Advanced Database Concepts with SQL introduces a comprehensive look at SQL (Structured Query Language) which is a programming language that is used by diverse groups of programmers today. Learning of SQL commands and database design and the many uses of SQL.

Prerequisites or Necessary Entry Skills/Knowledge:
CSCI 1102, ACCT 1122

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
☐ Goal 1: Communication: By meeting the following competencies:
☐ Goal 2: Critical Thinking: By meeting the following competencies:
☐ Goal 3: Natural Sciences: By meeting the following competencies:
☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
☐ Goal 7: Human Diversity: By meeting the following competencies:
☐ Goal 8: Global Perspective: By meeting the following competencies:
☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
☐ Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
- Advanced database designing
- Creating multiple table queries
- Updating and creating new tables from existing tables
- Database administration
- SQL functions and procedures
- Oracle databases
- Functions and procedures
## Student Learning Outcome

| Create database administration features of SQL which include: use of views, granting and revoking user privileges, creating, dropping and using an index |
| Execute the use of the SQL commit, rollback, update, insert, delete commands to update table data. |
| Create, maintain and update advanced features of the Oracle software application. |
| Create multi-table forms and cross-tab queries. |
| Develop and utilize relational databases. |

| Is this course part of a transfer pathway: | Yes ☐ No ☒ |

*If yes, please list the competencies below*

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