This course, SAS Programming II Business Analysis Applications (C748) covers 3 competencies and represents 4 competency units.

Introduction

Overview
This course prepares the student for the SAS Statistical Business Analyst for SAS 9 Certification exam (A00-240). Students will gain competency to conduct, interpret, and present complex statistical data analysis in the SAS platform.

Getting Started
Welcome to SAS Programming II Business Analysis Applications. This course contains all of the necessary reading materials, interactive learning activities, knowledge checks, and labs you will need to prepare for the certification exam provided by SAS.

For the best understanding of the course content, complete each module assigned. To help you track your progress, we suggest you follow the pacing guide identified at the beginning of the course. In addition, course mentors are available to answer any questions you have and to discuss the concepts of SAS Programming. Your competence will be demonstrated by the successful completion of the objective assessment certification exam provided by SAS.

Competencies
This course provides guidance to help you demonstrate the following 3 competencies:

• **Competency 4035.1.6: Statistical Analyses**
  The graduate evaluates ANOVA, linear regression, and logistic regression.

• **Competency 4035.1.7: Inputting Data**
  The graduate prepares data sets as input for predictive models.

• **Competency 4035.1.8: Outputting Data**
  The graduate creates models for optimal performance.

Learning Objectives
This course learning objectives can be found within each Learning Resource, addressed within each lesson or unit as appropriate.

Course Mentor Assistance
As you prepare to demonstrate competency in this subject, remember that course mentors stand ready to help you reach your educational goals. As subject matter experts, mentors enjoy and take pride in helping students become reflective learners, problem solvers, and critical thinkers. Course mentors are excited to hear from you and eager to work with you.

Successful students report that working with a course mentor is the key to their success. Course mentors are able to share tips on approaches, tools, and skills that can help you apply the content
you're studying. They also provide guidance in assessment preparation strategies and troubleshoot areas of deficiency. Even if things don't work out on your first try, course mentors act as a support system to help you prepare for another attempt. You should expect to work with course mentors for the duration of your coursework, and you are encouraged to contact them as soon as you begin. Course mentors are fully committed to your success!

Preparing for Success

The information in this section is provided to detail the resources available for you to use as you complete this course.

Learning Resources

The learning resources listed in this section are required to complete the activities in this course. For many resources, WGU has provided automatic access through the course. However, you may need to manually enroll in or independently acquire other resources. Read the full instructions provided to ensure that you have access to all of your resources in a timely manner.

SAS eLearning

The SAS eLearning resource is an online course complete with readings, videos, and interactive exercises. Targeted feedback and self-assessment tools, as well as real-world activities, will help you assess your strengths and those areas that may require you to spend some additional time. In order to access the SAS eLearning resources for this course, you must first create an account/profile and redeem the appropriate access code(s) by following the instructions outlined in the next section.

- Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
- Predictive Modeling Using Logistic Regression

The assignments are designed to guide you through the full course.

Create a SAS Account/Profile

To access the two SAS eLearning resources mentioned above, create a SAS account/profile by following the step-by-step instructions below. Once you have created your account, you will be required to redeem your access code.

1. Open a browser and go to support.sas.com/myelearn.
2. Click on the "Create Profile" button.
3. Fill in all the required fields for your profile. (Notes: It is recommended that you use your WGU email for this account. Leave the "Affiliation with SAS" field blank.)
4. Check the box labeled "I agree to the Terms and Conditions."
5. Click "Create Profile." You will receive an email from SAS Education within a few minutes. (You may need to check your spam folder.)
6. Click the link labeled "Activate my SAS Profile" from within the email you received.
7. Create a password for your account by entering it in the "Password" and "Confirm Password" fields. (Note: You will want to document this password as you will need it to access your account in the future.)
8. Click on the "Set Password" button.
9. Click "Continue".

To redeem your access code, follow the step-by-step instructions below.

1. Open a browser and go to support.sas.com/myelearn.
2. Login into the account you created in the first section of these instructions.
3. On the My Training page, locate the "To Activate a New Product" box on the right side of the screen.
5. Click "Submit." 
6. On the page that follows, check the box labeled "Yes, I Accept The License Agreement."
7. Click "Submit." You should now see your materials accessible on the next page.
8. Click into your account to access your course work and check your browser compatibility.
9. When you are ready, click "Start Course" to begin.

If you have any issues with this process, call SAS Education customer service at 1(800)333-7660 or email elearn@sas.com with questions. Good luck with your studies!

Practice Labs Sandbox

Use of the Practice Labs Sandbox link will take you directly to the MSDA Program lab environment. Click the link to begin.

Practice Exams

Verify your readiness for the certification exam by completing a practice exam. These can be accessed by clicking the links below:

- uCertify Practice Exam

Pacing Guide

The pacing guide suggests a weekly structure to pace your completion of learning activities. It is provided as a suggestion and does not represent a mandatory schedule. Follow the suggestions to complete the course in the suggested timeframe.

- Week 1
  - Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
Course Overview and Data Setup
Lesson 1: Introduction to Statistics

- Week 2
  - Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
    - Lesson 2: Analysis of Variance (ANOVA)

- Week 3
  - Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
    - Lesson 2: Analysis of Variance (ANOVA)

- Week 4
  - Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
    - Lesson 3: Regression

- Week 5
  - Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
    - Lesson 4: Model Post-Fitting for Inference

- Week 6
  - Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression
    - Lesson 5: Categorical Data Analysis

- Week 7
  - Predictive Modeling Using Logistic Regression
    - Course Overview and Data Setup

- Week 8
  - Predictive Modeling Using Logistic Regression
    - Lesson 1: Understanding Predictive Modeling

- Week 9
  - Predictive Modeling Using Logistic Regression
    - Lesson 2: Fitting the Model

- Week 10
  - Predictive Modeling Using Logistic Regression
    - Lesson 3: Preparing the Input Variables

- Week 11
  - Predictive Modeling Using Logistic Regression
    - Lesson 4: Measuring Model Performance

- Week 12
  - Review and Assessment

Final Steps

Congratulations on completing the activities in this course! This course has prepared you to complete the associated certification assessment. If you have not already been directed to complete the assessment, schedule and complete your assessment now.

Certification Exam
Completion of this course prepares you to attempt the SAS Statistical Business Analyst for SAS 9 Certification exam (A00-240) provided by SAS.
Once you feel confident with all of the concepts presented in the course, you are ready to refer for the first attempt of the certification exam. When you take the certification exam, you need to submit your score to scores@wgu.edu regardless of the outcome. If you are unsuccessful in your first attempt, you will need to get in contact with the course mentor to discuss how to prepare for the next attempt. Once the course mentor evaluates your progress, scores, and discusses your readiness, you will be approved to receive the voucher for your next attempt of the certification exam.

Course Feedback

WGU values your input! Please submit any feedback you have using the following form:

Course Feedback

Accessibility Policy

Western Governors University recognizes and fulfills its obligations under the Americans with Disabilities Act of 1990 (ADA), the Rehabilitation Act of 1973 and similar state laws. Western Governors University is committed to provide reasonable accommodation(s) to qualified disabled learners in University programs and activities as is required by applicable law(s). The Office of Student Accessibility Services serves as the principal point of contact for students seeking accommodations and can be contacted at ADASupport@wgu.edu.