Dates	Corresponding Week	Торіс	Reading Material 1	Reading Material 2	Additional Reading Material	Writing Assignment Due Date	Writing Assignment Points	Lab Due Date	Lab Points	Exam Points		
August 20	Week 1	Overview of Cyber Security Operating System Security Fundamentals	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations (includes updates as of 5/7/13) (No. Special Publication (NIST SP)-800-53 Rev 4).	Anderson, R. J. (2010). Security engineering: a guide to building dependable distributed systems. John Wiley & Sons. chapter 1						Writing Assignments	28
August 27	Week 2	Access Controls - definitions and principles Access Controls - threats Access Controls - types of acces control Access Controls - access control models Access Controls - monitor and management NIST 800-57 Controls	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Anderson, R. J. (2010). Security engineering: a guide to building dependable distributed systems. John Wiley & Sons. <u>chapter 4</u>	Write up on the fundamentals of cyber security	2				Labs	30
September 3	Week 3	Labor Day - No Classes	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison-Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Security and Privacy Controls for Federal Information Systems and Organizations. Available at https: //csrc.nist. govp.nist. govp.bilcations/detail/sp/800- 53/rev-4/final	Write up on access controls	2	Apply access controls to database	5		Exams	42
September 10	Week 4	Setting up a database environment	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 57/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Databases for beginners. Available at http://zcht.home.amu.edu.pl/pliki/Databases%20for% 20beginners.pdf Leow to Milligate the Most Significant Database Vulnerabilities. Available at http://schell.com/Top_Ten_Database_Threats.pdf			Setting Up the world Database. Available at https: //downloads.mysql. com/docs/world- setup-en.pdf	5		Total	100
September 17	Week 5	Securing a database environment	Elmasri, R., & Navathe, S. (2010), Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Bertino, E., & Sandhu, R. (2005). Database security-concepts, approaches, and challenges. IEEE Transactions on Dependable and secure computing, 2(1), 2-19. Avaiable at https://www.cerias. purdue. edu/assets/pdf/bibtex_archive/2005- 99.ps							
September 24	Week 6	Enterprise database architecture Distributed systems	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 2	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Anderson, R. J. (2010). Security engineering: a guide to building dependable distributed systems. John Willey & Sons. chapter 6			Secure a database environment with applied controls	5			
October 1	Week 7	Discussion on database assignment in Ethiopia with Catholic Relief Services	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 2	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Dawson provide information for CRS project assignment.	Write up on multilevel security [Only graduate students]	2					
October 8	Week 8	Fall Break Day - No Classes	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 3	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations (includes updates as of 5/7/13) (No. Special Publication (NIST SP)-800-53 Rev 4).		Write on database architecture [Only graduate students]	2	Create report from finding from SQL injection	5			
October 15	Week 9	Midterm	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).						10		
October 22	Week 10	Database Encryption and Masking Watermarking	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 24	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations (includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Shmueli, E., Vaisenberg, R., Elovici, V., & Glezer, C. (2010). Database encryption: an overview of contemporary challenges and design considerations. ACM SIGMOD Record, 38(3), 29-34. Available at http://www09.sigmod.org/sigmod/record/issues/0909/p29.surveys.shmueli.pdf							
October 29	Week 11	SQL injection cyber analytics for database content	Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison- Wesley Publishing Company. chapter 4-5	Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations (includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).	Halfond, W. G., Viegas, J., & Orso, A. (2006, March). A classification of SQL-injection attacks and countermeasures. In Proceedings of the IEEE International Symposium on Secure Software Engineering (Vol. 1, pp. 13-16). IEEE. Vauliable at https://www.cc.gatech.edu/fac/Alex/Orso/papers/halfond.viegas.orso.ISSSE06.pdf							
November 5	Week 12	Group project and presentation start		Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).				SQLmap ran against database and report write up	10			

Dates	Corresponding	Topic	Reading Material 1	Reading Material 2	Additional Reading Material	Writing Assignment Due	Writing Assignment	Lab Due Date	Lab	Exam Points		
Dates	Week	Торіс	reading material 1	reading material 2	Additional Reading material	Date	Points	Lab Due Date	Points	Exam i omits		
November 12	Week 13	Group project and presentation cont.		Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).								
November 19	Week 14	Final exam review		Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).		Group Presetation [graduate students must also provide EVM plan, project maagement plan, and risk management plan]	10					
November 26	Week 15	Thanksgiving Break - No Classes		Ross, R. S. (2013). Security and Privacy Controls for Federal Information Systems and Organizations [includes updates as of 5/7/13] (No. Special Publication (NIST SP)-800-53 Rev 4).		Research Paper [Only graduate students]	10					
December 3	Week 16	Final Exam Week/Final Grading Begins on Dec 3								32		
December 10		No class										
December 12		No class Final Grades Due at Noon (12 p.m. CST)										
December 22		Fall Degree Conferral										