



North Polk Community Schools Pacing & Course Description Guide



Grade Level: 10-12

Content: SQL

Year: 2022-2023

Course Description/Rationale

Prerequisite: AP COMPUTER SCIENCE A

This course of study teaches students to analyze complex business scenarios, design and create data models, and create databases using SQL. Oracle SQL Developer Data Modeler and Application Express (APEX) are utilized to provide practical, hands-on, engaging activities. Leveraging project-based learning techniques, students will create and work with projects which challenge them to design, implement, and demonstrate a database solution for a business or organization. (2 HS credits)

Name of Unit	Time Frame	Essential Learning Target	Standard(s)
Intro to Dada	Week 1	<i>Define and give an example of a relational database</i> • <i>Identify table-key terms, including row, column, field, primary key, and foreign key</i> • <i>Relate the importance of databases to everyday life</i>	3B-DA-05 Use data analysis tools and techniques to identify patterns in data representing complex systems.
Entities and Attributes	Week 1 - Week 3	Differentiate between data and information Define database Describe the elements of a database management system (DBMS)	3B-AP-10 Use and adapt classic algorithms to solve computational problems.

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