**Introduction**

Access Control Systems began in the 1960’s to eliminate the problems associated withlost keys and replacing locks. Systems used simple keypad with a PIN (personal identificationnumber) codes, along with insert card. In the late 1970’s and early 1980’s,non-contact“proximity cards” or RFID technology became popular because of its many advantages.Theseaccess cardsare used in conjunction with an access control card reader. This card reader isconnected to an intelligent door controller which contains stored programming information fromthe access control software about who is allowed where and when, as well as other functions thatthe system can perform. Not only do these access systems grant or deny access, they maintain ahistory of system activity that can be used to generate management reports. In Today’stechnology, Access Control Systems are formed to give access to specific individuals for accessand to restrict access when needed. These systems now can be integrated with security system,providing surveillance of individuals accessing the property, as well as a database that stores thecredentials of individuals and their access log. Colleges and Universities need to have accesscontrol systems on campus to provide the ultimate security measure for Faculty, Staff andStudents. The Office of Project Management along with Office of Public Safety was informedthat this university needs to install an access control system for the campus dormitories. Thisproject will give the College/University the ability to control, manage and monitor the access ofstudents and staff inside the dormitories.

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**Project Scope Statement**

The project scope is the Access Control System will automatically unlock the dormitory doorswith an electronic proximity reader and integrate with an existing security camera system.

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The one thing that I wish that I had a chance to take part in is the physical feeling ofgetting ready to go to college and actually leave on the campus and do all the things that allcollege students have the chance to experience.I never had that experience because after highschool I went straight into the Navy at 18 years of age.I always dreamed of what it would belike the feeling of taking all the things that you need for the next few months of living on yourown and freedom from your parents.The effect of you parents being proud of you for partakingin this experience.I am sure that all the shopping that has to be done with all the new people thatyou will be meeting that are just like you starting a new life with new teachers and things.I amsure that the experience for the Universities that have to take the proper measures of making surethat all the new students as well as the old students have a sense of protection over them andtheir things that have been purchased for the new students laptops etc.So it is a very important



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part that the Universities have the proper Access Control Systems in place to provide the ultimatesecurity along with accountability.These have to be places into the Dormitories to ensure thatthe males and female students of this dorm is completely secure at all times

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cameras are designed to face and rotate to record a person as they use their identification card tounlock the door.\

**Tasks**

This project is conducted in four Stages.Each stages will explain task/subtasks in details.A.

**Preparation**

1. Create ACS Team to perform project tasks.(2) Survey the College Dorm(a) Control Plan location(b) Reader’s locations(c) Camera’s locations(3) Create design of ACS(a) Visual Diagram of College Exterior Dorm(b) Visual Diagram of College Interior Dorm(4) Investigate Current Security System-ACS will be integrated with the currentsecurity system.(a) Check Cameras for damages/wear and tear(b) Compatibility with new ACS(5) Create Proposal for Management(a) Cost Estimate of Hardware, Software and Materials(b) Labor Cost(c) Timeline of EventsB.
2. **Installation**

(1) Control Panel(2) Wires (R456 Communication Lines)(3) Reader’s on doors (Main, Back, Bedrooms, Utility Closets and MaintenanceRoom)(4) Reader’s on Exterior Walls(5) Reader’s on Interior Walls(6) Re-positioning Camera’s-Cameras need to face the readers on the Exterior WallsC.

**Configuration**

1. ACS server-ACS software will be installed to have hold the database
2. This project is conducted in four Stages.Each stages will explain task/subtasks in details.A. Preparation(1) Survey the College Dorm(a) Control Plan location(b) Reader’s locations(c) Camera’s locations(2) Create design of ACS(a) Visual Diagram of College Exterior Dorm(b) Visual Diagram of College Interior Dorm(3) Create Proposal for Management(a) Cost Estimate of Hardware, Software and Materials(b) Labor Cost(c) Timeline of EventsB. Installation(1) Control Panel(2) Wires (R456 Communication Lines)(3) Reader’s on doors(4) Reader’s on Exterior Walls(5) Reader’s on Interior Walls(6) Re-positioning Camera’s-Cameras need to face the readers on the Exterior WallsC. Configuration
3. 
4. [**View Full Document**](https://www.coursehero.com/registerForm.php?reg_only=1&get_doc=18117345)
5. (1) ACS server-ACS software will be installed to have hold the database. Afterinstallation, the readers and camera must be connected to the server to comparethe credentials entered from card vs the Access Control List.(2) Program Student ID’s to grant access. import that information into the ACS serverfor the Access Control List.(3) Add all user names to the LDAP and RADIUS verification process on the secureserver.
6. D**. Execution**
7. (1) Transition Period-After Installation and Configuration, perform several test runson the system before full deployment.(2) Soft-Deployment-Test run on the equipment with Staff members.(3) Announcements-Notify all residents and staff of the new system and changes tothe current process.(4) Full Deployment-Activate ACS and Distribution of Access CardsBelow is the projected project time-line and layout of the ACS system



BUILDING AN ACCESS CONTROL SYSTEMinformation from the access control software about who is allowed where and when, as well asother functions that the system can perform. Not only do these access systems grant or denyaccess, they maintain a history of system activity that can be used to generate managementreports.The Office of Project Management along with Office of Public Safety was informed thatthis university needs to install an access control system for the campus dormitories. This projectwill give the College/University the ability to control, manage and monitor the access ofstudents and staff inside the dormitories.The project scope is the Access Control System will automatically unlock the dormitorydoors with an electronic proximity reader and integrate with an existing security camera system.The cameras are designed to face and rotate to record a person as they use their identificationcard to unlock the door.This project is conducted in four Stages. Each stages will explain task/subtasks in details.A. Preparation(1) Create ACS Team to perform project tasks(2) Survey the College Dorm.(a) Control Plan Location(b) Readers Location(c) Camera’s Location(3) Create designs of ACS(a) Visual Diagram of College Exterior Dorm(b) Visual Diagram of College Interior Dorm(4) Investigate Current Security System-ACS will be integrated with the currentsecurity system.(a) Check Cameras for damages/wear and tear(b) Compatibility with new ACS(5) Create Proposal for Manage

