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### Overview

These 12 week online courses are offered quarterly that consists of online module units on the weekly topic plus readings from the textbook and Internet articles on that topic. After the student reads each unit, there are discussion questions to answer and/or comment on other students’ responses. There is a pre-test practice that you can take at the beginning of the module to test your knowledge and a post-test practice exam to see how much you have learned from the module and discussions.

Optional 30 – 60 minute online discussion sessions are held every week or every other week (to work around travel or vacation schedules). These discussion sessions are scheduled based on when the students and instructor are available. We go over the pre-test questions, discussion questions, and any other questions that arise.

### Required Technology

Students must have Internet computer access that supports Windows Live Meeting. A headset with attached mike works best for discussion sessions.

### For More Information

Visit <http://iccp.org/certification/training/online> or contact the ICCP office <http://iccp.org/contact>

### Business Intelligence and Analytics Online Course

#### Textbook

The text used for this class is The New Era of Enterprise Business Intelligence: Using Analytics to Achieve a Global Competitive Advantage by Mike Biere, IBM Press, 2011. ISBN-10: 0-13-707542-3, SBN-13: 978-0-13-707542-3, and available through [www.amazon.com](http://www.amazon.com).

Any introductory statistics book would be useful to reference as statistical concepts are covered in Module 8 and are tested within the ICCP Business Intelligence and Analytics exam. It is assumed that the student has an introductory level of statistical knowledge as this course is not a statistics course.

#### Course Agenda

- Week 1 ... Business Intelligence Concepts
- Week 2 ... BI Current State Considerations
- Week 3 ... BI Infrastructure and Tool Functional Areas
- Week 4 ... BI and Data Management
- Week 5 ... BI and Organizational Roles
- Week 6 ... Corporate Performance Management (CPM)
- Week 7 ... Inputs for Decision Making
- Week 8 ... Analytics Techniques
- Week 9 ... BI Justification
- Week 10 ... Evaluation and Selection of a BI Platform and Tool
- Week 11 ... BI Solution Lifecycle
- Week 12 ... Additional Areas for BI Consideration

## Data and Information Quality Online Course

### Textbook

The text used for this class is [A Improving Data Warehouse and Business Information Quality](#) by Larry P. English, Wiley, 1999, ISBN-10: 0471253839; ISBN-13: 978-0471253839, and available through [www.amazon.com](http://www.amazon.com).

### Course Agenda

Week 1 ... Data Quality Issues, Definitions and Importance  
 Week 2 ... Quality Approaches and Relationship to Information  
 Week 3 ... Data Quality Frameworks, Methodologies, Maturity Models, and Quality Management Awards  
 Week 4 ... Assessment: Data Definition and Information Architecture Quality  
 Week 5 ... Assessment: Data / Information Quality  
 Week 6 ... Measurement: Poor-Quality Information Costs  
 Week 7 ... Measurement: Data Quality  
 Week 8 ... Information Process Improvement: Data Defect Prevention  
 Week 9 ... Data / Information Quality Tools and Techniques  
 Week 10 ... Data Governance Function and Stewardship Concepts  
 Week 11 ... Implementation: Data / Information Quality Environment  
 Week 12 ... Data / Information Quality Sustainment, Monitoring and Metrics Reporting

## Data Management Online Course

### Textbook

The text used for this class is the [DAMA Data Management Body of Knowledge](#) (DAMA-DMBOK) available through [www.amazon.com](http://www.amazon.com).

### Course Agenda

Week 1 ... Data Management Process  
 Week 2 ... Data Governance  
 Week 3 ... Data Architecture  
 Week 4 ... Data Development  
 Week 5 ... Data Operations  
 Week 6 ... Data Security  
 Week 7 ... Data Warehousing and Business Intelligence  
 Week 8 ... Reference and Master Data Management  
 Week 9 ... Document and Content Management  
 Week 10 ... Meta-data Management  
 Week 11 ... Data Quality  
 Week 12 ... Professional Development

## Data Warehousing Online Course

### Textbook

The text used for this class is [A Manager's Guide to Data Warehousing](#) by Laura L. Reeves, Wiley, 2009, ISBN-10: 0470176385, ISBN-13: 978-0470176382, and available through [www.amazon.com](http://www.amazon.com).

### Course Agenda

Week 1 ... Data Warehousing and Business Intelligence Concepts  
 Week 2 ... Data Warehousing and Business Intelligence Use  
 Week 3 ... Data Warehousing Management  
 Week 4 ... Data Warehousing Roles  
 Week 5 ... Data Warehousing Architectures  
 Week 6 ... Data Warehousing and BI Technical Architecture  
 Week 7 ... Data Warehousing Analysis  
 Week 8 ... Data Modeling and Design  
 Week 9 ... Data Warehousing Process Relationship  
 Week 10 ... Data Warehousing Development  
 Week 11 ... BI Application Development Activities  
 Week 12 ... Implementation and Ongoing Activities

## IS Core Online Course

### Textbook

The text used for this class is [Management Information Systems for the Information Age](#) by Stephen Haag and Maeve Cummings, McGraw Hill Higher Education; 8th revised (international) edition, December 1, 2009, ISBN-10: 0070167095, ISBN-13: 978-0070167094, and available through [www.amazon.com](http://www.amazon.com).

### Course Agenda

Week 1 ... Information Systems (IS): Role, Standards, Business Drivers and, Strategies  
 Week 2 ... Enterprise Architecture  
 Week 3 ... Hardware, Software and Network Infrastructure  
 Week 4 ... The Internet and World Wide Web  
 Week 5 ... Electronic Commerce (E-Commerce)  
 Week 6 ... Project Management  
 Week 7 ... Systems Development Approaches: Insourcing, Self-Sourcing and Outsourcing  
 Week 8 ... Application and System Types  
 Week 9 ... Data Management  
 Week 10 ... Data Modeling  
 Week 11 ... Decision Support Systems (DSS) and Business Intelligence (BI)  
 Week 12 ... Ethics, Privacy and Security

## Systems Development Online Course

### **Textbook**

The text used for this class is Modern Systems Analysis and Design by Jeffrey A. Hoffer, Joey George and Joe Valacich, Pearson Education Inc. (Prentice-Hall), 6th edition (global international), copyright 2011, published Feb 23, 2010, ISBN-10: 0135094895, ISBN-13: 9780135094891, ISBN-13: 978-0-13-707542-3, and available through [www.amazon.com](http://www.amazon.com).

### **Course Agenda**

Week 1 ... Systems Concepts and Roles

Week 2 ... Systems Development Approaches

Week 3 ... Project Management Process, Methodologies and Techniques

Week 4 ... Systems Project Planning

Week 5 ... Systems Requirements Determination

Week 6 ... Systems Process Requirements Structuring

Week 7 ... Systems Data Requirements Structuring

Week 8 ... Logical and Physical Database Design

Week 9 ... Design Forms, Reports, Interfaces and Dialogues

Week 10 ... Distributed and Internet Systems Design Considerations and Documentation

Week 11 ... Implementing the System

Week 12 ... Maintaining the System