

**DATABASE TECHNOLOGY**  
**Oracle Database Developer Associate in Science Major Code 21134§**

**Program Description**

The Oracle Database Developer Associate in Science degree, offered at the A. Hugh Adams Central Campus, prepares students for employment opportunities as database application developers. It is designed for students seeking to successfully complete the Oracle Certified Professional (OCP) Certification in Database Development.

**Related Programs**

Oracle Database Administrator Associate in Science Major Code 21492§  
 Microsoft Certified Database Administrator (MCDBA) Associate in Science Major Code 21494  
 Oracle System Administrator (Database Administrator Option) Technical Certificate Major Code 62386  
 Oracle Software Engineering (Database Developer Option) Technical Certificate Major Code 62385

§ 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 coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

**First Year Term I**

CIS 1000C	Introduction to Computer Science	3
COP 1334C	Introduction to C++ Programming <sup>1</sup>	3
ENC 1101	Composition I	3
MAC 1105	College Algebra	3
<b>Total Term Semester Hours</b>		<b>12</b>

**First Year Term II**

CIS 2321C	Systems Analysis & Design <sup>2</sup>	3
COP 1335C	Intermediate C++ Programming <sup>2</sup>	3
COP 2071C	Database Design & Programming SQL <sup>2</sup>	3
Hum / FA	Humanities/Fine Arts Elective	3
SPC 1024	Intro to Speech Communications <b>or</b>	
SPC 1608	Intro to Public Speaking	3
<b>Total Term Semester Hours</b>		<b>15</b>

**First Year Term III**

CTS 2445C	Oracle Developer: Develop PL/SQL Program Units <sup>3</sup>	4
CTS 2446C	Oracle Forms: Build Internet Applications <sup>4</sup>	4
<b>Total Term Semester Hours</b>		<b>8</b>

**Second Year Term I**

COP 2361C	Object-Oriented Analysis & Design <sup>5</sup>	3
COP 2800C	Programming in Java <sup>6</sup>	3
CS Elective	Computer Science Elective	3
GEB 1011	Introduction to Business	3
Soc / Beh	Social/Behavioral Science Elective	3
<b>Total Term Semester Hours</b>		<b>15</b>

**Second Year Term II**

CIS 1513C	Project Management <sup>7</sup>	3
CS Elective	Computer Science Elective*	3
CS Elective	Computer Science Elective*	3
CS Elective	Computer Science Elective*	4
<b>Total Term Semester Hours</b>		<b>13</b>
<b>Total Program Semester Hours</b>		<b>63</b>

\* Computer Science (CS) Electives: CGS 1060C or any course with a CIS, COP, or CTS prefix

- <sup>1</sup> Prerequisite – MAT 1033 or MTB 1310
- <sup>2</sup> Prerequisite – COP 1334C (with a grade of C or higher)
- <sup>3</sup> Prerequisites – CIS 2321C and COP 2071C (each with a grade of C or higher)
- <sup>4</sup> Prerequisite – CTS 2445C (with a grade of C or higher)
- <sup>5</sup> Prerequisites – CIS 2321C and COP 1335C (each with a grade of C or higher)
- <sup>6</sup> Prerequisites – CIS 2321C and COP 1335C (each with a grade of C or higher); Pre/Co-requisite – COP 2361C
- <sup>7</sup> Prerequisite – CGS 1060C (with a grade of C or higher) or Placement

**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.

‡ The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

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