

**Hagerstown Community College**  
**OFFICIAL MASTER SYLLABUS DOCUMENT**

**COURSE:** IST 173 Database Fundamentals – 3 credits

**INSTRUCTOR:**

**SEMESTER/YEAR:** Spring 2018

**COURSE DESCRIPTION:** This course is designed to provide individuals with a complete introduction to database concepts and the relational database model. Topics include SQL, normalization, design methodology, DBMS functions. At the completion of this course, students should be able to understand a user's database requirements and translate those requirements into a valid database design. Prerequisite: IST 102 or consent of TCS Division. Semester offered: Periodically Three credits.

**TEXTBOOK:**

Exploring Microsoft Access 2016, Comprehensive. 2016, Poatsy, Cameron, Williams.  
Pearson/Prentice Hall

**STUDENT LEARNING OUTCOMES:**

- Think critically
- Communicate effectively with both verbal and written forms
- Apply concepts of database conventions in a database environment.
- Determine requirements for database design.

**TOTAL HOURS OF COURSEWORK:**

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

In-class instruction	<b>45 instructional hours</b>
Chapter Grader Projects	10 End-of-Chapter cases to reinforce the concepts in the chapter @ 2 hours each = <b>20 hours</b>
Chapter Capstone Projects	10 Chapter Capstones to test the concepts in the chapter @ 2 hours each = <b>20 hours</b>
Mini Capstone Projects	2 Mini Capstone Projects to test the student's critical thinking skills @ 2 hours each = <b>4 hours</b>
Course Capstone Project	<b>24 hours</b>
	<b>Total hours=113 hours</b>

**Services for Students with Disabilities:** Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at [dss@hagerstowncc.edu](mailto:dss@hagerstowncc.edu) or at 240-500-2530