

## Associate of Science in Computer Web Support & Database Administration

\*Requirement: 30 units of major, 18 units of G.E. and 12 units of any GE/CS/CIS.

## Certificate of Achievement in Computer Web Support & Database Administration

\*Requirement: 18 units of core courses and 12 units of elective courses.

### Computer Web Support and Database Administration Required and Elective Courses

Course Number	Core or Elective	Course Title	Units	Semester Sequence
CIS 120	Core	Introduction to Databases	3	Y 1 S 1
CIS 148	Core	Introduction to Web Development HTML5 & CSS	3	Y 1 S 1
CIS 150	Core	Advanced Web Development using JavaScript and Ajax	3	Y 1 S 2
CIS 219	Core	Introduction to Oracle: SQL and PL/SQL	3	Y 1 S 2
CIS 237	Core	Installing, Configuring and Administering Microsoft SQL Server	3	S 2 or S3
CS 112	Core	Programming in JavaScript	3	S 2 or S3
<b>Restricted Elective Course List: 12 units</b>				
CIS 101	Elective	Introduction to Computers and Their Uses	3	Y 1 S 1
CIS 104	Elective	Microcomputer Application Software	3	Y 1 S 1
CS 140	Elective	Programming for Mobile Application	3	Y 1 S 1
CIS 190	Elective	E-Commerce Essentials	3	Y 1 S 1
CIS 192	Elective	Introduction to Cloud Computing	3	Y 1 S 2
CIS 193	Elective	Database Essentials in Amazon Web Services	3	Y 1 S 2
CIS 194	Elective	Computer Engines in Amazon Web Services	3	Y 1 S 2
CIS 195	Elective	Security in the Cloud	3	Y 1 S 2
<b>G.E.</b>		General Education	18	
<b>Degree Elective</b>		<b>Unrestricted Elective Courses</b> 12 units of CS and/or CIS and/or G.E. courses	12	
<b>Total Degree Units</b>	Core and Elective		60	

It is recommended that students meet with a counselor to develop a Student Educational Plan (SEP) or contact CS division chair via [ChiangAS@wlac.edu](mailto:ChiangAS@wlac.edu) for course advice.