

## Application Details

---

### Manage Application: ALG Textbook Transformation Grants Round 8

---

**Award Cycle:** Round 8

**Internal Submission Deadline:** Sunday, December 11, 2016

---

**Application Title:** 308

**Application ID:** #001313

**Submitter First Name:** Teresa

**Submitter Last Name:** Adams

**Submitter Title:** Associate Professor of Information Systems

**Submitter Email Address:** tadams40@gsu.edu

**Submitter Phone Number:** 678-570-5769

**Submitter Campus Role:** Proposal Investigator (Primary or additional)

**Applicant First Name:** Teresa

**Applicant Last Name:** Adams

**Co-Applicant Name(s):** Illiad Connally

**Applicant Email Address:** tadams40@gsu.edu

**Applicant Phone Number:** 678-570-5769

**Primary Appointment Title:** Associate Professor of Information Systems

**Institution Name(s):** Georgia State University- Perimeter College

**Submission Date:** Tuesday, December 13, 2016

---

**Team Members (Name, Title, Department, Institutions if different, and email address for each):**

Project Lead and Faculty Subject Matter Expert:

Teresa Adams, Associate Professor of Information Systems  
tadams40@gsu.edu

Project Investigator and Faculty Subject Matter Expert:

Illiad Connally, Assistant Professor of Information Systems  
iconnally@gsu.edu

**Sponsor, (Name, Title, Department, Institution):**

Dr. James Kahiga, Chair, Department of Business, Georgia State University - Perimeter College

**Proposal Title:** 308

**Course Names, Course Numbers and Semesters Offered:**

**CIS 2010 (Formerly BISM 2601) Introduction to Information Systems**

CIS 2010 is offered every semester including Fall, Spring and Summer at both Perimeter College and Georgia State University across six different campuses.

During the 2015-2016 academic year, Perimeter College offered approximately 24 sections of CIS 2010 during the Fall and Spring semester. Approximately 8 sections of CIS 2010 were offered by Perimeter College during the summer semester. The average enrollment per class was 23 students. CIS 2010 courses at Perimeter College are offered on-line and on-campus. On-campus sections of the CIS 2010 are taught in a computer classroom where students have ready access to computers during class.

During the 2015-2016 academic year, Georgia State University offered approximately 25 sections of CIS 2010 during the Fall and Spring semester. Approximately 8 sections of CIS 2010 were offered by Perimeter College during the summer semester. The average enrollment per class was 30 students. Currently, CIS 2010 courses at Georgia State University are offered in a lecture classroom without computer access for students.

**Average Number of Students per Course Section:** 23 student at PC 30 student at GSU

**Number of Course Sections Affected by Implementation in Academic Year:** 56 sections at PC 58 sections at GSU

**Total Number of Students Affected by Implementation in Academic Year:** 1,288 at PC 1,740 at GSU

**List the original course materials for students (including title, whether optional or required, & cost for each item):**

Perimeter College currently required materials for CIS 2010 (formerly BISM 2601): Business Driven Information Systems; by Baltzan (w/SimNet for Excel) ISBN: 9781259975066 (custom bundle) COST: \$115.50 MANDATORY: YES TEXTBOOK LINK: [http://www.bkstr.com/ProductDisplay?urlRequestType=Base&catalogId=10001&categoryId=9604&productId=75616567&errorViewName=ProductDisplayErrorView&langId=-1&top\\_category=&parent\\_category\\_rn=&storeId=10292](http://www.bkstr.com/ProductDisplay?urlRequestType=Base&catalogId=10001&categoryId=9604&productId=75616567&errorViewName=ProductDisplayErrorView&langId=-1&top_category=&parent_category_rn=&storeId=10292)

Georgia State University currently required materials for CIS 2010: Intro to Information Systems by Rainer (w/WileyPLUS Learning Card Set) ISBN: 9781119231769 COST: \$169.00 MANDATORY: YES TEXTBOOK LINK: <http://www.bkstr.com/webapp/wcs/stores/servlet/CourseMaterialsResultsView?catalogId=10001&categoryId=9604&storeId=10489&langId=-1&campusId=263&programId=403&termId=100045097&divisionDisplayName=%20&departmentDisplayName=CIS&courseDisplayName=2010&sessionDisplayName=14032&demoKey=d&purpose=browse>

**Requested Amount of Funding:** \$10,800

**Original per Student Cost:** \$115 for Perimeter College Students \$169 for Georgia State University Students

**Post-Proposal Projected Student Cost:** \$35 for Perimeter College & Georgia State University Students

**Projected Per Student Savings:** \$80 for Perimeter College Students \$134 for Georgia State University Students

**Projected Total Annual Student Savings:** \$103 for Perimeter College Students \$233 for Georgia State University Students

**Creation and Hosting Platforms Used ("n/a" if none):**

**Course Delivery:**

**Brightspace/D2L:** The state-wide adopted learning management system, Brightspace (formerly D2L) will serve as the main delivery platform for CIS 2010. Brightspace provides a common interface familiar to many students. A course interface within Brightspace can be easily customized via widgets to integrate a variety of publisher and vendor applications.

## Course Content:

**Creative Commons License (CCL) Textbook:** Adoption and adaptation of a "creative common license" textbook will be used as the basis for disseminating Information System concept and theory. CCL materials are free and provide the greatest latitude for using the material. Materials licensed as CCL may be used in any way a user likes including to create new works as long as the material originated by the creator is properly credited. This type of license is recommended for dissemination and use of licensed materials to large audiences.

### **Online Data Analytics Courses:**

**DataCamp.Com:** The DataCamp.com offers a unique interactive platform for teaching data science and analytic tools via a browser environment. The website features several best-in-class courses on topics identified for inclusion in the "newly revised" CIS 2010 course such as R programming. DataCamp courses are 100% experiential and extremely effective. In addition to ready-made courses, DataCamp offers course authoring tools that allow instructors to create and/or modify their own interactive technology skills courses. Additionally, instructors can integrated student grades into D2L as DataCamp provides integration with learning management systems such as D2L. DataCamp is available to students initially for free followed by a nominal fee for as low as \$9 per month. The monthly fee is largely optional and includes the ability to earn marketable certificates in a variety of data science courses.

**Lynda.Com Courses:** Lynda.com, the online video tutorial site, is available at no charge to Georgia State University and Perimeter College students, faculty, and staff. Lynda.com offers tutorials on analytic tools such as Excel and Tableau which are topics that have been incorporated into the newly modified CIS 2010. Lynda.Com lessons will be analyzed and incorporated into D2L assignments through playlists and customized widgets.

**Proposal Category:** Specific Top 100 Undergraduate Courses

**Final Semester of Instruction:** Fall 2017

### **Project Goals:**

The "Introduction to Information Systems" course is an undergraduate course required course for all business majors at both Perimeter College and Georgia State University. The course is known as CIS 2010 at Georgia State University and was formerly known as BISM 2601 at Perimeter College. As of Fall 2016, Perimeter College renamed BISM2601 to CIS 2010.

The objective of CIS 2010 is to familiarize students with information system theory. In addition, students have traditionally received rudimental exposure to the applications used in business including enterprise applications, spreadsheets and databases.

Upon the merger of Perimeter College with Georgia State University, the CIS discipline at both

institutions were asked to come up with a cohesive course revision to CIS 2010 which entailed greater problem solving and data analytic skills. These new competencies are to be incorporated into all CIS 2010 courses by Fall of 2017 through the use of analytical applications such as Excel, Tableau and the R programming language.

The more "analytical approach" to CIS 2010 presents many challenges the biggest of which is a suitable textbook. At present, there is no one textbook that adequately addresses "Information Systems" concepts AND the analytical tools to be covered in the newly, revised CIS 2010 course (Excel, R Programming, Tableau).

Currently, CIS 2010 students are required an "Information Systems" concept textbook for 119 to \$169 which includes a "registration code" to the publisher's copyrighted tools and websites. Students unable to afford a new textbook and who's s professor require they access a publisher's tools often find themselves in an untenable financial position as used textbooks almost always lack a valid publisher registration code.

Given the "Information System" textbook costs well over a \$100, any attempt to bundle the concepts book with other suitable texts on Excel, Tableau or R programming would likely prove extremely cost prohibitive for students. Yet a complex topic such as the R programming requires well delineated instruction in order to ensure student success.

Hence our primary goals is to compile high quality teaching materials from open-access and low cost sources that meet the specified course outcomes. In so doing, other goals we wish to meet include:

- Provide low-cost learning materials to students in electronic and printable format.

- Ensure the pedagogy used aligns with the common course outline.

- Emphasize current technology through online resources and visualized media.

- Measure and compare student performance as to assess success of learning objectives.

- Emphasize hands-on experiences that provide students with practical analytical skills and knowledge

### **Statement of Transformation:**

A comprehensive "Introduction to Information Systems" course will be developed to provide students with an experiential understanding of Information Systems and data analytics in business. The content will be delivered via Brightspace/D2L utilizing open content enhanced by interactive, hands-on assignments, engaging discussions and integrated assessments. These elements will be designed to enhance learning outcomes as well as the student learning experience.

Stakeholders include students, instructors and businesses.

Students will benefit the most from this project as they will receive an up-to-date and in-depth understanding of the emerging technology trends in business. They will also achieve practical, hands-on skills utilizing data analytics tools commonly used in business.

Instructors teaching the Introduction to Information Systems course will also benefit by having access to comprehensive content and ready-to-teach materials.

Businesses and society will also reap the benefits of students able to thinking critically and analytically.

### **Transformation Action Plan:**

- Review CCL textbook materials and choose the relevant, high quality content
- Review Excel, R programming and Tableau tutorials and online courses for relevancy & quality
- Organize content for each of the course outcomes into course modules
- Develop course modules in Brightspace/D2L
- Integrate external content into Brightspace/D2L
- Develop presentation, assignments, test banks, and exercises into D2L course

**Quantitative & Qualitative Measures:** A study analyzing student performance on graded course content including assignments, quizzes, and exams will be conducted and compared to previous course sections as well as sections not utilizing the integrated version of the course. An anonymous survey of students perceived learning experience will be conducted via an online survey. Questions will be composed to analyze and validate the learning satisfaction and effectiveness of the course. The survey outcomes will be compared to surveys given to participant in sections not piloting the integrated course. Faculty will also be asked complete a survey regarding the ease of use, accuracy, quality and appropriateness of the material.

### **Timeline:**

Spring Semester 2017

1. Adopt CCL textbook
2. Adapt & Modify CCL textbook
3. Adapt DataCamp course modules
4. Create Brightspace/D2L Course Template

## Summer Semester 2017

1. Train Instructors
2. Pilot Course during Summer Sections
3. Assess Course Outcomes
4. Review & Modify Course Content

## Fall Semester 2017

1. Final Course Rollout & Delivery

### **Budget:**

#### **Part A: Course Overload Compensation - \$10,000**

The overload compensation is for the time and effort spent on developing and redesigning the transformed courses utilizing Brightspace/D2L, CCL adopted textbook, DataCamp courses and Lynda.com courses.

Teresa Adams, Project Lead and Faculty Subject Matter Expert: \$5,000 for overload compensation in 2016-2017 academic year.

Illiad Connally, Faculty Subject Matter Expert: \$5,000 for overload compensation in 2016-2017 academic year.

#### **Part B: Training/ Travel - \$800**

ALG Project Training travel for two team members, Teresa Adams and Illiad Connally to meet and train with DataCamp Developers.

**Total Budget: \$10,800**

### **Sustainability Plan:**

The sustainability plan is to develop the course structure and content for CIS 2010 during the Spring of 2017. The course will be piloted in two on-line sections as well as two on-campus sections of CIS 2010 during the Summer semester of 2017. Modifications to the course shall be implemented prior to Fall Semester 2017.

---

555 North Indian Creek Drive  
Clarkston, GA 30021

Phone 678-212-7500  
Fax 678-212-7505  
Web perimeter.gsu.edu



December 10, 2016

Dear Affordable Learning Grant Committee:

I am writing in support of a grant proposal for the ALG Textbook Transformation Grant. The grant is being submitted to develop course content for the course: CIS 2010 Introduction to Information System. The principle investigator and key personnel are working on a no-cost textbook for the course and wish to further their work with refined content and conversion to the iCollege/D2L Learning Management System. The grant amount of \$10,800 will be utilized for course release time requested by each person and expenses related to the content development, the licensing and the purchase of media content.

Thank you for reviewing the enclosed grant. My colleagues and I look forward to working with you.

Sincerely,

**M. J. Kahiga, Ph.D.**

Digitally signed by M. J. Kahiga, Ph.D.  
DN: cn=M. J. Kahiga, Ph.D., o=Perimeter College, Georgia State  
University, ou=Chair, Business/Health/Department,  
email=m.j.kahiga@perimeter.edu, c=US  
Date: 2016.12.10 11:28:38 -0500

M. James Kahiga, Ph.D.  
Department Chair  
Business/ Kinesiology & Health/Sign Language Interpreter Training/Dental Hygiene



# CIS 2010

## Introduction to Digital Innovation

### **Focus and Motivation:**

This course develops the digital competencies necessary to apply the power of emerging digital technologies for business and society. The course provides 1) a functional understanding of digital technologies, 2) essentials of programming logic, 3) data management, analysis, visualization and interpretation skills, and 4) the ability to combine and apply digital technologies for desired business outcomes and societal impacts.

Digital technologies are undergoing rapid, concurrent and complementary developments affecting software, hardware and internet access technologies. In addition, computer tools and techniques favored by business change rapidly as innovation shifts from functional area systems to eBusiness and networked communities, to social computing, analytics and Internet of Things. This course will engage students in spreadsheets, statistical computing environments and visualization tools for hands-on learning of digital building blocks that innovators use when addressing business problems<sup>1</sup>.

### **Computer Skills Prerequisites**

Although there are no course prerequisites for CIS2010, you are responsible for having the computing prerequisite skills listed. They will not be taught in class. Detailed descriptions of the computer skills can be found in the course catalog.

CSP 1: Basic Micro computing Skills

CSP 2: Basic Micro computing Spreadsheet Skills

CSP 7: Basic Internet Usage

### **Description and Learning Objectives:**

Upon successful completion of the course students will:

1. Implement and use personal, local and cloud based digital applications and develop the ability to explore applications independently.
2. Demonstrate basic programming logic portable to different software environments and business application development.
3. Apply data management tools to organize data hierarchies, establish relationships, and scrutinize data quality needed for information processing and analysis.
4. Evaluate characteristics and applications of structured and unstructured data.
5. Apply programming logic and analytical tools for data mining and visualization.
6. Analyze how enterprise information systems are applied to automate and innovate business processes and operation.
7. Identify opportunities for transforming long standing business practices.
8. Analyze how to leverage digital technologies for transforming communication, coordination, collaboration, problem solving, and decision making.
9. Demonstrate knowledge and skills to manage and ensure confidentiality, integrity and availability of digital assets.
10. Evaluate how digitization creates new opportunities for innovation while simultaneously safeguarding against new environmental, ethical, security and privacy risks.

---

<sup>1</sup> Assumptions: 1) technology will be in the hands of students, 2) real-time instruction (including face-to-face for large sections) will be employed for developing competency with the technologies, 3) the CIS dept. may adjust to different tools/technologies as tools, vendor relationships and computing devices in the hands of students evolve over time. This syllabus is not a commitment to use specific tools when developing tacit knowledge associated with these learning objectives.

# BRIGHTSPACE/D2L Proposed Course Template

## CIS 2010-001 Introduction To Information Systems

### COURSE INFORMATION Show All

- Course Description —
- Instructor Information +
- Course Syllabus +
- Course FAQs +
- Course Discussions +
- Course Handouts +
- Course Assignments +
- Exams +

### COURSE SESSIONS Show All

- Week 1 - Completion Date 6/16/16** —
  - Complete iCollege Policy Quiz
  - Read Course Syllabus
  - Read Course FAQs
  - Run the iCollege System Checker
  - Complete Course Overview Quiz
  - Read Information Systems Textbook - Chapter 1
  - View Information Systems Textbook - Chapter 1
  - Complete Vocabulary Matching - Chapter 1
  - Read & Reply to Chapter 1 Discussion
- Watch: Chapter 1 Lecture Download: Right Click, and Save As
- [HTML](#) [PDF](#)
- Week 2 - Completion Date: 6/23/17 +
- Week 3 - Completion Date: 6/30/17 +
- Week 4 - Completion Date: 07/07/17 +
- Week 5 - Completion Date: 07/14/17 +
- Week 6 - Completion Date: 07/21/17 +
- Week 7 - Completion Date: 07/28/17 +

### WEEKLY POLL

Do you think hacking of the DNC by the Russians effected the outcome of the presidential election?

Yes

No

[View results](#) [Vote Now](#)

### TECHNOLOGY TWITTER FEED

**InformationWeek** @InformationWeek

Round out your knowledge to help your #analytics project succeed. Hit the #library. [ubm.io/2h50u84](http://ubm.io/2h50u84) @AllAnalytics



09 Dec

Tweets by @CIOMagazine

**CIO Magazine** @CIOMagazine

# Proposed Creative Common License Information Systems Textbook



## INFORMATION SYSTEMS: A MANAGER'S GUIDE TO HARNESS TECHNOLOGY

*Information Systems: A Manager's Guide to Harnessing Technology* is intended for use in undergraduate and/or graduate courses in Management Information Systems and Information Technology.

READ

Download in the following formats:



### Table of Contents

Publisher Information  
About the Author  
Acknowledgments  
Dedication  
Preface

#### Chapter 1: Setting the Stage: Technology and the Modern Enterprise

1.1 Tech's Tectonic Shift: Radically Changing Business Landscapes  
1.2 It's Your Revolution  
1.3 Geek Up—Tech Is Everywhere and You'll Need It to Thrive  
1.4 The Pages Ahead

#### Chapter 2: Strategy and Technology: Concepts and Frameworks for Understanding What Separates Winners from Losers

2.1 Introduction  
2.2 Powerful Resources  
2.3 Barriers to Entry, Technology, and Timing  
2.4 Key Framework: The Five Forces of Industry Competitive Advantage

#### Chapter 3: Zara: Fast Fashion from Savvy Systems

3.1 Introduction  
3.2 Don't Guess, Gather Data  
3.3 Moving Forward

#### Chapter 4: Netflix: The Making of an E-commerce Giant and the Uncertain Future of Atoms to Bits

4.1 Introduction  
4.2 Tech and Timing: Creating Killer Assets  
4.3 From Atoms to Bits: Opportunity or Threat?

#### Chapter 5: Moore's Law: Fast, Cheap Computing and What It Means for the Manager

5.1 Introduction  
5.2 The Death of Moore's Law?  
5.3 Bringing Brains Together: Supercomputing and Grid Computing  
5.4 E-waste: The Dark Side of Moore's Law

#### Chapter 6: Understanding Network Effects

6.1 Introduction  
6.2 Where's All That Value Come From?  
6.3 One-Sided or Two-Sided Markets?  
6.4 How Are These Markets Different?  
6.5 Competing When Network Effects Matter

#### Chapter 7: Peer Production, Social Media, and Web 2.0

7.1 Introduction  
7.2 Blogs  
7.3 Wikis  
7.4 Electronic Social Networks  
7.5 Twitter and the Rise of Microblogging  
7.6 Other Key Web 2.0 Terms and Concepts  
7.7 Prediction Markets and the Wisdom of Crowds  
7.8 Crowdsourcing  
7.9 Get SMART: The Social Media Awareness and Response Team

#### Chapter 8: Facebook: Building a Business from the Social Graph

8.1 Introduction  
8.2 What's the Big Deal?  
8.3 The Social Graph  
8.4 Facebook Feeds—Ebola for Data Flows  
8.5 Facebook as a Platform  
8.6 Advertising and Social Networks: A Work in Progress  
8.7 Privacy Peril: Beacon and the TOS Debacle  
8.8 Predators and Privacy  
8.9 One Graph to Rule Them All: Facebook Takes Over the Web  
8.10 Is Facebook Worth It?

#### Chapter 9: Understanding Software: A Primer for Managers

9.1 Introduction  
9.2 Operating Systems  
9.3 Application Software  
9.4 Distributed Computing  
9.5 Writing Software  
9.6 Total Cost of Ownership (TCO): Tech Costs Go Way beyond the Price Tag

#### Chapter 10: Software in Flux: Partly Cloudy and Sometimes Free

10.1 Introduction  
10.2 Open Source  
10.3 Why Open Source?  
10.4 Examples of Open Source Software  
10.5 Why Give It Away? The Business of Open Source  
10.6 Cloud Computing: Hype or Hope?  
10.7 The Software Cloud: Why Buy When You Can Rent?  
10.8 SaaS: Not without Risks  
10.9 The Hardware Cloud: Utility Computing and Its Cousins

10.10 Clouds and Tech Industry Impact  
10.11 Virtualization: Software That Makes One Computer Act Like Many  
10.12 Make, Buy, or Rent

#### Chapter 11: The Data Asset: Databases, Business Intelligence, and Competitive Advantage

11.1 Introduction  
11.2 Data, Information, and Knowledge  
11.3 Where Does Data Come From?  
11.4 Data Rich, Information Poor  
11.5 Data Warehouses and Data Marts  
11.6 The Business Intelligence Toolkit  
11.7 Data Asset in Action: Technology and the Rise of Wal-Mart  
11.8 Data Asset in Action: Harrah's Solid Gold CRM for the Service Sector

#### Chapter 12: A Manager's Guide to the Internet and Telecommunications

12.1 Introduction  
12.2 Internet 101: Understanding How the Internet Works  
12.3 Getting Where You're Going  
12.4 Last Mile: Faster Speed, Broader Access

#### Chapter 13: Information Security: Barbarians at the Gateway (and Just About Everywhere Else)

13.1 Introduction  
13.2 Why Is This Happening? Who Is Doing It? And What's Their Motivation?  
13.3 Where Are Vulnerabilities? Understanding the Weaknesses  
13.4 Taking Action

#### Chapter 14: Google: Search, Online Advertising, and Beyond

14.1 Introduction  
14.2 Understanding Search  
14.3 Understanding the Increase in Online Ad Spending  
14.4 Search Advertising  
14.5 Ad Networks—Distribution beyond Search  
14.6 More Ad Formats and Payment Schemes  
14.7 Customer Profiling and Behavioral Targeting  
14.8 Profiling and Privacy  
14.9 Search Engines, Ad Networks, and Fraud  
14.10 The Battle Unfolds

# Proposed DataCamp Lessons On "R"



## Introduction to R FREE

In this introduction to R, you will master the basics of this beautiful open source language, inc... [Learn More](#)

Start Course



## Importing Data in R (Part 1)

Importing data into R to start your analyses: it should be the easiest step. Unfortunately, this ... [Learn More](#)

Start Course



## Cleaning Data in R

It's commonly said that data scientists spend 80% of their time cleaning and manipulating data an... [Learn More](#)

Start Course



## Writing Functions in R

Functions are a fundamental building block of the R language. You've probably used dozens (or eve... [Learn More](#)

Start Course



## Importing Data in R (Part 2)

In this second course on importing data in R, you will take a deeper dive into the wide range of ... [Learn More](#)

Start Course



## Importing & Cleaning Data in R: Case Studies

Running exciting analyses on interesting datasets is the dream of every data scientist. But first... [Learn More](#)

Start Course



# Proposed Lynda.Com Tutorials



## **Statistics with Excel Part One** with Joseph Schmuller

Learn statistics. Professor Joseph Schmuller teaches the fundamentals of descriptive statistics and inferential statistics using Microsoft Excel.

3h 45m Appropriate for all Views 383,254 Sep 27, 2016



## **Statistics with Excel Part Two** with Joseph Schmuller

Learn how to use statistics concepts and tools (including functions, 3D maps, and ANOVA) to perform data analysis in Microsoft Excel.

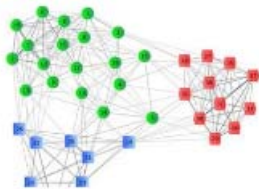
1h 59m Beginner Views 38,926 Jun 02, 2016



## **Data Modeling with Excel Power Pivot** with Ron Davis

Explore all the steps for data modeling with Excel's Power Pivot plugin—adding data sources, setting up relationships, and adding hierarchies—and discover the power of DAX expressions.

1h 15m Intermediate Views 112,535 Nov 18, 2014



## **Excel Data-Mining Fundamentals** with Ron Davis

Learn how to use Excel and Excel SQL Server Analysis Services to perform basic data mining and analysis.

1h 28m Intermediate Views 143,374 Nov 14, 2014



## **R for Excel Users** with Conrad Carlberg

Update your data science skills by learning R. Learn how common data analysis and statistics operations are run in Excel vs. R and how to move data back and forth between each program.

1h 26m Intermediate Views 36,957 Aug 08, 2016



## **Tableau 10 Essential Training** with Curt Frye

Learn everything you need to know to analyze and display data using Tableau Desktop—and make better, more data-driven decisions for your company.

4h 22m Intermediate Views 112,673 Oct 13, 2016

**Affordable Learning Georgia Textbook Transformation Grants  
Rounds Six, Seven, and Eight  
For Implementations beginning Fall Semester 2016  
Running Through Fall Semester 2017**

**Proposal Form and Narrative**

<b>Submitter Name</b>	Teresa Adams
<b>Submitter Title</b>	Associate Professor of Information Systems
<b>Submitter Email</b>	tadams40@gsu.edu
<b>Submitter Phone Number</b>	678-570-5769
<b>Submitter Campus Role</b>	Proposal Investigator/Team Lead
<b>Applicant Name</b>	Teresa Adams
<b>Applicant Email</b>	tadams40@gsu.edu
<b>Applicant Phone Number</b>	678-570-5769
<b>Primary Appointment Title</b>	Associate Professor of Information Systems
<b>Institution Name(s)</b>	Georgia State University – Perimeter College
<b>Team Members</b>	Illiad Connally
<b>Sponsor, Title, Department, Institution</b>	Dr. James Kahiga Chair, Department of Business, Georgia State University - Perimeter College

<b>Proposal Title</b>	ALG – CIS 2010				
<b>Course Names, Course Numbers and Semesters Offered</b>	<p><b>CIS 2010 (Formerly BISM 2601) Introduction to Information Systems</b></p> <p>CIS 2010 is offered every semester including Fall, Spring and Summer at both Perimeter College and Georgia State University across six different campuses.</p> <p>During the 2015-2016 academic year, Perimeter College offered approximately 24 sections of CIS 2010 during the Fall and Spring semester. Approximately 8 sections of CIS 2010 were offered by Perimeter College during the summer semester. The average enrollment per class was 23 students. CIS 2010 courses at Perimeter College are offered on-line and on-campus. On-campus sections of the CIS 2010 are taught in a computer classroom where students have ready access to computers during class.</p> <p>During the 2015-2016 academic year, Georgia State University offered approximately 25 sections of CIS 2010 during the Fall and Spring semester. Approximately 8 sections of CIS 2010 were offered by Perimeter College during the summer semester. The average enrollment per class was 30 students. Currently, CIS 2010 courses at Georgia State University are offered in a lecture classroom without computer access for students.</p>				
<b>Final Semester of Instruction</b>	Fall 2017				
<b>Average Number of Students Per Course Section</b>	23 student at PC	<b>Number of Course Sections Affected by Implementation in Academic Year</b>	56 sections at PC	<b>Total Number of Students Affected by Implementation in Academic Year</b>	1,288 at PC
	30 student at GSU		58 sections at GSU		1,740 at GSU
<b>Award Category (pick one)</b>	<input type="checkbox"/> No-or-Low-Cost-to-Students Learning Materials <input type="checkbox"/> OpenStax Textbooks <input type="checkbox"/> Interactive Course-Authoring Tools and Software <input checked="" type="checkbox"/> Specific Top 100 Undergraduate Courses				
<b>List the original course materials for students (including title,</b>	<p><b>Perimeter College currently required materials for CIS 2010 (formerly BISM 2601):</b></p> <ul style="list-style-type: none"> <li>• Business Driven Information Systems; by Baltzan (w/SimNet for Excel)</li> </ul>				

<p><b>whether optional or required, &amp; cost for each item)</b></p>	<ul style="list-style-type: none"> <li>• ISBN: <b>9781259975066</b> (custom bundle)</li> <li>• COST: <b>\$115.50</b></li> <li>• MANDATORY: <b>YES</b></li> <li>• TEXTBOOK LINK:  <a href="http://www.bkstr.com/ProductDisplay?urlRequestType=Base&amp;catalogId=10001&amp;categoryId=9604&amp;productId=75616567&amp;errorViewName=ProductDisplayErrorView&amp;langId=-1&amp;top_category=&amp;parent_category_rn=&amp;storeId=10292">http://www.bkstr.com/ProductDisplay?urlRequestType=Base&amp;catalogId=10001&amp;categoryId=9604&amp;productId=75616567&amp;errorViewName=ProductDisplayErrorView&amp;langId=-1&amp;top_category=&amp;parent_category_rn=&amp;storeId=10292</a> </li> </ul> <p><b>Georgia State University currently required materials for CIS 2010:</b></p> <ul style="list-style-type: none"> <li>• Intro to Information Systems by Rainer (w/ WileyPLUS Learning Card Set)</li> <li>• ISBN: <b>9781119231769</b></li> <li>• COST: <b>\$169.00</b></li> <li>• MANDATORY: <b>YES</b></li> <li>• TEXTBOOK LINK:  <a href="http://www.bkstr.com/webapp/wcs/stores/servlet/CourseMaterialsResultsView?catalogId=10001&amp;categoryId=9604&amp;storeId=10489&amp;langId=-1&amp;campusId=263&amp;programId=403&amp;termId=100045097&amp;divisionDisplayName=%20&amp;departmentDisplayName=CIS&amp;courseDisplayName=2010&amp;sectionDisplayName=14032&amp;demoKey=d&amp;purpose=browse">http://www.bkstr.com/webapp/wcs/stores/servlet/CourseMaterialsResultsView?catalogId=10001&amp;categoryId=9604&amp;storeId=10489&amp;langId=-1&amp;campusId=263&amp;programId=403&amp;termId=100045097&amp;divisionDisplayName=%20&amp;departmentDisplayName=CIS&amp;courseDisplayName=2010&amp;sectionDisplayName=14032&amp;demoKey=d&amp;purpose=browse</a> </li> </ul>
<p><b>Requested Amount of Funding</b></p>	<p>\$10,800</p>
<p><b>Original Per Student Cost</b></p>	<p>\$115 for Perimeter College Students \$169 for Georgia State University Students</p>
<p><b>Post-Proposal Projected Per Student Cost</b></p>	<p>\$35 for Perimeter College &amp; Georgia State University Students</p>
<p><b>Projected Per Student Savings</b></p>	<p>\$80 for Perimeter College Students \$134 for Georgia State University Students</p>
<p><b>Projected Total Annual Student Savings</b></p>	<p>\$103 for Perimeter College Students \$233 for Georgia State University Students</p>



<p><b>Creation and Hosting Platforms Used</b></p>	<p><b>Course Delivery:</b></p> <ul style="list-style-type: none"> <li>• <b>Brightspace/D2L:</b> The state-wide adopted learning management system, Brightspace (formerly D2L) will serve had the main delivery platform for CIS 2010. Brightspace provides a common interface familiar to many students. A course interface within Brightspace can be easily customized via widgets to integrate a variety of publisher and vendor applications.</li> </ul> <p><b>Course Content:</b></p> <ul style="list-style-type: none"> <li>• <b>Creative Commons License (CCL) Textbook:</b> Adoption and adaptation of a "creative common license" textbook will be used as the basis for disseminating Information System concept and theory. CCL materials are free and provide the greatest latitude for using the material. Materials licensed as CCL may be used in any way a user likes including to create new works as long as the material originated by the creator is properly credited. This type of license is recommended for dissemination and use of licensed materials to large audiences.</li> <li>• <b>Online Data Analytics Courses:</b> <p><b>DataCamp.Com:</b> The DataCamp.com offers a unique interactive platform for teaching data science and analytic tools via a browser environment. The website features several best-in-class courses on topics identified for inclusion in the "newly revised" CIS 2010 course such as R programming. DataCamp courses are 100% experiential and extremely effective. In addition to ready-made courses, DataCamp offers course authoring tools that allow instructors to create and/or modify their own interactive technology skills courses. Additionally, instructors can integrated student grades into D2L as DataCamp provides integration with learning management systems such as D2L. DataCamp is available to students initially for free followed by a nominal fee for as low as \$9 per month. The monthly fee is largely optional and includes the ability to earn marketable certificates in a variety of data science courses.</p> <p><b>Lynda.Com Courses:</b> Lynda.com, the online video tutorial site, is available at no charge to Georgia State University and Perimeter College students, faculty, and staff. Lynda.com offers tutorials on analytic tools such as Excel and Tableau which are topics that have been incorporated into the newly modified CIS 2010. Lynda.Com lessons will be analyzed and incorporated into D2L assignments through playlists and customized widgets.</p> </li> </ul>
---	---

## NARRATIVE

### 1.1 PROJECT GOALS

The "Introduction to Information Systems" course is an undergraduate course required course for all business majors at both Perimeter College and Georgia State University. The course is known as CIS 2010 at Georgia State University and was formerly known as BISM 2601 at Perimeter College. As of Fall 2016, Perimeter College renamed BISM2601 to CIS 2010.

The objective of CIS 2010 is to familiarize students with information system theory. In addition, students have traditionally received rudimental exposure to the applications used in business including enterprise applications, spreadsheets and databases.

Upon the merger of Perimeter College with Georgia State University, the CIS discipline at both institutions were asked to come up with a cohesive course revision to CIS 2010 which entailed greater problem solving and data analytic skills. These new competencies are to be incorporated into all CIS 2010 courses by Fall of 2017 through the use of analytical applications such as Excel, Tableau and the R programming language.

The more "analytical approach" to CIS 2010 presents many challenges the biggest of which is a suitable textbook. At present, there is no one textbook that adequately addresses "Information Systems" concepts AND the analytical tools to be covered in the newly, revised CIS 2010 course (Excel, R Programming, Tableau).

Currently, CIS 2010 students are required an "Information Systems" concept textbook for 119 to \$169 which includes a "registration code" to the publisher's copyrighted tools and websites. Students unable to afford a new textbook and who's s professor require they access a publisher's tools often find themselves in an untenable financial position as used textbooks almost always lack a valid publisher registration code.

Given the "Information System" textbook costs well over a \$100, any attempt to bundle the concepts book with other suitable texts on Excel, Tableau or R programming would likely prove extremely cost prohibitive for students. Yet a complex topic such as the R programming requires well-delineated instruction in order to ensure student success.

Hence our primary goals is to compile high quality teaching materials from open-access and low-cost sources that meet the specified course outcomes. In so doing, other goals we wish to meet include:

- Provide low-cost learning materials to students in electronic and printable format.
- Ensure the pedagogy used aligns with the common course outline.
- Emphasize current technology through online resources and visualized media.
- Measure and compare student performance as to assess success of learning objectives.
- Emphasize hands-on experiences that provide students with practical analytical skills and knowledge

## 1.2 STATEMENT OF TRANSFORMATION

A comprehensive "Introduction to Information Systems" course will be developed to provide students with an experiential understanding of Information Systems and data analytics in business. The content will be delivered via Brightspace/D2L utilizing open content enhanced by interactive, hands-on assignments, engaging discussions and integrated assessments. These elements will be designed to enhance learning outcomes as well as the student learning experience.

Stakeholders include students, instructors and businesses.

Students will benefit the most from this project as they will receive an up-to-date and in-depth understanding of the emerging technology trends in business. They will also achieve practical, hands-on skills utilizing data analytics tools commonly used in business.

Instructors teaching the Introduction to Information Systems course will also benefit by having access to comprehensive content and ready-to-teach materials.

Businesses and society will also reap the benefits of students able to thinking critically and analytically.

## 1.3 TRANSFORMATION ACTION PLAN

- Review CCL textbook materials and choose the relevant, high quality content
- Review Excel, R programming and Tableau tutorials and online courses for relevancy & quality
- Organize content for each of the course outcomes into course modules
- Develop course modules in Brightspace/D2L
- Integrate external content into Brightspace/D2L
- Develop presentation, assignments, test banks, and exercises into D2L course

## 1.4 QUANTITATIVE AND QUALITATIVE MEASURES

- A study analyzing student performance on graded course content including assignments, quizzes, and exams will be conducted and compared to previous course sections as well as sections not utilizing the integrated version of the course.
- An anonymous survey of students perceived learning experience will be conducted via an online survey. Questions will be composed to analyze and validate the learning satisfaction and effectiveness of the course. The survey outcomes will be compared to surveys given to participant in sections not piloting the integrated course.
- Faculty will also be asked complete a survey regarding the ease of use, accuracy, quality and appropriateness of the material.

## 1.5 TIMELINE

- Spring Semester 2017
  1. Adopt CCL textbook
  2. Adapt & Modify CCL textbook
  3. Adapt DataCamp course modules
  4. Create Brightspace/D2L Course Template
- Summer Semester 2017
  1. Train Instructors
  2. Pilot Course during Summer Sections
  3. Assess Course Outcomes
  4. Review & Modify Course Content
- Fall Semester 2017
  1. Final Course Rollout & Delivery

## 1.6 BUDGET

### Part A: Course Overload Compensation - \$10,000

The overload compensation is for the time and effort spent on developing and redesigning the transformed courses utilizing Brightspace/D2L, CCL adopted textbook, DataCamp courses and Lynda.com courses.

- Teresa Adams, Project Lead and Faculty Subject Matter Expert: \$5,000 for overload compensation in 2016-2017 academic year.
- Illiad Connally, Faculty Subject Matter Expert: \$5,000 for overload compensation in 2016-2017 academic year.

### Part B: Training/ Travel - \$800

- ALG Project Training travel for two team members, Teresa Adams and IlliadConnally to meet and train with DataCamp Developers.

**Total Budget: \$10,800**

## 1.7 SUSTAINABILITY PLAN

The sustainability plan is to develop the course structure and content for CIS 2010 during the Spring of 2017. The course will be piloted in two on-line sections as well as two on-campus sections of CIS 2010 during the Summer semester of 2017. Modifications to the course shall be implemented prior to Fall Semester 2017.

## 1.8 REFERENCES & ATTACHMENTS

- *Department Chair Letter of Support*
- *New CIS2010 Course Content*
- *Proposed Brightspace/D2L Template*
- *Proposed Information Systems CCL Textbook*
- *Proposed Lynda.Com Modules*

555 North Indian Creek Drive  
Clarkston, GA 30021

Phone 678-212-7500  
Fax 678-212-7505  
Web perimeter.gsu.edu



December 10, 2016

Dear Affordable Learning Grant Committee:

I am writing in support of a grant proposal for the ALG Textbook Transformation Grant. The grant is being submitted to develop course content for the course: CIS 2010 Introduction to Information System. The principle investigator and key personnel are working on a no-cost textbook for the course and wish to further their work with refined content and conversion to the iCollege/D2L Learning Management System. The grant amount of \$10,800 will be utilized for course release time requested by each person and expenses related to the content development, the licensing and the purchase of media content.

Thank you for reviewing the enclosed grant. My colleagues and I look forward to working with you.

Sincerely,

**M. J. Kahiga, Ph.D.**

Digitally signed by M. J. Kahiga, Ph.D.  
DN: cn=M. J. Kahiga, Ph.D., o=Perimeter College, Georgia State  
University, ou=Chair, Business/Health/Department,  
email=m.j.kahiga@perimeter.edu, c=US  
Date: 2016.12.10 11:28:38 -0500

M. James Kahiga, Ph.D.  
Department Chair  
Business/ Kinesiology & Health/Sign Language Interpreter Training/Dental Hygiene

# CIS 2010

## Introduction to Digital Innovation

### **Focus and Motivation:**

This course develops the digital competencies necessary to apply the power of emerging digital technologies for business and society. The course provides 1) a functional understanding of digital technologies, 2) essentials of programming logic, 3) data management, analysis, visualization and interpretation skills, and 4) the ability to combine and apply digital technologies for desired business outcomes and societal impacts.

Digital technologies are undergoing rapid, concurrent and complementary developments affecting software, hardware and internet access technologies. In addition, computer tools and techniques favored by business change rapidly as innovation shifts from functional area systems to eBusiness and networked communities, to social computing, analytics and Internet of Things. This course will engage students in spreadsheets, statistical computing environments and visualization tools for hands-on learning of digital building blocks that innovators use when addressing business problems<sup>1</sup>.

### **Computer Skills Prerequisites**

Although there are no course prerequisites for CIS2010, you are responsible for having the computing prerequisite skills listed. They will not be taught in class. Detailed descriptions of the computer skills can be found in the course catalog.

CSP 1: Basic Micro computing Skills

CSP 2: Basic Micro computing Spreadsheet Skills

CSP 7: Basic Internet Usage

### **Description and Learning Objectives:**

Upon successful completion of the course students will:

1. Implement and use personal, local and cloud based digital applications and develop the ability to explore applications independently.
2. Demonstrate basic programming logic portable to different software environments and business application development.
3. Apply data management tools to organize data hierarchies, establish relationships, and scrutinize data quality needed for information processing and analysis.
4. Evaluate characteristics and applications of structured and unstructured data.
5. Apply programming logic and analytical tools for data mining and visualization.
6. Analyze how enterprise information systems are applied to automate and innovate business processes and operation.
7. Identify opportunities for transforming long standing business practices.
8. Analyze how to leverage digital technologies for transforming communication, coordination, collaboration, problem solving, and decision making.
9. Demonstrate knowledge and skills to manage and ensure confidentiality, integrity and availability of digital assets.
10. Evaluate how digitization creates new opportunities for innovation while simultaneously safeguarding against new environmental, ethical, security and privacy risks.

---

<sup>1</sup> Assumptions: 1) technology will be in the hands of students, 2) real-time instruction (including face-to-face for large sections) will be employed for developing competency with the technologies, 3) the CIS dept. may adjust to different tools/technologies as tools, vendor relationships and computing devices in the hands of students evolve over time. This syllabus is not a commitment to use specific tools when developing tacit knowledge associated with these learning objectives.

# BRIGHTSPACE/D2L Proposed Course Template

## CIS 2010-001 Introduction To Information Systems

### COURSE INFORMATION Show All

- Course Description —
- Instructor Information +
- Course Syllabus +
- Course FAQs +
- Course Discussions +
- Course Handouts +
- Course Assignments +
- Exams +

### COURSE SESSIONS Show All

- Week 1 - Completion Date 6/16/16** —
  - Complete iCollege Policy Quiz
  - Read Course Syllabus
  - Read Course FAQs
  - Run the iCollege System Checker
  - Complete Course Overview Quiz
  - Read Information Systems Textbook - Chapter 1
  - View Information Systems Textbook - Chapter 1
  - Complete Vocabulary Matching - Chapter 1
  - Read & Reply to Chapter 1 Discussion
- Watch: Chapter 1 Lecture Download: Right Click, and Save As
- [HTML](#) [PDF](#)
- Week 2 - Completion Date: 6/23/17 +
- Week 3 - Completion Date: 6/30/17 +
- Week 4 - Completion Date: 07/07/17 +
- Week 5 - Completion Date: 07/14/17 +
- Week 6 - Completion Date: 07/21/17 +
- Week 7 - Completion Date: 07/28/17 +

### WEEKLY POLL

Do you think hacking of the DNC by the Russians effected the outcome of the presidential election?

Yes

No

[View results](#) [Vote Now](#)

### TECHNOLOGY TWITTER FEED

**InformationWeek** @InformationWeek

Round out your knowledge to help your #analytics project succeed. Hit the #library. [ubm.io/2h50u84](http://ubm.io/2h50u84) @AllAnalytics



09 Dec

#### Tweets by @CIOMagazine

**CIO Magazine** @CIOMagazine

# Proposed Creative Common License Information Systems Textbook



## INFORMATION SYSTEMS: A MANAGER'S GUIDE TO HARNESS TECHNOLOGY

*Information Systems: A Manager's Guide to Harnessing Technology* is intended for use in undergraduate and/or graduate courses in Management Information Systems and Information Technology.

READ

Download in the following formats:



### Table of Contents

<b>Publisher Information</b>	7.1 Introduction	10.10 Clouds and Tech Industry Impact
<b>About the Author</b>	7.2 Blogs	10.11 Virtualization- Software That Makes One Computer Act Like Many
<b>Acknowledgments</b>	7.3 Wikis	10.12 Make, Buy, or Rent
<b>Dedication</b>	7.4 Electronic Social Networks	
<b>Preface</b>	7.5 Twitter and the Rise of Microblogging	
	7.6 Other Key Web 2.0 Terms and Concepts	
<b>Chapter 1: Setting the Stage: Technology and the Modern Enterprise</b>	7.7 Prediction Markets and the Wisdom of Crowds	<b>Chapter 11: The Data Asset: Databases, Business Intelligence, and Competitive Advantage</b>
1.1 Tech's Tectonic Shift: Radically Changing Business Landscapes	7.8 Crowdsourcing	11.1 Introduction
1.2 It's Your Revolution	7.9 Get SMART: The Social Media Awareness and Response Team	11.2 Data, Information, and Knowledge
1.3 Geek Up—Tech Is Everywhere and You'll Need It to Thrive		11.3 Where Does Data Come From?
1.4 The Pages Ahead		11.4 Data Rich, Information Poor
	<b>Chapter 8: Facebook: Building a Business from the Social Graph</b>	11.5 Data Warehouses and Data Marts
<b>Chapter 2: Strategy and Technology: Concepts and Frameworks for Understanding What Separates Winners from Losers</b>	8.1 Introduction	11.6 The Business Intelligence Toolkit
2.1 Introduction	8.2 What's the Big Deal?	11.7 Data Asset in Action- Technology and the Rise of Wal-Mart
2.2 Powerful Resources	8.3 The Social Graph	11.8 Data Asset in Action- Harrah's Solid Gold CRM for the Service Sector
2.3 Barriers to Entry, Technology, and Timing	8.4 Facebook Feeds—Ebola for Data Flows	
2.4 Key Framework: The Five Forces of Industry Competitive Advantage	8.5 Facebook as a Platform	<b>Chapter 12: A Manager's Guide to the Internet and Telecommunications</b>
	8.6 Advertising and Social Networks: A Work in Progress	12.1 Introduction
<b>Chapter 3: Zara: Fast Fashion from Savvy Systems</b>	8.7 Privacy Peril: Beacon and the TOS Debacle	12.2 Internet 101: Understanding How the Internet Works
3.1 Introduction	8.8 Predators and Privacy	12.3 Getting Where You're Going
3.2 Don't Guess, Gather Data	8.9 One Graph to Rule Them All: Facebook Takes Over the Web	12.4 Last Mile- Faster Speed, Broader Access
3.3 Moving Forward	8.10 Is Facebook Worth It?	
	<b>Chapter 9: Understanding Software- A Primer for Managers</b>	<b>Chapter 13: Information Security: Barbarians at the Gateway (and Just About Everywhere Else)</b>
<b>Chapter 4: Netflix: The Making of an E-commerce Giant and the Uncertain Future of Atoms to Bits</b>	9.1 Introduction	13.1 Introduction
4.1 Introduction	9.2 Operating Systems	13.2 Why Is This Happening? Who Is Doing It? And What's Their Motivation?
4.2 Tech and Timing: Creating Killer Assets	9.3 Application Software	13.3 Where Are Vulnerabilities? Understanding the Weaknesses
4.3 From Atoms to Bits- Opportunity or Threat?	9.4 Distributed Computing	13.4 Taking Action
	9.5 Writing Software	
<b>Chapter 5: Moore's Law: Fast, Cheap Computing and What It Means for the Manager</b>	9.6 Total Cost of Ownership (TCO)- Tech Costs Go Way beyond the Price Tag	<b>Chapter 14: Google: Search, Online Advertising, and Beyond</b>
5.1 Introduction		14.1 Introduction
5.2 The Death of Moore's Law?	<b>Chapter 10: Software in Flux: Partly Cloudy and Sometimes Free</b>	14.2 Understanding Search
5.3 Bringing Brains Together- Supercomputing and Grid Computing	10.1 Introduction	14.3 Understanding the Increase in Online Ad Spending
5.4 E-waste- The Dark Side of Moore's Law	10.2 Open Source	14.4 Search Advertising
	10.3 Why Open Source?	14.5 Ad Networks—Distribution beyond Search
<b>Chapter 6: Understanding Network Effects</b>	10.4 Examples of Open Source Software	14.6 More Ad Formats and Payment Schemes
6.1 Introduction	10.5 Why Give It Away? The Business of Open Source	14.7 Customer Profiling and Behavioral Targeting
6.2 Where's All That Value Come From?	10.6 Cloud Computing: Hype or Hope?	14.8 Profiling and Privacy
6.3 One-Sided or Two-Sided Markets?	10.7 The Software Cloud- Why Buy When You Can Rent?	14.9 Search Engines, Ad Networks, and Fraud
6.4 How Are These Markets Different?	10.8 SaaS- Not without Risks	14.10 The Battle Unfolds
6.5 Competing When Network Effects Matter	10.9 The Hardware Cloud- Utility Computing and Its Cousins	
	<b>Chapter 7: Peer Production, Social Media, and Web 2.0</b>	



# Proposed DataCamp Lessons On "R"



## Introduction to R FREE

In this introduction to R, you will master the basics of this beautiful open source language, inc... [Learn More](#)

Start Course



## Importing Data in R (Part 1)

Importing data into R to start your analyses: it should be the easiest step. Unfortunately, this ... [Learn More](#)

Start Course



## Cleaning Data in R

It's commonly said that data scientists spend 80% of their time cleaning and manipulating data an... [Learn More](#)

Start Course



## Writing Functions in R

Functions are a fundamental building block of the R language. You've probably used dozens (or eve... [Learn More](#)

Start Course



## Importing Data in R (Part 2)

In this second course on importing data in R, you will take a deeper dive into the wide range of ... [Learn More](#)

Start Course



## Importing & Cleaning Data in R: Case Studies

Running exciting analyses on interesting datasets is the dream of every data scientist. But first... [Learn More](#)

Start Course



# Proposed Lynda.Com Tutorials



## **Statistics with Excel Part One** with Joseph Schmuller

Learn statistics. Professor Joseph Schmuller teaches the fundamentals of descriptive statistics and inferential statistics using Microsoft Excel.

3h 45m Appropriate for all Views 383,254 Sep 27, 2016



## **Statistics with Excel Part Two** with Joseph Schmuller

Learn how to use statistics concepts and tools (including functions, 3D maps, and ANOVA) to perform data analysis in Microsoft Excel.

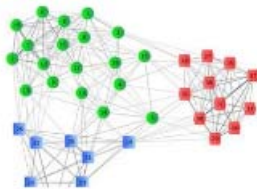
1h 59m Beginner Views 38,926 Jun 02, 2016



## **Data Modeling with Excel Power Pivot** with Ron Davis

Explore all the steps for data modeling with Excel's Power Pivot plugin—adding data sources, setting up relationships, and adding hierarchies—and discover the power of DAX expressions.

1h 15m Intermediate Views 112,535 Nov 18, 2014



## **Excel Data-Mining Fundamentals** with Ron Davis

Learn how to use Excel and Excel SQL Server Analysis Services to perform basic data mining and analysis.

1h 28m Intermediate Views 143,374 Nov 14, 2014



## **R for Excel Users** with Conrad Carlberg

Update your data science skills by learning R. Learn how common data analysis and statistics operations are run in Excel vs. R and how to move data back and forth between each program.

1h 26m Intermediate Views 36,957 Aug 08, 2016



## **Tableau 10 Essential Training** with Curt Frye

Learn everything you need to know to analyze and display data using Tableau Desktop—and make better, more data-driven decisions for your company.

4h 22m Beginner Views 112,673 Oct 13, 2016