American Public University System

The Ultimate Advantage is an Educated Mind

School: Business
Course Number: 450
Course Name: Analytics III
Credit Hours: 3
Length of Course: 8 Weeks
Prerequisite: BUSN250 and BUSN350

Please see the Lessons area in the classroom for additional course specific information

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Course Description (Catalog)

This course examines the use of business analytics which includes Business Intelligence technologies for organizational decisions. The course will emphasize the tools and methods focusing on Enterprise Analytics with the use of current business model technologies to find data solutions for production systems. After completing this course, students are expected to develop approaches and solutions to applying analytics at production scale optimizing performance, processes, and decisions. Students will develop models and work in teams to apply real-world scenarios.

Course Scope

This course is designed for students majoring in a business administration or management field of study. The emphasis of the course will be on the use of data and predictive analytics, business intelligence, customer data integration, performance indicators as well as analytical applications. Students are expected to extrapolate the information from course materials, research, and class collaboration. Students will gain and understanding of multiple analytic models with Microsoft Excel and the use of worksheets and formulas. Students are expected to have basic computer and critical thinking skills.
Course Materials

Required Course Textbooks -

Enterprise Analytics: Optimize Performance, Process, and Decisions Through Big Data
Author(s): International Institute for Analytics; Thomas H. Davenport

The VitalSource e-book is provided via the APUS Bookstore. Please visit http://apus.libguides.com/bookstore for more information.

Web Sites

In addition to the required course texts, the following public domain web sites are useful. Please abide by the university’s academic honesty policy when using Internet sources as well. Note web site addresses are subject to change.

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<tr>
<td>American Psychological Association (APA) Style</td>
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<td>Website</td>
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<td>Purdue Online Writing Lab</td>
<td><a href="http://owl.english.purdue.edu/owl/resource/560/01/">http://owl.english.purdue.edu/owl/resource/560/01/</a></td>
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<tr>
<td>YouTube Video on Formatting an APA Style Paper</td>
<td><a href="http://www.youtube.com/watch?v=9pbUoNa5tyY&amp;feature=related">http://www.youtube.com/watch?v=9pbUoNa5tyY&amp;feature=related</a></td>
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<tr>
<td>Regression Examples</td>
<td><a href="http://www.stat.ufl.edu/~winner/Regression_Examples.html">http://www.stat.ufl.edu/~winner/Regression_Examples.html</a></td>
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<td>YouTube Videos on Microsoft Excel for Beginners</td>
<td><a href="http://www.youtube.com/playlist?list=PL6D44A8F7E77DB825">http://www.youtube.com/playlist?list=PL6D44A8F7E77DB825</a></td>
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<tr>
<td>Business Analytics Techniques</td>
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Course Objectives
STUDENT WARNING: This course syllabus is from a previous semester archive and serves only as a preparatory reference. Please use this syllabus as a reference only until the professor opens the classroom and you have access to the updated course syllabus. Please do NOT purchase any books or start any work based on this syllabus; this syllabus may NOT be the one that your individual instructor uses for a course that has not yet started. If you need to verify course textbooks, please refer to the online course description through your student portal. This syllabus is proprietary material of APUS.

After successfully completing this course, you will be able to

**CO-1:** Analyze how historical trends in data utilization within organizations are impacting organizational decision-making.

**CO-2:** Organize data into quantifiable or usable spreadsheet format.

**CO-3:** Apply the basic principles of probability to business decision-making.

**CO-4:** Differentiate how various functions within the organization use data and statistical methods (e.g. marketing vs. supply chain management vs. human resources).

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**CO-5:** Evaluate appropriate uses for sampling in business decision-making.

**CO-6:** Assess the efficiency and efficacy of data-sharing protocols and infrastructure within the workplace setting.

**CO-7:** Evaluate the appropriate level of reporting when given varying statistical outputs and stakeholders.

**CO-8:** Distinguish how various roles within the organization will influence the need for data for, and use information in, the decision-making process.
| Title: Business Intelligence | organizations are impacting organizational decision-making.  
CO#2: Organize data into quantifiable or usable spreadsheet format.  
CO#3: Apply the basic principles of probability to business decision-making. |
|-----------------------------|---------------------------------------------------------------------|
| Lesson 2: Title Return On Investment | CO#1: Analyze how historical trends in data utilization within organizations are impacting organizational decision-making.  
CO#2: Organize data into quantifiable or usable spreadsheet format.  
CO#3: Apply the basic principles of probability to business decision-making.  
CO#4: Differentiate how various functions within the organization use data and statistical methods (e.g. marketing vs. supply chain management vs. human resources). |
| Lesson 3: Title Web Data Analytics | CO#3: Apply the basic principles of probability to business decision-making.  
CO#4: Differentiate how various functions within the organization use data and statistical methods (e.g. marketing vs. supply chain management vs. human resources).  
CO#5: Evaluate appropriate uses for sampling in business decision-making.  
CO#6: Assess the efficiency and efficacy of data-sharing protocols and infrastructure within the workplace setting. |
| Lesson 4: Title Analytics of Online Engagement | CO#6: Assess the efficiency and efficacy of data-sharing protocols and infrastructure within the workplace setting.  
CO#7: Evaluate the appropriate level of reporting when given varying statistical outputs and stakeholders.  
CO#8: Distinguish how various roles within the organization will influence the need for data for, and use information in, the decision-making process. |
| Lesson 5: Title Customer Analytics | CO#3: Apply the basic principles of probability to business decision-making.  
CO#4: Differentiate how various functions within the organization use data and statistical methods (e.g. marketing vs. supply chain management vs. human resources).  
CO#5: Evaluate appropriate uses for sampling in business decision-making.  
CO#6: Assess the efficiency and efficacy of data-sharing protocols and infrastructure within the workplace setting. |
| Lesson 6: Title Technology Analytics | CO#6: Assess the efficiency and efficacy of data-sharing protocols and infrastructure within the workplace setting.  
CO#7: Evaluate the appropriate level of reporting when given varying statistical outputs and stakeholders.  
CO#8: Distinguish how various roles within the organization will influence the need for data for, and use information in, the decision-making process. |
| Lesson 7: Title Software and Predictive Analytics | CO#2: Organize data into quantifiable or usable spreadsheet format.  
CO#3: Apply the basic principles of probability to business decision-making. |
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| Lesson 8: | CO#4: Differentiate how various functions within the organization use data and statistical methods (e.g. marketing vs. supply chain management vs. human resources). |
| Changes in Analytics and Technology | CO#5: Evaluate appropriate uses for sampling in business decision-making. |
| | CO#6: Assess the efficiency and efficacy of data-sharing protocols and infrastructure within the workplace setting. |
| | CO#7: Evaluate the appropriate level of reporting when given varying statistical outputs and stakeholders. |

Course Delivery Method

This course delivered via distance learning will enable students to complete academic work in a flexible manner, completely online. Course materials and access to an online learning management system will be made available to each student. Online assignments are due by Sunday evening of the week as noted and include Forum questions (accomplished in groups through a threaded forum), examination, and individual assignments submitted for review by the Faculty Member). Assigned faculty will support the students throughout this eight-week course.

Policies

Please see the Student Handbook to reference all University policies. Quick links to frequently asked question about policies are listed below.

- Drop/Withdrawal Policy
- Plagiarism Policy
- Extension Process and Policy
- Disability Accommodations

Grading Scale

Please see the Student Handbook to reference the University’s grading scale.

Citation and Reference Style

Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.
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Late Assignments
Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment. As adults, students, and working professionals, I understand you must manage competing demands on your time. We all know that “life happens” but it is important to adhere as closely to the deadlines in the class as possible.

Should you need additional time to complete an assignment, please contact me before the due date so we can discuss the situation and determine an acceptable resolution. If arrangements are not made in advance, a late penalty of 10% will be assessed for any assignment submitted 1-7 days past the due date. Assignments will not be accepted after the 7th day. No work will be accepted past the final day of class.

Netiquette
Online universities promote the advancement of knowledge through positive and constructive debate – both inside and outside the classroom. Forums on the Internet, however, can occasionally degenerate into needless insults and “flaming.” Such activity and the loss of good manners are not acceptable in a university setting – basic academic rules of good behavior and proper “Netiquette” must persist. Remember that you are in a place for the rewards and excitement of learning which does not include descent to personal attacks or student attempts to stifle the Forum of others.

- Technology Limitations: While you should feel free to explore the full-range of creative composition in your formal papers, keep e-mail layouts simple. The Sakai classroom may not fully support MIME or HTML encoded messages, which means that bold face, italics, underlining, and a variety of color-coding or other visual effects will not translate in your e-mail messages.
- Humor Note: Despite the best of intentions, jokes and especially satire can easily get lost or taken seriously. If you feel the need for humor, you may wish to add “emoticons” to help alert your readers: ;-), : ), 😊

Disclaimer Statement
Course content may vary from the outline to meet the needs of this particular group.
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The Online Library is available to enrolled students and faculty from inside the electronic campus. This is your starting point for access to online books, subscription periodicals, and Web resources that are designed to support your classes and generally not available through search engines on the open Web. In addition, the Online Library provides access to special learning resources, which the University has contracted to assist with your studies. Questions can be directed to librarian@apus.edu.

- **Charles Town Library and Inter Library Loan:** The University maintains a special library with a limited number of supporting volumes, collection of our professors’ publication, and services to search and borrow research books and articles from other libraries.
- **Electronic Books:** You can use the online library to uncover and download over 50,000 titles, which have been scanned and made available in electronic format.
- **Electronic Journals:** The University provides access to over 12,000 journals, which are available in electronic form and only through limited subscription services.
- **Tutor.com:** AMU and APU Civilian & Coast Guard students are eligible for 10 free hours of tutoring provided by APUS. Tutor.com connects you with a professional tutor online 24/7 to provide help with assignments, studying, test prep, resume writing, and more. Tutor.com is tutoring the way it was meant to be. You get expert tutoring whenever you need help, and you work one-to-one with your tutor in your online classroom on your specific problem until it is done.
- **Disability Accommodations:** Students are encouraged email dsa@apus.edu to discuss potential academic accommodations and begin the review process.

The AMU/APU Library Guides provide access to collections of trusted sites on the Open Web and licensed resources on the Deep Web. The following are specially tailored for academic research at APUS:

- Program Portals contain topical and methodological resources to help launch general research in the degree program. To locate, search by department name, or navigate by school.
- Course Lib-Guides narrow the focus to relevant resources for the corresponding course. To locate, search by class code (e.g., SOCI111), or class name.

If a guide you need is not available yet, please email the APUS Library: librarian@apus.edu.

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**Turnitin.com**

Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it.
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for a grade. In some cases professors may require students to use Turnitin.com. This is automatically processed through the Assignments area of the course.