**(Prerequisite: To be taken last or next to last; a grade of “C” or higher is required)**

|  |  |
| --- | --- |
| **Quarter** | Fall 2018 |
| **Meeting Days/Time** | Online |
| **Instructor** | Dr. Chris Barrett (Dr. B) |
| **Instructor Phone** | 901-604-6636 |
| **Instructor E-mail** | christopher.barrett@strayer.edu |
| **Instructor Office Hours/Location** | Mondays - Fridays 6-8 PM |
| **Academic Office Phone Number** | https://icampus.strayer.edu / 901-604-6636 |
| **Strayer Technical Support** | 1-877-642-2999 |
| **Blackboard Technical Support** | 1-866-350-9427 |

**COURSE DESCRIPTION**

This course is an integrative capstone course for the Bachelor of Science in Information Technology program. The course takes a senior management approach to examine and solve real-world problems and projects. Students will apply project management techniques to create integrative information technology solutions that include databases, systems analysis, security, networking, computer infrastructure, human computer interaction, and Web design.

**INSTRUCTIONAL MATERIALS**

**Required Resources**

Roberts, D. (2013). *Unleashing the power of IT*. (2nd ed.). Hoboken, NJ: John Wiley & Sons, Inc.

Kerzner, H. (2014). *Project management best practices: Achieving global excellence*. (3rd ed.). Chichester, U.K.: John Wiley & Sons, Inc.

Microsoft Office, Microsoft Visio, and Microsoft Project or their equivalents such as OpenOffice, Dia, and Open Project are required. Tutorials for Microsoft Office 2013 can be found on Microsoft’s support site, located at <http://office.microsoft.com/en-us/support/training-FX101782702.aspx>.

**Supplemental Resources**

Association for Computing Machinery Website. (2014). General format. Retrieved from <http://www.acm.org/>

National Security Agency – Central Security Service Website. (2014). General format. Retrieved from <http://www.nsa.gov/>

The Committee on National Security Systems Website (2014). General format. Retrieved from <http://www.cnss.gov/>

|  |  |  |
| --- | --- | --- |
| FACULTY INTRODUCTION | | |
| Hello Everyone,  My name is Dr. Chris Barrett, PMP. I’m a certified project manager and Six Sigma Green Belt. For those who are interested, my doctoral research was on 'The Digital Divide and its Effect on African-American K-12 school-age children. I love and understand the importance of education. Education can take you a long way. I am a Gulf War Veteran. My military career has taken me to Panama, Singapore, Hong Kong, China, Philippines, Japan, Hawaii, Ireland, Italy, Bahrain, and back home. My primary duties were administration and working with information systems. After spending six years in the Navy, I immediately realized how much I loved the military yet disliked being away for six months on water. After I was honorably discharged, I opened up a paging shop in San Diego, CA. This was in the mid-1990s and I began selling pagers before cell phones were hot. On the side, I would fix electronics. I have tinkered around with a number of things. I am an employee at Helena Chemical Company. I'm the Manager of Application Development and Data Warehouse. I have been with Helena for 19 years. I have been involved in several Oracle ERP implementations, implementation of point of sale (POS) systems, B2B technologies, self-service application, and PC and server rollouts.  I love to listen to good music and finding time to fish. I just had my first granddaughter, I have a 23 year old daughter and 15 year old daughter. I lost my 22 year old son this year in a tragic accident so it has been a tough year. I love being around people, family, and just having a good time. I have been teaching online for approximately sixteen years. I look forward to working with you. | | |
| **COURSE EXPECTATIONS**  To obtain the most benefit from this class:   * Follow Strayer University’s policies and procedures as well as those specific to this class.   + Class specific information can be found within the “Class Information” section within the Student Center.   **Discussion/Participation Policy**:  Your credit for discussion will be based on your participation in the class. The discussion should be thought provoking, interactive, and respectful. Please take this opportunity to learn and share your experiences with others. Simply agreeing with another student without additional value will not be enough to receive full credit for discussion.  **Instructor’s expectations**:  It is my intent for every student in this course to succeed; however, it will require effort on your part. In order to be successful, please put forth your best effort and do not wait until the last minute to complete your assignments. I can help guide you in the right direction before the due date of the assignment and I’m available for any questions or concerns that you may have. All work must be presented in a scholarly format. Your fonts should be consistent and your information should be thorough and researched. Your assignments should be submitted on or before the due date. No plagiarizing. Any instances of plagiarism will be reported to the university. There is no need to plagiarize. My role as the instructor is to provide you with all the tools that you need to be successful. Your role as the student is to put forth your best effort, be disciplined, conscientious, research, learn, and understand (not just from a theoretical standpoint).  **Feedback on all assignments**:  I will post feedback to each student via the dropbox and gradebook. It is my intent to provide feedback before the beginning of the following class week. Please feel free to contact me if you have any questions or concerns.  **Late assignments**:  **Treatment of Late Assignments**  If you as a student find that you have an exceptional circumstance, such as illness that impacts the timely submission of your course assignments, you should be aware that:   * You should immediately notify your course instructor or local campus * During the period of your absence you will be responsible for all material missed * Once you present the appropriate documentation, your course instructor will provide reasonable accommodations * If your absence from class will be for an extended amount of time, (2 weeks or more), the current guidelines are not applicable. Your professor will work in conjunction with your Academic Dean to evaluate other options.   **Late Assignment with Documented Exceptional Circumstances**  For submission of assignments after the due date for which you wish to receive credit, documentation supporting the exceptional circumstance should be presented directly to your course instructor and you should be aware that:  This documentation would include proof of extended illness or hospitalization, or papers noting military deployment  The treatment and grading of the late assignments will vary dependent upon whether or not documentation is provided    In cases where appropriate documentation is provided, you will be allowed to make up all assignments, including discussion posts  All make up provisions for work must be in accordance with the exceptional circumstance timeframe agreed upon between you and your professor  **Late Assignment without Documented Exceptional Circumstances**  For submission of assignments after the due date for which you have not provided documentation of an exceptional circumstance, you may still receive partial credit for some of the assignments and you should be aware that:  You must provide written notification to the instructor, and explain the circumstance for which you  are unable to provide documentation  For the grading of assignments without documentation, the course instructor will use the following guidelines:  a) Assignments submitted within 7 days after the submission deadline will receive up to a 20% deduction;  b) Assignments submitted between 8 and 14 days after the submission date will receive up to a 50% deduction;  c) Assignments submitted beyond 14 days from the due date are not acceptable and no credit will be provided for assignment completion;  d) Please note assignments due during the last week of the term cannot be accepted late.  e) Discussion boards by definition are not assignments that are easily made up and thus, late participation is not accepted.  All past due assignments must be submitted by the last Wednesday of the academic term. Late assignments submitted after the last Wednesday of the academic term must receive a grade of zero (0), i.e. no credit awarded.  **In the event you are unable to contact the professor and/or local campus, please request that a family member or friend inform the professor or local campus of your illness or other exceptional circumstance.  Students should be aware that all noted policies on refunds and/or withdrawal fees described in the Catalog are applicable.**  I do not grade any discussion board postings late. I also do not grade any assignments after the course end date. If an emergency occurs, please feel free to contact me so that we can discuss other options. **I am holding you accountable for notifying me when you have submitted a late assignment for grading. You must email me once your late assignment is available for grading**. I am here to help you to succeed.  **Making Up Missed Assignments**  a) If the student wants to make up missed assignments, the student must provide the professor and/or Campus Dean with documentation that supports either the illness or the exceptional circumstance.  b) For a student taking online classes, he/she should attempt to keep up with the online course work and assignments, if at all possible.  c) The student will be responsible for all material missed during the period of the absence.  d) The student must also complete any missed postings to discussion threads for online classes. Make-up work given by the faculty member included exams, papers, and assignments.  e) Student and professor should agree in writing upon deadlines and all work must be completed by the end of the quarter.  f) In the event the student misses more than two weeks and may not be able to successfully complete all missing assignments, he/she should work with the Campus Dean/Associate Dean/Online Manager to discuss options.  g) In the event the student may need to consider withdrawal due to an illness or exceptional circumstance, the student should be aware that all noted policies on refunds and/or withdrawal fees described in the Catalog will be followed.  **Professor and/or Staff Responsibilities \***   * In the event a student becomes ill while on campus, the professor and/or staff member may ask the student to go home (please refer to the General Welfare, Safety and Security Policy in the Student Handbook). * When a student indicates he/she is unable to attend a class, professors and/or staff members should adhere to the following guidelines:  |  |  |  | | --- | --- | --- | | **Student Absence Length** | **Documentation Required** | **Faculty Gives Make-Up Work** | | 0-1 Week | No | Yes | | After 1 Week – Up To 2 Weeks | Yes | Yes | | More Than 2 Weeks | Yes | At the discretion of the Campus Dean/Associate Dean/Online Manager |  * The professor and/or staff member should encourage students taking online courses to keep up with their coursework and assignments, if at all possible. * Per the guidelines above, upon receipt of the documentation, the professor and/or staff member will discuss possible options with the student and determine if make-up work will be given. * Professor and student should agree in writing upon deadlines and all work must be completed by the end of the quarter. * Per the guidelines above, the professor and/or staff member will not assign make-up work if it is determined that too much work or class time has been missed. * In the event the student misses more than 2 weeks and the Campus Dean/Associate Dean/Online Manager do not believe the student will not be able to successfully complete all the missing assignments, the Campus Dean/Associate Dean/Online Manager should work with the student or follow the Incomplete or mitigating circumstances policies in the Catalog. * In the event the student considers withdrawing from a class due to illness or exceptional circumstances, the professor and/or staff member should encourage the student to review all noted policies on refunds/withdrawal fees as outlined in the Catalog.   \* Staff may include the Campus Dean, Associate Dean, and/or Online Manager  **Plagiarism Policy:**  **The following actions constitute plagiarism:**           Using someone’s words and ideas and presenting them as your own original thoughts           Using someone’s exact words and ideas without placing them inside quotation marks, using in in-text citations, and including a reference page           Using someone’s words or ideas  without citing them in in-text references (parenthetical references) and on a reference page           Using someone’s words or ideas, changing the wording (paraphrasing), and failing to cite them in in-text references and on a reference page           Submitting the same assignment for two different classes (self-plagiarism) without the professor’s knowledge  Plagiarism may be **intentional** (purposely passing over another’s ideas as one’s own) or **unintentional** (inadvertently failing to cite someone’s ideas and/ or words).  **Unintentional plagiarism** usually occurs because a writer is unfamiliar with the idea that he or she has to give a source credit for his or her ideas by using in-text references and a reference page.  **All cases of plagiarism will result in a written warning and notification to Student Affairs.**  Finally, plagiarism may result in the following actions:    **1)      Written Warning**: you will receive a written warning that explains the violation and makes a recommendation about how to prevent it from happening again.  The violation will be reported to Student Affairs.    **2)**  **Grade Reduction**: you will receive a written warning that explains the violation and makes a recommendation about how to prevent it from happening again.  The assignment grade will be reduced.  The violation will be reported with the sanction noted as “grade reduction” to Student Affairs.    **3)**  **Course Failure**:  [*Instructors may recommend course failure if the violation has been repeated or if the level of violation necessitates this action*] you will receive a written warning that explains the violation and makes a recommendation about how to prevent it from happening again.  Your instructor will report the decision of failure of the course to the Academic Integrity Committee; you will be required to submit a written statement to be considered by the Academic Integrity Committee.  The Academic Integrity Committee will determine whether course failure is warranted. |

**COURSE LEARNING OUTCOMES**

1. Describe the various integrative functions and processes within the information systems area, including databases, systems analysis, security, networking, computer infrastructure, human computer interaction, and Web design.
2. Demonstrate the ability to evaluate organizational issues with integrative technological solutions.
3. Evaluate the ethical concerns that information technology solve or present in a global context.
4. Apply integrative information technology solutions with project management tools to solve business problems.
5. Summarize the competitive advantage that information technology affords to organizations.
6. Evaluate the issues and challenges associated with information technology integration.
7. Demonstrate an understanding of existing and emerging information technologies and strategic impact on organizational operations.
8. Describe and apply project management best practices in an information technology context.
9. Use technology and information resources to research issues in information technology.
10. Write clearly and concisely about strategic issues and practices in the information technology domain using proper writing mechanics and technical style conventions.

**WEEKLY COURSE SCHEDULE**

The standard requirement for a 4.5 credit hour course is for students to spend 13.5 hours in weekly work. This includes preparation, activities, and evaluation regardless of delivery mode.

|  |  |  |
| --- | --- | --- |
| **Week** | **Preparation, Activities, and Evaluation** | **Points** |
| 1 (10/01/18 – 10/07/18) | Preparation   * Reading(s), from Roberts   + Chapter 1: Creating Your Twenty-First Century Workforce and Culture   + Chapter 2: Transforming Your IT Team   + Chapter 3: Driving Change with Intent   Activities   * Discussion   Evaluation   * None | 20 |
| 2  (10/08/18 – 10/14/18) | Preparation   * Reading(s), from Roberts   + Chapter 4: Building a Client-Focused IT Culture   + Chapter 5: Evolving into the Role of Consultant   + Chapter 6: Negotiating: Getting What You Want without Damaging the Relationship   Activities   * Discussion   Evaluation   * Project Deliverable 1: Project Plan Inception | 20  50 |
| 3  (10/15/18 – 10/21/18) | Preparation   * Reading(s), from Kerzner   + Chapter 8: Training and Education   + Chapter 9: Informal Project Management   + Chapter 12: The Project Office   Activities   * Discussion   Evaluation   * None | 20 |
| 4  (10/22/18 – 10/28/18) | Preparation   * Reading(s), from Roberts   + Chapter 7: Sharpening Your Political Savvy   + Chapter 8: Managing Projects: The Science and the Art   + Chapter 9: Changing Your Requirements – Gathering Mind-Set   Activities   * Discussion   Evaluation   * Project Deliverable 2: Business Requirements | 20  150 |
| 5  (10/29/18 – 11/04/18) | Preparation   * Reading(s), from Kerzner   + Chapter 4: Project Management Methodologies   + Chapter 5: Integrated Processes   Activities   * Discussion   Evaluation   * None | 20 |
| 6  (11/05/18 – 11/11/18) | Preparation   * Reading(s), from Roberts   + Chapter 10: Managing the Vendor Relationship   + Chapter 11: Marketing IT’s Value   Activities   * Discussion   Evaluation   * Project Deliverable 3: Database and Programming Design | 20  150 |
| 7  (11/12/18 – 11/18/18) | Preparation   * Reading(s), from Roberts   + Chapter 12: Creating the Social Organization   + Chapter 13: O&A Clients in Action: Stories from the Trenches   + Chapter 14: Moving IT up the Maturity Curve: IT Talent Management   Activities   * Discussion   Evaluation   * None | 20 |
| 8  (11/19/18 – 11/25/18) | Preparation   * Reading(s), from Kerzner   + Chapter 6: Culture   + Chapter 7: Management Support   Activities   * Discussion   Evaluation   * Project Deliverable 4: Infrastructure and Security | 20  150 |
| 9  (11/26/18 – 12/02/18) | Preparation   * Reading(s), from Kerzner   + Chapter 1: Project Management Best Practices   + Chapter 2: From Best Practice to Migraine Headache   + Chapter 3: Journey to Excellence   Activities   * Discussion   Evaluation   * None | 20 |
| 10  (12/03/18 – 12/09/18) | Preparation   * Reading(s), from Kerzner   + Chapter 14: Project Portfolio Management   + Chapter 15: Global Project Management Excellence   Activities   * Discussion   Evaluation   * Final Project: Project Plan | 20  300 |
| 11  (12/10/18 – 12/16/18) | Preparation   * Reading(s): None * e-Activities   + Research at least three (3) professional organizations that relate to information technology and social networking organizations. Take note of the benefits of being engaged in professional social networking. Be prepared to discuss.   + Research at least three (3) certification programs in the information technology field or for a specific concentration related to this course. Take note of the value gained from the certification when coupled with your degree. Be prepared to discuss.   Activities   * Discussion   Evaluation   * None |  |

**GRADING SCALE – UNDERGRADUATE**

|  |  |  |
| --- | --- | --- |
| **Assignment** | **Total Points** | **% of**  **Grade** |
| Project Deliverable 1: Project Plan Inception | 50 | 5% |
| Project Deliverable 2: Business Requirements | 150 | 15% |
| Project Deliverable 3: Database and Programming Design | 150 | 15% |
| Project Deliverable 4: Infrastructure and Security | 150 | 15% |
| Final Project: Project Plan | 300 | 30% |
| Participation (10 discussions worth 20 points apiece)  **Note:** Week 11 discussions are not graded. | 200 | 20% |
| Totals | 1,000 | 100% |

|  |  |  |
| --- | --- | --- |
| **Points** | **Percentage** | **Grade** |
| 900 – 1,000 | 90% – 100% | A |
| 800 – 899 | 80% – 89% | B |
| 700 – 799 | 70% – 79% | C |
| 600 – 699 | 60% – 69% | D |
| Below 600 | Below 60% | F |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assignment** | **Total Points** | **% of**  **Grade** | **Due Date** | **Points** |
| Project Deliverable 1: Project Plan Inception | 50 | 5% | 10/14/18 | 50 |
| Project Deliverable 2: Business Requirements | 150 | 15% | 10/28/18 | 150 |
| Project Deliverable 3: Database and Programming Design | 150 | 15% | 11/11/18 | 150 |
| Project Deliverable 4: Infrastructure and Security | 150 | 15% | 11/25/18 | 150 |
| Final Project: Project Plan | 300 | 30% | 12/09/18 | 300 |
| Participation (10 discussions worth 20 points apiece)  **Note:** Week 11 discussions are not graded. | 200 | 20% | Each Week | 200/10 |
| Totals | 1,000 | 100% |  | 1000 |

**Writing Assignments**

The objective of the School of Information Systems’ writing assignments is to promote attitudes and skills that will improve a student’s ability to communicate in writing, develop research skills and documentation techniques, and encourage critical analysis of data and conclusions specific to the course learning outcomes in the information systems and technology domain.

Capstone Project Overview

The purpose of this project is for students to apply project management techniques to create integrative information technology solutions that include databases, systems analysis, security, networking, computer infrastructure, human computer interaction, and Web design. Deliverables one (1) through four (4) focus on preparing students toward the final capstone project. The project contents are as follows:

1. **Project Deliverable 1: Project Plan Inception.** In this deliverable, you will create a project introduction that includes background information of the company, the type of business in which the company is involved, and a description of the integrative information systems that the company should have to support the business. You will also be asked to create a Gantt chart or project plan to record tasks, subtasks, resources and identify the schedule of the project. Additionally the plan will outline the planning, analysis, design, and implementation phases of your project.

*Submission Requirements*

* + - Project Introduction (MS Word)
    - Gantt Chart / Project Plan (MS Project / Open Project)

1. **Project Deliverable 2: Business Requirements.** In this deliverable, you will create an original business requirements document for the project plan using the template provided. You will be asked to describe the detailed project including the scope, possible risks, constraints, and assumptions, integration with other systems and infrastructure, and relevant terms that will be used throughout project. You will also need to update the Gantt chart or project plan.

*Submission Requirements*

* + - Business Requirements Document (MS Word)
    - Revised Gantt Chart / Project Plan (MS Project / Open Project)

1. **Project Deliverable 3: Database and Programming Design.** In this deliverable, you will create a database schema that supports the company’s business and processes, explain and support the database schema, create database tables, normalize the database tables, create an Entity-Relationship (E-R) Diagram and create a Data Flow Diagram (DFD). You will also be asked to create sample queries that will support the organizational reporting needs, and screen layouts that illustrate the interface that organizational users will utilize. You will need to update the Gantt chart or project plan.

*Submission Requirements*

* + - Design Document (MS Word)
    - Revised Gantt Chart / Project Plan (MS Project / Open Project)

1. **Project Deliverable 4: Infrastructure and Security**. In this deliverable, you will design a logical and physical topographical layout of the network, illustrate the possible placement of servers, explain rationale for the logical and physical topographical layout of the planned network, create and describe the comprehensive security policy for the organization, and update the Gantt chart or project plan.

*Submission Requirements*

* + Infrastructure Document (MS Word)
  + Revised Gantt Chart / Project Plan (MS Project / Open Project)

1. **Final Project: Project Plan.** In the final project, you will provide a high-level technical overview of the project. You will also create a comprehensive PowerPoint presentation for the executive team and the venture capital group. The PowerPoint presentation along with the executive summary will convince the group that your solution is optimal.

*Submission Requirements*

* + Written Project Plan (MS Word)
  + Revised Gantt Chart / Project Plan (MS Project / Open Project)
  + Project Plan PowerPoint Presentation (MS PowerPoint)

**Project Deliverable 1: Project Plan Inception**

Due Week 2 and worth 50 points

This assignment consists of two (2) sections: a project introduction and a Gantt chart or project plan. **You must submit both sections as separate files for the completion of this assignment.** Label each file name according to the section of the assignment for which it is written. Additionally, you may create and / or assume all necessary assumptions needed for the completion of this assignment.

You have been made the Chief Information Officer and Chief Technology Officer (CIO / CTO) of an innovative e-Commerce start-up company that a venture capital group has funded. The CEO has given you sixty (60) days to deliver an information technology project plan in anticipation of the company locating to a new facility. Since this is a start-up company, there is currently no building or technology infrastructure to support the business. All information technology (hardware and software) must be implemented in either a hosted solution, on-site solution or a hybrid model. The CEO is expecting you to integrate different technologies from different partners and incorporate industry best practices in connection with the development of technological systems. The new facility is a two-story stand-alone building. The company currently consists of ten (10) employees with revenues of $5 million but is expected to grow to thirty (30) employees with revenue of $30 million over the next two (2) years.

**Section 1: Project Introduction**

1. Write a two to four (2-4) page project introduction that includes the following:
   1. Background information of the company.
   2. The type of business in which the company is involved.
   3. A description of the information systems that the company should have to support the business. The description should include the following:
      1. databases
      2. systems analysis
      3. security
      4. networking
      5. computer infrastructure
      6. human computer interaction
      7. Web design
   4. The use of at least two (2) quality resources in this assignment. **Note:** Wikipedia and similar Websites do not qualify as quality resources.

Your assignment must follow these formatting requirements:

* Be typed, double spaced, using Times New Roman font (size 12), with one-inch margins on all sides; citations and references must follow APA or school-specific format. Check with your professor for any additional instructions.
* Include a cover page containing the title of the assignment, the student’s name, the professor’s name, the course title, and the date. The cover page and the reference page are not included in the required assignment page length.

**Section 2: Gantt Chart / Project Plan**

Use Microsoft Project or an open source alternative, such as Open Project, to:

1. Create a Gantt chart or project plan (summary and detailed) template. The Gantt chart or project plan should:
   1. Record all tasks, subtasks, resources, and time related to the project.
   2. Outline the planning, analysis, design, and implementation phases.
   3. Develop in accordance with the systems development life cycle (SDLC).

The specific course learning outcomes associated with this assignment are:

* Describe the various integrative functions and processes within the information systems area, including databases, systems analysis, security, networking, computer infrastructure, human computer interaction, and Web design.
* Demonstrate the ability to evaluate organizational issues with integrative technological solutions.
* Use technology and information resources to research issues in information technology.
* Write clearly and concisely about strategic issues and practices in the information technology domain using proper writing mechanics and technical style conventions.

Grading for this assignment will be based on answer quality, logic/organization of the paper, and language and writing skills, using the following rubric.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Points: 50** | **Project Deliverable 1: Project Plan Inception** | | | | |
| **Criteria** | **Unacceptable**  **Below 60% F** | **Meets Minimum Expectations**  **60-69% D** | **Fair**  **70-79% C** | **Proficient**  **80-89% B** | **Exemplary**  **90-100% A** |
| **Section 1: Project Introduction** | | | | | |
| 1a. Include background information of the company.  Weight: 15% | Did not submit or incompletely included background information of the company. | Insufficiently included background information of the company. | Partially included background information of the company. | Satisfactorily included background information of the company. | Thoroughly included background information of the company. |
| 1b. Include the type of business in which the company is involved.  Weight: 20% | Did not submit or incompletely included the type of business in which the company is involved. | Insufficiently included the type of business in which the company is involved. | Partially included the type of business in which the company is involved. | Satisfactorily included the type of business in which the company is involved. | Thoroughly included the type of business in which the company is involved. |
| 1c. Include a description of the information systems that the company should have to support the business. | | | | | |
| 1ci. Include databases in the description. Weight: 5% | Did not submit or incompletely included databases in the description. | Insufficiently included databases in the description. | Partially included databases in the description. | Satisfactorily included databases in the description. | Thoroughly included databases in the description. |
| 1cii. Include systems analysis in the description.  Weight: 5% | Did not submit or incompletely included systems analysis in the description. | Insufficiently included systems analysis in the description. | Partially included systems analysis in the description. | Satisfactorily included systems analysis in the description. | Thoroughly included systems analysis in the description. |
| 1ciii. Include security in the description.  Weight: 5% | Did not submit or incompletely included security in the description. | Insufficiently included security in the description. | Partially included security in the description. | Satisfactorily included security in the description. | Thoroughly included security in the description. |
| 1civ. Include networking in the description.  Weight: 5% | Did not submit or incompletely included networking in the description. | Insufficiently included networking in the description. | Partially included networking in the description. | Satisfactorily included networking in the description. | Thoroughly included networking in the description. |
| 1cv. Include computer infrastructure in the description. Weight: 5% | Did not submit or incompletely included computer infrastructure in the description. | Insufficiently included computer infrastructure in the description. | Partially included computer infrastructure in the description. | Satisfactorily included computer infrastructure in the description. | Thoroughly included computer infrastructure in the description. |
| 1cvi. Include human computer interaction in the description.  Weight: 5% | Did not submit or incompletely included human computer interaction in the description. | Insufficiently included human computer interaction in the description. | Partially included human computer interaction in the description. | Satisfactorily included human computer interaction in the description. | Thoroughly included human computer interaction in the description. |
| 1cvii. Include Web design in the description.  Weight: 5% | Did not submit or incompletely included Web design in the description. | Insufficiently included Web design in the description. | Partially included Web design in the description. | Satisfactorily included Web design in the description. | Thoroughly included Web design in the description. |
| 1d. 2 references  Weight: 5% | No references provided | Does not meet the required number of references; all references poor quality choices. | Does not meet the required number of references; some references poor quality choices. | Meets number of required references; all references high quality choices. | Exceeds number of required references; all references high quality choices. |
| **Section 2: Gantt Chart / Project Plan** | | | | | |
| 2a. Record all tasks, subtasks, resources, and time related to the project.  Weight: 5% | Did not submit or incompletely recorded all tasks, subtasks, resources, and time related to the project. | Insufficiently recorded all tasks, subtasks, resources, and time related to the project. | Partially recorded all tasks, subtasks, resources, and time related to the project. | Satisfactorily recorded all tasks, subtasks, resources, and time related to the project. | Thoroughly recorded all tasks, subtasks, resources, and time related to the project. |
| 2b. Outline the planning, analysis, design, and implementation phases. Weight: 5% | Did not submit or incompletely outlined the planning, analysis, design, and implementation phases. | Insufficiently outlined the planning, analysis, design, and implementation phases. | Partially outlined the planning, analysis, design, and implementation phases. | Satisfactorily outlined the planning, analysis, design, and implementation phases. | Thoroughly outlined the planning, analysis, design, and implementation phases. |
| 2c. Develop in accordance with the systems development life cycle (SDLC).  Weight: 5% | Did not submit or incompletely developed in accordance with the systems development life cycle (SDLC). | Insufficiently developed in accordance with the systems development life cycle (SDLC). | Partially developed in accordance with the systems development life cycle (SDLC). | Satisfactorily developed in accordance with the systems development life cycle (SDLC). | Thoroughly developed in accordance with the systems development life cycle (SDLC). |
| 3. Clarity, writing mechanics, and formatting requirements  Weight: 10% | More than 8 errors present | 7-8 errors present | 5-6 errors present | 3-4 errors present | 0-2 errors present |

**Project Deliverable 2: Business Requirements**

Due Week 4 and worth 150 points

This assignment consists of two (2) sections: a business requirements document and a Gantt chart or project plan. **You must submit both sections as separate files for the completion of this assignment.** Label each file name according to the section of the assignment for which it is written. Additionally, you may create and / or assume all necessary assumptions needed for the completion of this assignment.

Procuring quality business requirements is an important step toward the design of quality information systems. Completion of a quality requirements document allows user needs and expectations to be captured so that infrastructure and information systems can be designed properly. Using the requirements document provided in the course shell, you are to speculate on the needs of the company. You must consider current and future requirements; however, assumptions should be realistic and carefully considered.

**Section 1: Business Requirements Document**

1. Write an eight to ten (8-10) page original business requirements document for the project plan using the template provided. **Note:** The template can be found in the Student Center of the online course shell.
   1. Describe the project including the following:
      1. Describe the scope and analyze how to control the scope.
      2. Identify possible risks, constraints, and assumptions.
      3. Describe the integration with other systems and infrastructure. **Note:** Database and interface design, security, and networking should be considered.
      4. Define relevant terms that will be used throughout project.
   2. Use at least two (2) quality resources in this assignment. **Note:** Wikipedia and similar Websites do not qualify as quality resources.

Your assignment must follow these formatting requirements:

* Be typed, double spaced, using Times New Roman font (size 12), with one-inch margins on all sides; citations and references must follow APA or school-specific format. Check with your professor for any additional instructions.
* Include a cover page containing the title of the assignment, the student’s name, the professor’s name, the course title, and the date. The cover page and the reference page are not included in the required assignment page length.

**Section 2: Revised** **Gantt Chart / Project Plan**

Use Microsoft Project or an open source alternative, such as Open Project, to:

1. Update the Gantt chart or project plan (summary and detail) template, from *Project Deliverable 1: Project Plan Inception*, with all the project tasks.

The specific course learning outcomes associated with this assignment are:

* Apply integrative information technology solutions with project management tools to solve business problems.
* Use technology and information resources to research issues in information technology.
* Write clearly and concisely about strategic issues and practices in the information technology domain using proper writing mechanics and technical style conventions.

Grading for this assignment will be based on answer quality, logic/organization of the paper, and language and writing skills, using the following rubric.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Points: 150** | **Project Deliverable 2: Business Requirements Document** | | | | |
| **Criteria** | **Unacceptable**  **Below 60% F** | **Meets Minimum Expectations**  **60-69% D** | **Fair**  **70-79% C** | **Proficient**  **80-89% B** | **Exemplary**  **90-100% A** |
| **Section 1: Business Requirements Document** | | | | | |
| 1ai. Describe the scope and analyze how to control the scope.  Weight: 15% | Did not submit or incompletely described the scope and did not submit or incompletely analyzed how to control the scope. | Insufficiently described the scope and insufficiently analyzed how to control the scope. | Partially described the scope and partially analyzed how to control the scope. | Satisfactorily described the scope and satisfactorily analyzed how to control the scope. | Thoroughly described the scope and thoroughly analyzed how to control the scope. |
| 1aii. Identify possible risks, constraints, and assumptions.  Weight: 20% | Did not submit or incompletely identified possible risks, constraints, and assumptions. | Insufficiently identified possible risks, constraints, and assumptions. | Partially identified possible risks, constraints, and assumptions. | Satisfactorily identified possible risks, constraints, and assumptions. | Thoroughly identified possible risks, constraints, and assumptions. |
| 1aiii. Describe the integration with other systems and infrastructure. Weight: 20% | Did not submit or incompletely described the integration with other systems and infrastructure. | Insufficiently described the integration with other systems and infrastructure. | Partially described the integration with other systems and infrastructure. | Satisfactorily described the integration with other systems and infrastructure. | Thoroughly described the integration with other systems and infrastructure. |
| 1aiv. Define relevant terms that will be used throughout project.  Weight: 15% | Did not submit or incompletely defined relevant terms that will be used throughout project. | Insufficiently defined relevant terms that will be used throughout project. | Partially defined relevant terms that will be used throughout project. | Satisfactorily defined relevant terms that will be used throughout project. | Thoroughly defined relevant terms that will be used throughout project. |
| 1b. 2 references  Weight: 5% | No references provided | Does not meet the required number of references; all references poor quality choices. | Does not meet the required number of references; some references poor quality choices. | Meets number of required references; all references high quality choices. | Exceeds number of required references; all references high quality choices. |
| **Section 2: Revised** **Gantt Chart / Project Plan** | | | | | |
| 2. Update the Gantt chart or project plan (summary and detail) template, from Project Deliverable 1: Project Plan Inception, with all the project tasks.  Weight: 15% | Did not submit or incompletely updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 1: Project Plan Inception, with all the project tasks. | Insufficiently updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 1: Project Plan Inception, with all the project tasks. | Partially updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 1: Project Plan Inception, with all the project tasks. | Satisfactorily updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 1: Project Plan Inception, with all the project tasks. | Thoroughly updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 1: Project Plan Inception, with all the project tasks. |
| 3. Clarity, writing mechanics, and formatting requirements  Weight: 10% | More than 8 errors present | 7-8 errors present | 5-6 errors present | 3-4 errors present | 0-2 errors present |

**Project Deliverable 3: Database and Programming Design**

Due Week 6 and worth 150 points

This assignment consists of two (2) sections: a design document and a revised Gantt chart or project plan. **You must submit both sections as separate files for the completion of this assignment.** Label each file name according to the section of the assignment for which it is written. Additionally, you may create and / or assume all necessary assumptions needed for the completion of this assignment.

One (1) of the main functions of any business is to transform data into information. The use of relational databases has gained recognition as a standard for organizations and business transactions. A quality database design makes the flow of data seamless. The database schema is the foundation of the relational database. The schema defines the [tables](http://en.wikipedia.org/wiki/Table_(database)), [fields](http://en.wikipedia.org/wiki/Field_(computer_science)), [relationships](http://en.wikipedia.org/wiki/Relational_model), [views](http://en.wikipedia.org/wiki/View_(database)), [indexes](http://en.wikipedia.org/wiki/Index_(database)), and other elements. The schema should be created by envisioning the business, processes, and workflow of the company.

**Section 1: Design Document**

1. Write a five to ten (5-10) page design document in which you:
   1. Create a database schema that supports the company’s business and processes.
   2. Explain and support the database schema with relevant arguments that support the rationale for the structure. **Note:** The minimum requirement for the schema should entail the [tables](http://en.wikipedia.org/wiki/Table_(database)), [fields](http://en.wikipedia.org/wiki/Field_(computer_science)), [relationships](http://en.wikipedia.org/wiki/Relational_model), [views](http://en.wikipedia.org/wiki/View_(database)), and [indexes](http://en.wikipedia.org/wiki/Index_(database)).
   3. Create database tables with appropriate field-naming conventions. Then, identify primary keys and foreign keys, and explain how referential integrity will be achieved.
   4. Normalize the database tables to third normal form (3NF).
   5. Create an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. **Note:** The graphically depicted solution is not included in the required page length but must be included in the design document appendix.
   6. Explain your rationale behind the design of your E-R Diagram.
   7. Create a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. **Note:** The graphically depicted solution is not included in the required page length but must be included in the design document appendix.
   8. Explain your rationale behind the design of your DFD.
   9. Create at least two (2) sample queries that will support the organizational reporting needs.
   10. Create at least two (2) screen layouts that illustrate the interface that organizational users will utilize.

Your assignment must follow these formatting requirements:

* Be typed, double spaced, using Times New Roman font (size 12), with one-inch margins on all sides; citations and references must follow APA or school-specific format. Check with your professor for any additional instructions.
* Include a cover page containing the title of the assignment, the student’s name, the professor’s name, the course title, and the date. The cover page and the reference page are not included in the required assignment page length.
* Include charts or diagrams created in MS Visio or Dia as an appendix of the design document. All references to these diagrams must be included in the body of the design document.

**Section 2: Revised Gantt Chart / Project Plan**

Use Microsoft Project or an open source alternative, such as Open Project, to:

1. Update the Gantt chart or project plan (summary and detail) template, from *Project Deliverable 2: Business Requirements,* with all the project tasks.

The specific course learning outcomes associated with this assignment are:

* Describe the various integrative functions and processes within the information systems area, including databases, systems analysis, security, networking, computer infrastructure, human computer interaction, and Web design.
* Demonstrate the ability to evaluate organizational issues with integrative technological solutions.
* Apply integrative information technology solutions with project management tools to solve business problems.
* Use technology and information resources to research issues in information technology.
* Write clearly and concisely about strategic issues and practices in the information technology domain using proper writing mechanics and technical style conventions.

Grading for this assignment will be based on answer quality, logic/organization of the paper, and language and writing skills, using the following rubric.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Points: 150** | **Project Deliverable 3: Database and Programming Design** | | | | |
| **Criteria** | **Unacceptable**  **Below 60% F** | **Meets Minimum Expectations**  **60-69% D** | **Fair**  **70-79% C** | **Proficient**  **80-89% B** | **Exemplary**  **90-100% A** |
| **Section 1: Design Document** | | | | | |
| 1a. Create a database schema that supports the company’s business and processes.  Weight: 10% | Did not submit or incompletely created a database schema that supports the company’s business and processes. | Insufficiently created a database schema that supports the company’s business and processes. | Partially created a database schema that supports the company’s business and processes. | Satisfactorily created a database schema that supports the company’s business and processes. | Thoroughly created a database schema that supports the company’s business and processes. |
| 1b. Explain and support the database schema with relevant arguments that support the rationale for the structure. Weight: 10% | Did not submit or incompletely explained and supported the database schema with relevant arguments that support the rationale for the structure. | Insufficiently explained and supported the database schema with relevant arguments that support the rationale for the structure. | Partially explained and supported the database schema with relevant arguments that support the rationale for the structure. | Satisfactorily explained and supported the database schema with relevant arguments that support the rationale for the structure. | Thoroughly explained and supported the database schema with relevant arguments that support the rationale for the structure. |
| 1c. Create database tables with appropriate field-naming conventions then identify primary keys and foreign keys, and explain how referential integrity will be achieved.  Weight: 10% | Did not submit or incompletely created database tables with appropriate field-naming conventions. Did not submit or incompletely identified primary keys and foreign keys. Did not submit or incompletely explained how referential integrity will be achieved. | Insufficiently created database tables with appropriate field-naming conventions. Insufficiently identified primary keys and foreign keys. Insufficiently explained how referential integrity will be achieved. | Partially created database tables with appropriate field-naming conventions. Partially identified primary keys and foreign keys, explained how referential integrity will be achieved. | Satisfactorily created database tables with appropriate field- naming conventions. Satisfactorily identified primary keys and foreign keys. Satisfactorily explained how referential integrity will be achieved. | Thoroughly created database tables with appropriate field-naming conventions. Thoroughly identified primary keys and foreign keys. Thoroughly explained how referential integrity will be achieved. |
| 1d. Normalize the database tables to third normal form (3NF).  Weight: 5% | Did not submit or incompletely normalized the database tables to third normal form (3NF). | Insufficiently normalized the database tables to third normal form (3NF). | Partially normalized the database tables to third normal form (3NF). | Satisfactorily normalized the database tables to third normal form (3NF). | Thoroughly normalized the database tables to third normal form (3NF). |
| 1e. Create an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia.  Weight: 10% | Did not submit or incompletely created an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Insufficiently created an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Partially created an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Satisfactorily created an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Thoroughly created an Entity-Relationship (E-R) Diagram through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. |
| 1f. Explain your rationale behind the design of your E-R Diagram.  Weight: 5% | Did not submit or incompletely explained your rationale behind the design of your E-R Diagram. | Insufficiently explained your rationale behind the design of your E-R Diagram. | Partially explained your rationale behind the design of your E-R Diagram. | Satisfactorily explained your rationale behind the design of your E-R Diagram. | Thoroughly explained your rationale behind the design of your E-R Diagram. |
| 1g. Create a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. Weight: 10% | Did not submit or incompletely created a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Insufficiently created a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Partially created a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Satisfactorily created a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. | Thoroughly created a Data Flow Diagram (DFD) through the use of graphical tools in Microsoft Visio or an open source alternative such as Dia. |
| 1h. Explain your rationale behind the design of your DFD.  Weight: 5% | Did not submit or incompletely explained your rationale behind the design of your DFD. | Insufficiently explained your rationale behind the design of your DFD. | Partially explained your rationale behind the design of your DFD. | Satisfactorily explained your rationale behind the design of your DFD. | Thoroughly explained your rationale behind the design of your DFD. |
| 1i. Create at least two (2) sample queries that will support the organizational reporting needs.  Weight: 5% | Did not submit or incompletely created at least two (2) sample queries that will support the organizational reporting needs. | Insufficiently created at least two (2) sample queries that will support the organizational reporting needs. | Partially created at least two (2) sample queries that will support the organizational reporting needs. | Satisfactorily created at least two (2) sample queries that will support the organizational reporting needs. | Thoroughly created at least two (2) sample queries that will support the organizational reporting needs. |
| 1j. Create at least two (2) screen layouts that illustrate the interface that organizational users will utilize.  Weight: 5% | Did not submit or incompletely created at least two (2) screen layouts that illustrate the interface that organizational users will utilize. | Insufficiently created at least two (2) screen layouts that illustrate the interface that organizational users will utilize. | Partially created at least two (2) screen layouts that illustrate the interface that organizational users will utilize. | Satisfactorily created at least two (2) screen layouts that illustrate the interface that organizational users will utilize. | Thoroughly created at least two (2) screen layouts that illustrate the interface that organizational users will utilize. |
| **Section 2: Revised Gantt Chart / Project Plan** | | | | | |
| 2. Update the Gantt chart or project plan (summary and detail) template, from Project Deliverable 2: Business Requirements, with all the project tasks. Weight: 15% | Did not submit or incompletely updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 2: Business Requirements, with all the project tasks. | Insufficiently updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 2: Business Requirements, with all the project tasks. | Partially updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 2: Business Requirements, with all the project tasks. | Satisfactorily updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 2: Business Requirements, with all the project tasks. | Thoroughly updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 2: Business Requirements, with all the project tasks. |
| 3. Clarity, writing mechanics, and formatting requirements  Weight: 10% | More than 8 errors present | 7-8 errors present | 5-6 errors present | 3-4 errors present | 0-2 errors present |

**Project Deliverable 4: Infrastructure and Security**

Due Week 8 and worth 150 points

This assignment consists of two (2) sections: an infrastructure document and a revised Gantt chart or project plan. **You must submit both sections as separate files for the completion of this assignment.** Label each file name according to the section of the assignment for which it is written. Additionally, you may create and / or assume all necessary assumptions needed for the completion of this assignment.

The last section of the project plan will present the infrastructure in accordance with the parameters set forth at the outset of the project. The network solution that is chosen should support the conceived information system and allow for scalability. The network infrastructure will support organizational operations; therefore, a pictorial view of workstations, servers, routers, bridges, gateways, and access points should be used. In addition, access paths for Internet access should be depicted. A narrative should be included to explain all the nodes of the network and the rationale for the design. Lastly, using the Confidentiality, Integrity and Availability (CIA) Triangle, define the organizational security policy. CIA is a widely used benchmark for evaluation of information systems security.

**Section 1: Infrastructure Document**

1. Write a five to ten (5-10) page infrastructure document in which you:
   1. Design a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. **Note:** The graphically depicted solution is not included in the required page length.
   2. Illustrate the possible placement of servers including access paths to the Internet and firewalls. **Note:** Facility limitations, workstations, printers, routers, switches, bridges and access points should be considered in the illustration.
   3. Explain the rationale for the logical and physical topographical layout of the planned network.
   4. Create a comprehensive security policy for the company that will:
      1. Protect the company infrastructure and assets by applying the principals of CIA. **Note:** CIA is a widely used benchmark for evaluation of information systems security, focusing on the three core goals of confidentiality, integrity and availability of information.
      2. Address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information.

Your assignment must follow these formatting requirements:

* Be typed, double spaced, using Times New Roman font (size 12), with one-inch margins on all sides; citations and references must follow APA or school-specific format. Check with your professor for any additional instructions.
* Include a cover page containing the title of the assignment, the student’s name, the professor’s name, the course title, and the date. The cover page and the reference page are not included in the required assignment page length.
* Include charts or diagrams created in MS Visio or Dia as an appendix of the infrastructure document. All references to these diagrams must be included in the body of the infrastructure document.

**Section 2: Revised Gantt Chart / Project Plan**

Use Microsoft Project or an open source alternative, such as Open Project, to:

1. Update the Gantt chart or project plan (summary and detail) template, from *Project Deliverable 3: Database and Programming Design,* with all the project tasks.

The specific course learning outcomes associated with this assignment are:

* Demonstrate an understanding of existing and emerging information technologies and strategic impact on organizational operations.
* Evaluate the issues and challenges associated with information technology integration.
* Evaluate the ethical concerns that information technology solve or present in a global context.
* Use technology and information resources to research issues in information technology.
* Write clearly and concisely about strategic issues and practices in the information technology domain using proper writing mechanics and technical style conventions.

Grading for this assignment will be based on answer quality, logic/organization of the paper, and language and writing skills, using the following rubric.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Points: 150** | **Project Deliverable 4: Infrastructure and Security** | | | | |
| **Criteria** | **Unacceptable**  **Below 60% F** | **Meets Minimum Expectations**  **60-69% D** | **Fair**  **70-79% C** | **Proficient**  **80-89% B** | **Exemplary**  **90-100% A** |
| **Section 1: Infrastructure Document** | | | | | |
| 1a. Design a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. Weight: 20% | Did not submit or incompletely designed a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. | Insufficiently designed a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. | Partially designed a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. | Satisfactorily designed a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. | Thoroughly designed a logical and physical topographical layout of the planned network through the use of graphical tools in Microsoft Word or Visio, or an open source alternative such as Dia. |
| 1b. Illustrate the possible placement of servers including access paths to the Internet and firewalls.  Weight: 20% | Did not submit or incompletely illustrated the possible placement of servers including access paths to the Internet and firewalls. | Insufficiently illustrated the possible placement of servers including access paths to the Internet and firewalls. | Partially illustrated the possible placement of servers including access paths to the Internet and firewalls. | Satisfactorily illustrated the possible placement of servers including access paths to the Internet and firewalls. | Thoroughly illustrated the possible placement of servers including access paths to the Internet and firewalls. |
| 1c. Explain the rationale for the logical and physical topographical layout of the planned network.  Weight: 15% | Did not submit or incompletely explained the rationale for the logical and physical topographical layout of the planned network. | Insufficiently explained the rationale for the logical and physical topographical layout of the planned network. | Partially explained the rationale for the logical and physical topographical layout of the planned network. | Satisfactorily explained the rationale for the logical and physical topographical layout of the planned network. | Thoroughly explained the rationale for the logical and physical topographical layout of the planned network. |
| 1di. Create a comprehensive security policy for the company that will protect the company infrastructure and assets by applying the principals of CIA. Weight: 10% | Did not submit or incompletely created a comprehensive security policy for the company that will protect the company infrastructure and assets by applying the principals of CIA. | Insufficiently created a comprehensive security policy for the company that will protect the company infrastructure and assets by applying the principals of CIA. | Partially created a comprehensive security policy for the company that will protect the company infrastructure and assets by applying the principals of CIA. | Satisfactorily created a comprehensive security policy for the company that will protect the company infrastructure and assets by applying the principals of CIA. | Thoroughly created a comprehensive security policy for the company that will protect the company infrastructure and assets by applying the principals of CIA. |
| 1dii. Create comprehensive security policy for the company that will address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information.  Weight: 10% | Did not submit or incompletely created a comprehensive security policy for the company that will address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information. | Insufficiently created a comprehensive security policy for the company that will address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information. | Partially created a comprehensive security policy for the company that will address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information. | Satisfactorily created a comprehensive security policy for the company that will address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information. | Thoroughly created a comprehensive security policy for the company that will address ethical aspects related to employee behavior, contractors, password usage, and access to networked resources and information. |
| **Section 2: Revised Gantt Chart / Project Plan** | | | | | |
| 2. Update the Gantt chart or project plan (summary and detail) template, from Project Deliverable 3: Database and Programming Design, with all the project tasks.  Weight: 15% | Did not submit or incompletely updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 3: Database and Programming Design, with all the project tasks. | Insufficiently updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 3: Database and Programming Design, with all the project tasks. | Partially updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 3: Database and Programming Design, with all the project tasks. | Satisfactorily updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 3: Database and Programming Design, with all the project tasks. | Thoroughly updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 3: Database and Programming Design, with all the project tasks. |
| 3. Clarity, writing mechanics, and formatting requirements  Weight: 10% | More than 8 errors present | 7-8 errors present | 5-6 errors present | 3-4 errors present | 0-2 errors present |

**Final Project: Project Plan**

Due Week 10 and worth 300 points

This assignment consists of three (3) sections: a written project plan, a revised Gantt chart or project plan, and a project plan PowerPoint presentation. **You must submit the three (3) sections as separate files for the completion of this assignment.** Label each file name according to the section of the assignment for which it is written. Additionally, you may create and / or assume all necessary assumptions needed for the completion of this assignment.

While taking all business and project parameters into consideration, make quality assumptions to support the following requirements.

**Section 1: Written Project Plan**

You are now in the final stage of the project plan development. All previous documentation will be combined into one (1) document that will serve as the statement of work for the project. Your goal is to have the project approved by the executive team and the venture capital group. The project plan is very detailed which is appropriate to accomplish the monumental task of implementation. However, the executive team is only interested in a ten (10) minute summation. Therefore, you also must create a compelling executive summary that is supported by your detail that convinces the executive group that your solution is optimal.

1. Write an eight to ten (8-10) page executive summary in which you provide a high-level technical overview of your project where you address the following:
   1. Describe the scope of the project and control measures.
   2. Describe the goals and objectives of the project.
   3. Give a detailed, realistically estimated cost analysis of the entire project.
   4. Relate the value of the project plan solution to the competitive advantage that information technology will afford your organization.
   5. Provide all aspects of the information technology implementation into the project plan.
   6. Use at least five (5) quality resources in this assignment. **Note:** Wikipedia and similar Websites do not qualify as quality resources.

Your assignment must follow these formatting requirements:

* Be typed, double spaced, using Times New Roman font (size 12), with one-inch margins on all sides; citations and references must follow APA or school-specific format. Check with your professor for any additional instructions.
* Include a cover page containing the title of the assignment, the student’s name, the professor’s name, the course title, and the date. The cover page and the reference page are not included in the required assignment page length.
* Include charts or diagrams created in MS Visio and MS Project as appendix of the Word document. Make reference of these files in the body of the Word document.

**Section 2: Revised Gantt Chart / Project Plan**

Use Microsoft Project or an open source alternative, such as Open Project, to:

1. Update the Gantt chart or project plan (summary and detail) template, from *Project Deliverable 4: Infrastructure and Security*, with all the project tasks.

**Section 3: Project Plan PowerPoint Presentation**

Additional to your detailed executive summary you must present your findings to the executive team and the venture capital group that, along with the executive summary, will convince the group that your solution is optimal.

1. Create a ten to fifteen (10-15) slide PowerPoint presentation in which you:
   1. Illustrate the concepts from your written report in Section 1 of this assignment.
   2. Create **bulleted** speaking notes for your presentation to the executive board in the Notes section of the PowerPoint. **Note:** You may create or assume any fictitious names, data, or scenarios that have not been established in this assignment for a realistic flow of communication.
   3. Use a professional technically written style to graphically convey the information.

The specific course learning outcomes associated with this assignment are:

* Demonstrate an understanding of existing and emerging information technologies and strategic impact on organizational operations.
* Evaluate the issues and challenges associated with information technology integration.
* Summarize the competitive advantage that information technology affords to organizations.
* Use technology and information resources to research issues in information technology.
* Write clearly and concisely about strategic issues and practices in the information technology domain using proper writing mechanics and technical style conventions.

Grading for this assignment will be based on answer quality, logic / organization of the paper, and language and writing skills, using the following rubric.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Points: 300** | **Final Project: Project Plan** | | | | |
| **Criteria** | **Unacceptable**  **Below 60% F** | **Meets Minimum Expectations**  **60-69% D** | **Fair**  **70-79% C** | **Proficient**  **80-89% B** | **Exemplary**  **90-100% A** |
| **Section 1: Written Project Plan** | | | | | |
| 1a. Describe the scope of the project and control measures. Weight: 5% | Did not submit or incompletely described the scope of the project and control measures. | Insufficiently described the scope of the project and control measures. | Partially described the scope of the project and control measures. | Satisfactorily described the scope of the project and control measures. | Thoroughly described the scope of the project and control measures. |
| 1b. Describe the goals and objectives of the project.  Weight: 5% | Did not submit or incompletely described the goals and objectives of the project. | Insufficiently described the goals and objectives of the project. | Partially described the goals and objectives of the project. | Satisfactorily described the goals and objectives of the project. | Thoroughly described the goals and objectives of the project. |
| 1c. Give a detailed, realistically estimated cost analysis of the entire project.  Weight: 10% | Did not submit or incompletely gave a detailed, realistically estimated cost analysis of the entire project. | Insufficiently gave a detailed, realistically estimated cost analysis of the entire project. | Partially gave a detailed, realistically estimated cost analysis of the entire project. | Satisfactorily gave a detailed, realistically estimated cost analysis of the entire project. | Thoroughly gave a detailed, realistically estimated cost analysis of the entire project. |
| 1d. Relate the value of the project plan solution to the competitive advantage that information technology will afford your organization.  Weight: 10% | Did not submit or incompletely related the value of the project plan solution to the competitive advantage that information technology will afford your organization. | Insufficiently related the value of the project plan solution to the competitive advantage that information technology will afford your organization. | Partially related the value of the project plan solution to the competitive advantage that information technology will afford your organization. | Satisfactorily related the value of the project plan solution to the competitive advantage that information technology will afford your organization. | Thoroughly related the value of the project plan solution to the competitive advantage that information technology will afford your organization. |
| 1e. Provide all aspects of the information technology implementation into the project plan.  Weight: 5% | Did not submit or incompletely provided all aspects of the information technology implementation into the project plan. | Insufficiently provided all aspects of the information technology implementation into the project plan. | Partially provided all aspects of the information technology implementation into the project plan. | Satisfactorily provided all aspects of the information technology implementation into the project plan. | Thoroughly provided all aspects of the information technology implementation into the project plan. |
| 1f. 5 references  Weight: 5% | No references provided | Does not meet the required number of references; all references poor quality choices. | Does not meet the required number of references; some references poor quality choices. | Meets number of required references; all references high quality choices. | Exceeds number of required references; all references high quality choices. |
| **Section 2: Revised Gantt Chart / Project Plan** | | | | | |
| 2. Update the Gantt chart or project plan (summary and detail) template, from Project Deliverable 4: Infrastructure and Security, with all the project tasks.  Weight: 15% | Did not submit or incompletely updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 4: Infrastructure and Security, with all the project tasks. | Insufficiently updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 4: Infrastructure and Security, with all the project tasks. | Partially updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 4: Infrastructure and Security, with all the project tasks. | Satisfactorily updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 4: Infrastructure and Security, with all the project tasks. | Thoroughly updated the Gantt chart or project plan (summary and detail) template, from Project Deliverable 4: Infrastructure and Security, with all the project tasks. |
| **Section 3: Project Plan PowerPoint Presentation** | | | | | |
| 3a. Illustrate the concepts from your written report in Section 1 of this assignment.  Weight: 10% | Did not submit or incompletely illustrated the concepts from your written report in Section 1 of this assignment. | Insufficiently illustrated the concepts from your written report in Section 1 of this assignment. | Partially illustrated the concepts from your written report in Section 1 of this assignment. | Satisfactorily illustrated the concepts from your written report in Section 1 of this assignment. | Thoroughly illustrated the concepts from your written report in Section 1 of this assignment. |
| 3b. Create bulleted speaking notes for your presentation to the executive board in the Notes section of the PowerPoint.  Weight: 15% | Did not submit or incompletely created bulleted speaking notes for your presentation to the executive board in the Notes section of the PowerPoint. | Insufficiently created bulleted speaking notes for your presentation to the executive board in the Notes section of the PowerPoint. | Partially created bulleted speaking notes for your presentation to the executive board in the Notes section of the PowerPoint. | Satisfactorily created bulleted speaking notes for your presentation to the executive board in the Notes section of the PowerPoint. | Thoroughly created bulleted speaking notes for your presentation to the executive board in the Notes section of the PowerPoint. |
| 3c. Use a professional technically written style to graphically convey the information.  Weight: 10% | Did not submit or incompletely used a professional technically written style to graphically convey the information. | Insufficiently used a professional technically written style to graphically convey the information. | Partially used a professional technically written style to graphically convey the information. | Satisfactorily used a professional technically written style to graphically convey the information. | Thoroughly used a professional technically written style to graphically convey the information. |
| 4. Clarity, writing mechanics, and formatting requirements  Weight: 10% | More than 8 errors present | 7-8 errors present | 5-6 errors present | 3-4 errors present | 0-2 errors present |

**Weekly Course Schedule**

The purpose of the course schedule is to give you, at a glance, the required preparation, activities, and evaluation components of your course. For more information about your course, whether on-ground or online, access your online course shell.

The expectations for a 4.5 credit hour course are for students to spend 13.5 hours in weekly work. This time estimate includes preparation, activities, and evaluation regardless of the delivery mode.

**Instructional Materials**

In order to be fully prepared, obtain a copy of the required textbooks and other instructional materials prior to the first day of class. When available, Strayer University provides a link to the first three (3) chapters of your textbook(s) in eBook format. Check your online course shell for availability.

Review the online course shell or check with your professor to determine whether Internet-based assignments and activities are used in this course.

Strayer students are encouraged to purchase their course materials through the Strayer Bookstore. [http://www.strayerbookstore.com](http://www.strayerbookstore.com/).  If a lab is required for the course, the Strayer Bookstore is the only vendor that sells the correct registration code so that Strayer students may access labs successfully.

**Kaltura Video Sessions**

Instructors will record video or screen capture sessions using **Kaltura** in Weeks 2 and 4. Your instructor may also provide these sessions on a weekly basis to act as student tutorials on the following applicable procedures:

* Running and navigating the software or labs that will be used in this course
* Demonstrating the use of relevant programming languages and tools through screen capture and live navigation
* Logging into the lab environments and running a sample lab required in this course (if labs are required)
* Demonstrating the downloading and installing of software to a student’s computer (if necessary) or using the software already installed in the Strayer University campus labs
* Locating or finding files and other student materials that may be required to use in assignments
* Submitting assignments in Blackboard

You are strongly advised to use the material provided by faculty in these sessions. Online and Ground instructors will post the Kaltura video recorded sessions to the Instructor Insights folder within the weekly tabs of the online course shell (Blackboard).

**Discussions**

To earn full credit in an online threaded discussion, students must have one original post and a minimum of one other post per discussion thread.

Please note: Material in the online class will be made available three weeks at a time to allow students to work ahead, however, faculty will be focused on and responding only to the current calendar week. As it is always possible that students could lose their work due to unforeseen circumstances, it is a best practice to routinely save a working draft in a separate file before posting in the course discussion area.  
  
Professors hold discussions during class time for on-ground students. Check with your professor if any additional discussion participation is required in the online course shell outside of class hours.

**Assignments**

A standardized performance grading rubric is a tool your professor will use to evaluate your written assignments. Review the rubric before submitting assignments that have grading rubrics associated with them to ensure you have met the performance criteria stated on the rubric.

Grades are based on individual effort. There is no group grading; however, working in groups in the online or on-ground classroom is acceptable.

Assignments for online students are always submitted through the online course shell. On-ground professors will inform students on how to submit assignments, whether in paper format or through the online course shell.

**Association for Computing Machinery (ACM) Digital Library**

The ACM Digital Library is a complete collection of all of ACM’s publications, including ACM journals, conference proceedings, magazines, newsletters, and multimedia titles. The ACM Digital Library contains the largest and most complete full-text archive of articles on computing available today, consisting of: 2.0+ million pages of full-text articles, 20,000 new full-text articles added each year, 40+ high-impact journals, 270+ conference proceedings titles, 9 magazines (including the flagship Communications of the ACM), and 43 special interest groups contributing content.

You are encouraged to search the ACM Digital Library for full-text articles for your writing assignments and term papers refereed referenced material. For more information on the ACM Digital Library, please watch the video located in the Student Center tab of the online course shell (Blackboard).

To access the ACM Digital Library:

Students:

1. Login to iCampus: <http://icampus.strayer.edu>
2. Click on Campus & Library
3. Mouse-over or click on Learning Resource Center
4. Click on Databases
5. Scroll down to Information Systems / Computing
6. Click on ACM Digital Library

**Resources**

The Resource Center navigation button in the online course shell contains helpful links. Strayer University Library Resources are available here as well as other important information. You should review this area to find resources and answers to common questions.

Technical support is available for the following:

* For **technical questions**, please contact Strayer Online Technical Support by logging in to your iCampus account at [https://icampus.strayer.edu/login](https://icampus.strayer.edu/login%20) and submitting a case under “Student Center,” then “Submit Help Ticket.” If you are unable to log in to your iCampus account, please contact Technical Support via phone at (877) 642-2999.
* For **concerns with your class**, please access the Solution Center by logging in to your iCampus account at [https://icampus.strayer.edu/login](https://icampus.strayer.edu/login%20) and submitting a case under “Student Center,” then “Submit Help Ticket.” If you are unable to log in to your iCampus account, please contact the IT Help Desk at (866) 610-8123 or at <mailto:IThelpdesk@Strayer.edu>.

TurnItIn.com is an optional online tool to assess the originality of student written work. Check with your professor for access and use instructions.

The **Strayer Policies** link on the navigation bar in the online course shell contains academic policies. It is important that students be aware of these policies.