

# Associate of Applied Business Degree Business

## Information Technology and Computer Science

### Database

#### Database Administrator Concentration (9258)

This program provides students with a specialization in the administration and implementation of Oracle or Microsoft SQL Server databases. Courses within this program help students prepare for certification exams.

##### First Semester:

BUSM 1300 . . . . .	Introduction to Business . . . . .	3
<b>ENGL 1110*</b> . . . . .	<b>English Composition I (A)</b> . . . . .	3
<b>OR</b>		
<b>ENGL 1111</b> . . . . .	<b>English Composition I (B)</b>	
ITIS 1012** . . . . .	Applied Computer Mathematics . . . . .	3
<b>(1st 8 weeks)</b>		
ITIS 1005 . . . . .	Computers and Information Processing . . . . .	3
<b>(2nd 8 weeks)</b>		
ITCS 1010 . . . . .	Programming Logic . . . . .	3
<b>ITON 1020</b> . . . . .	<b>Using Microsoft Windows</b> . . . . .	1
<b>OR</b>		
<b>ITON 1030</b> . . . . .	<b>Using Microsoft Windows Vista</b>	
ITON 1205 . . . . .	Network+ and Networking Essentials . . . . .	2
		<b>18</b>

##### Second Semester:

ACCT 1100 . . . . .	Introduction to Financial Accounting . . . . .	4
ENGL 1121 . . . . .	English Composition II - Technical Focus . . . . .	3
ITIS 1100 . . . . .	Internet: Services, Tools, and Web Page Creation . . . . .	2
ITIS 1115 . . . . .	Internet Technologies and Concepts . . . . .	2
<b>ITON 1725***</b> . . . . .	<b>Introduction to the Linux/ Unix Operating System</b> . . . . .	2
<b>OR</b>		
<b>ITON 2020****</b> . . . . .	<b>Supporting Microsoft Windows</b>	
<b>OR</b>		
<b>ITON 2030****</b> . . . . .	<b>Windows Vista Configuration</b>	
<b>(1st 8 weeks)</b>		
ITDB 1400 . . . . .	Introduction to Oracle SQL . . . . .	2
<b>(2nd 8 weeks)</b>		
<b>ITDB 1405***</b> . . . . .	<b>Introduction to Oracle PL/SQL</b> . . . . .	2
<b>OR</b>		
<b>ITDB 1406****</b> . . . . .	<b>Microsoft SQL Concepts</b>	
		<b>17</b>

##### Third Semester:

ACCT 1200 . . . . .	Introduction to Managerial Accounting . . . . .	3
<b>ITDB 1425***</b> . . . . .	<b>Oracle Database Administration I</b> . . . . .	2
<b>OR</b>		
<b>ITDB 1426****</b> . . . . .	<b>Microsoft SQL Server Implementation</b>	
ITCS 1820 . . . . .	Java Programming I . . . . .	3
<b>ITON 1730</b> . . . . .	<b>Implementing and Administering Linux</b> . . . . .	2
<b>OR</b>		
<b>ITON 2212</b> . . . . .	<b>Managing and Maintaining MS Windows 2003 Server</b>	
<b>OR</b>		
<b>ITON 2237</b> . . . . .	<b>Windows Server 2008 Applications Infrastructure Configuration</b>	
ITCS 2010 . . . . .	Systems Analysis . . . . .	3
<b>SPCH 1050****</b> . . . . .	<b>Fundamentals of Public Speaking</b> . . . . .	2
<b>OR</b>		
<b>SPCH 1150</b> . . . . .	<b>Fundamentals of Interpersonal Communication</b>	
Choose course(s) from the Technical Electives list . . . . .		2
		<b>17</b>

##### Fourth Semester:

<b>ECON 1150</b> . . . . .	<b>Basic Economics</b> . . . . .	3
<b>OR</b>		
<b>ECON 2600</b> . . . . .	<b>Principles of Microeconomics</b>	
ITCS 1105 . . . . .	Web Programming I . . . . .	2
ITCS 2820 . . . . .	Java Programming II . . . . .	3
<b>ITDB 2425***</b> . . . . .	<b>Oracle Database Administration II</b> . . . . .	2
<b>OR</b>		
<b>ITDB 2426****</b> . . . . .	<b>Microsoft SQL Server Maintenance</b>	
MATH 2130 . . . . .	Business Statistics I . . . . .	3
Choose course(s) from the Arts and Humanities Electives list . . . . .		3
Choose course(s) from the Technical Electives list . . . . .		2

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**Program Total: 70**

\*English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).

\*\*Students planning to transfer to a four-year college should take a sequence of math as advised by their counselor.

\*\*\*Students choosing an Oracle emphasis should select the following courses: ITON 1725, ITDB 1405, ITDB 1425, ITON 1730, ITDB 2425

\*\*\*\*Students choosing a Microsoft emphasis should select the following courses: ITON 2020 or ITON 2030, ITDB 1406, ITDB 1426, ITDB 2426, ITON 2212 or ITON 2237

\*\*\*\*\*Students may substitute either SPCH 1000 or SPCH 1100. One of these 3 credit courses may be required for students transferring to a four-year college.

#### Recommended Technical Electives for an Oracle Emphasis:

minimum 4 credits

CPET 1050 . . . . .	Assembling, Upgrading and Repairing Personal Computers . . . . .	2
ITDB 1420 . . . . .	Develop Oracle PL/SQL Program Units . . . . .	2
ITDB 2400 . . . . .	Oracle Developer: Forms I . . . . .	3
ITDB 2405 . . . . .	Oracle Developer: Forms II . . . . .	2
ITDB 2490 . . . . .	Oracle Applications Developer Capstone . . . . .	4
Any Information Technology (ITCS, ITDB, ITIS, ITON) course(s) except ITIS 1000		

#### Recommended Technical Electives for a Microsoft Emphasis:

minimum 4 credits

ITCS 1810 . . . . .	Visual Basic.NET Programming I . . . . .	3
ITCS 1840 . . . . .	Visual C#.NET Programming I . . . . .	3
ITCS 2170 . . . . .	Introduction to ASP.NET . . . . .	2
ITON 2031 . . . . .	Support and Troubleshoot Applications on Vista . . . . .	2
ITON 2230 . . . . .	Microsoft Exchange Server Implementation and Administration . . . . .	2
ITON 2231 . . . . .	Configuring Microsoft Office Communications Server . . . . .	2
ITON 2234 . . . . .	Windows Server 2008 Network Infrastructure Configuration . . . . .	2
ITON 2236 . . . . .	Windows Server 2008 Active Directory Configuration . . . . .	2
Any Information Technology (ITCS, ITDB, ITIS, ITON) course(s) except ITIS 1000		

#### Arts and Humanities Electives: minimum 3 credits

ARTS 1120, 2220, 2230, 2240; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 2200, 2250; PHIL 1500, 2000