

Austin Community College
BMGT 2072 Requirements Elicitation and Analysis
Syllabus Version: Spring Semester 2012

INSTRUCTOR: Dr. Joyce Statz 512-346-5228 joyce.statz@gmail.com

OFFICE HOURS: (classroom) half hour before class each evening
(phone or email) response within 24 hours

TEXTS: Required: Class notebook, distributed at first class session.
Required: *A Guide to the Business Analysis Body of Knowledge[®] (BABOK[®] Guide), version 2.0.* IIBA[®], 2009.
Electronic copy in PDF format is available (**recommended**) at:
<http://secure.ultracart.com/cgi-bin/UCEditor?merchantId=IIBA&ADD=BABOKV2>.
Also available at the [Book Depository](http://www.bookdepository.com/browse/book/isbn/9780981129211)
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DESCRIPTION OF COURSE: This course enables analysts to gather, analyze, document, and communicate requirements to all participants in the project life cycle. Participants learn how to select the appropriate elicitation techniques to gather requirements for their user situations, use the primary industry techniques to analyze requirements, and review the alternatives for how to document collections of requirements. They learn how to use a requirements framework to identify and relate the different types of requirements needed for a solution. They practice using a variety of elicitation and analysis techniques and in homework, focusing on those most prevalent in the industry today – interviews, surveys, workshops, context diagrams, data flow diagrams, state transition diagrams, cause and effect diagrams, process flow diagrams, and use cases. They review and discuss examples of other common techniques as well.

OBJECTIVES: This course is useful for developing business analysis skills. It also provides BABOK[®]-based course hours toward the International Institute of Business Analysis (IIBA[®]) Certified Business Analyst Professional™ (CBAP[®]) or Certification of Competency in Business Analysis™ (CCBA[®]) designations, as well as Continuing Development Units (CDU's) for re-certification.

The student who successfully completes this course will be able to:

1. Select the types of requirements needed for a given project
2. Identify a useful approach to documenting requirements for a project
3. Plan and use appropriate elicitation techniques for a project
 - a. Individual interviews and observations, surveys of organizations
 - b. Group facilitation techniques and workshops
 - c. Prototyping, storyboards, and other means of validating input
4. Plan and use appropriate analysis techniques for a project
 - a. People aspects: role definitions, personas, organization models
 - b. Processes: process models, use cases, state diagrams
 - c. Events that trigger activities: process models, state diagrams, sequence diagrams
 - d. Concepts and Relationships: data dictionaries, data models
5. Write sound requirements statements
6. Develop use case models and use cases
7. Derive functional requirements from use cases and create test cases from use cases

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PREREQUISITES: Those taking the course must have at least a year's experience as a project team member, preferably working on project requirements. This enables class members to augment their learning environment by sharing their varied experiences.

MODULES IN THE COURSE: This course covers the following topics:

- Requirements Framework – Types and Sources of Requirements
- Writing Sound Requirements
- Requirements Elicitation Techniques – brainstorming interviews, observation, surveys, workshops, focus groups, prototyping, storyboards, etc.
- Requirements Analysis techniques – context diagrams, data flow diagrams, data models, process models, class diagrams, sequence diagrams, state diagrams, etc.
- Developing use case models and use cases
- Deriving functional requirements and test cases from use cases
- Documenting Collections of Requirements

EVALUATION:	1. Course Exam	50%
	2. Exercises and Homework	50%
	3. Class Attendance (at least 80% of class hours)	

A completion certificate worth 3.3 continuing education units (CEUs) will be awarded for a total course score of 70% or better, with minimum attendance. 3.3 CEU's are equivalent to 33 PMI Professional Development Units (PDU's) or 33 IIBA® Continuing Development Units (CDU's).

POLICIES:

Participation:

Students are expected to arrive on time, stay for the entire class period, and actively participate in class by asking questions and sharing personal experiences. A student who misses more than 20% of the class will not receive a completion certificate. There is a short break after about 90 minutes of class time. Meals are not provided, but a break room nearby has snack and drink machines.

Makeup Tests and Assignments:

In the short class schedule, make up classes are not available. Student who must miss some portion of class may be able to make alternate arrangements with the instructor to make up what they miss.

Honesty:

Plagiarism and cheating are serious offenses and may be punished by failure on an exam or assignment, failure in the course, and or expulsion from the college. For more information refer to the "Academic Honesty" policy in the student catalog.

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