The Database Administration program at Cowley College is a two-year transfer program. Students completing the program will have the equivalent of the first two years of study at a four-year college or university, including the introductory computer science and database administration courses, and should be able to transfer smoothly into a Computer Science or Computer Information Science program to complete their baccalaureate degree.

### DATABASE ADMINISTRATION  
(Associate of Arts Degree)

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>COURSE NAME</th>
<th>SEMESTER</th>
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<tbody>
<tr>
<td>1</td>
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</tbody>
</table>

#### GENERAL EDUCATION REQUIREMENTS

**Basic Skills (12 hours)**
- ENG2211 Composition I  
- MTH4420 College Algebra
- COM2711 Public Speaking
- ENG2212 Composition II

**Computer Literacy (3 hours)**
- CIS1715 Introduction to Computer Science or See Computer Literacy List

**Humanities (9 hours) 3 Different Departments**
- Humanities Elective*  
- Humanities Elective*  
- Humanities Elective*

**Social Sciences (9 hours) 3 Different Departments**
- Social Science Elective*  
- Social Science Elective*  
- Social Science Elective*

**Laboratory Sciences (5 hours)**
- Laboratory Science Elective*

**Health & Physical Education (1 hour)**
- Health & Physical Education Elective*

**GENERAL EDUCATION HOURS**
- 39

**REQUIRED ELECTIVES**

**Database Administration (9 hours)**
- CIS1893 Database Fundamentals  
- CIS1902 Introduction to SQL
- CIS1895 Introduction to Oracle

**RECOMMENDED ELECTIVES**
- Database Administration Electives***  
- Computer Programming Electives****
- MTH4423 Elementary Statistics
- MTH4432 Calculus for Business/Economics

**ELECTIVE HOURS**
- 24

**TOTAL HOURS**
- 63

*See List of Electives that fulfill Requirements for the Associate of Arts Degree.

**See list for approved Computer Programming courses. *** See list for approved Computer Animation Courses.

Depending on skill level and assessment scores, students may be required to take the necessary basic skill or prerequisite courses prior to enrolling in the program.

Revised: April 18, 2016
<table>
<thead>
<tr>
<th>Approved Database Administration courses</th>
<th>Approved Computer Programming courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS1874 Access Programming</td>
<td>CIS1858 Visual Basic Programming</td>
</tr>
<tr>
<td>CIS1896 Database Programming</td>
<td>CIS1860 Perl Programming</td>
</tr>
<tr>
<td>CIS1897 ASP.Net Programming</td>
<td>CIS1862 C++ Programming</td>
</tr>
<tr>
<td>CIS1898 Data Warehousing</td>
<td>CIS1864 C# Programming</td>
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<tr>
<td>CWB1849 Web Programming</td>
<td>CIS1868 Java Programming</td>
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<td>CIS1870 Adv. Java Programming</td>
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<tr>
<td></td>
<td>CIS1872 Python Programming</td>
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<td>CIS1876 C Programming</td>
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