**Access control**

**Course Objectives  
Course Competencies/ Learning Objectives**

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| **Course Learning Objectives** | **Major Instructional Areas** | **Assessment Method** |
| Define the authorization and the access to an IT infrastructure based on an access control policy framework. | Ch. 1 | Homework assignments Midterm Exam Final Exam |
| Mitigate risk to an IT infrastructure’s confidentiality, integrity, and availability with sound access controls. | Ch. 2 | Homework Assignments Midterm Exam Final Exam |
| Analyze how a data classification standard impacts an IT infrastructure’s access control | Ch. 3 | Homework Assignments Midterm Exam Final Exam |

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| requirements and implementation. |  |  |
| Develop an access control policy framework consisting of best practices for policies, standards, procedures, and guidelines to mitigate unauthorized access. | Ch. 4 | Homework Assignments Midterm Exam Final Exam |
| Assess the consequences of failed access controls and mitigate unauthorized access. | page2image46438208  Ch. 5 | Homework Assignments Midterm Exam Final Exam |
| Apply various access control methods to solve a range of business challenges. | page2image46440320  Ch. 6 | Homework Assignments Midterm Exam Final Exam |
| Define proper security controls for information systems within IT infrastructures. | Ch. 7, 8  page2image46443776 | Homework Assignments Midterm Exam Final Exam |
| Explore ways to secure the facilities that house sensitive resources and use biometric technology to verify identity. | Ch. 9  page2image46631552 | Homework Assignments Midterm Exam Final Exam |
| Design appropriate authentication solutions throughout an IT infrastructure based on user types and data classification standards. | Ch. 10 | Homework Assignments Midterm Exam Final Exam |
| Utilize policies, standards, guidelines, and procedures to implement and maintain access control. | Ch. 11 | Homework Assignments Midterm Exam Final Exam |
| Implement a secure remote access solution. | Ch. 12 | Homework Assignments Midterm Exam Final Exam |