</sup> Prerequisite – MAT 1033 or MTB 1310
- <sup>3</sup> Prerequisite – COP 1334C
- <sup>4</sup> Prerequisite – CTS 1133C; Co requisite – CTS 2131C (each with a grade of C or higher)
- <sup>5</sup> Prerequisite – CIS 2321 (with a grade of C or higher)
- <sup>6</sup> Prerequisites – CTS 1133C and CTS 2131C and CTS 1327C (each with a grade of C or higher)
- <sup>7</sup> Prerequisites – CTS 1133C and CTS 2131C and CTS 1327C and CTS 1328C (each with a grade of C or higher)
- <sup>8</sup> Prerequisite – CIS 2342 (with a grade of C or higher)
- <sup>9</sup> Prerequisites – CTS 1328C and CTS 1432C (each with a grade of C or higher)
- <sup>10</sup> Prerequisite – CTS 1432C (with a grade of C or higher)

\*\*Any course with a CDA, CEN, CET, CGS, CIS, or COP prefix, except CGS1000, CGS1060C, CGS1061C, or CGS1570

**It is strongly recommended that students see an academic advisor or counselor every term.**