



College of Education

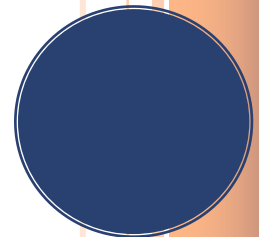
DATA REPORT 2011

Secondary Education: Chemistry

This document contains aggregated candidate data collected at admission, clinical experience, and completion as well as program level on key quantitative variables. The intended uses of these data include identifying areas of strength, areas for improvement, indicators of progress, and as an aid for annual planning.

UNIVERSITY OF WEST GEORGIA

6/23/11



DATA REPORT 2011

SECONDARY EDUCATION: CHEMISTRY

SECTION 1: PROGRAM DATA

Chemistry Initial Certification: List of Assessments

Content Knowledge

State Content Assessment (GACE)

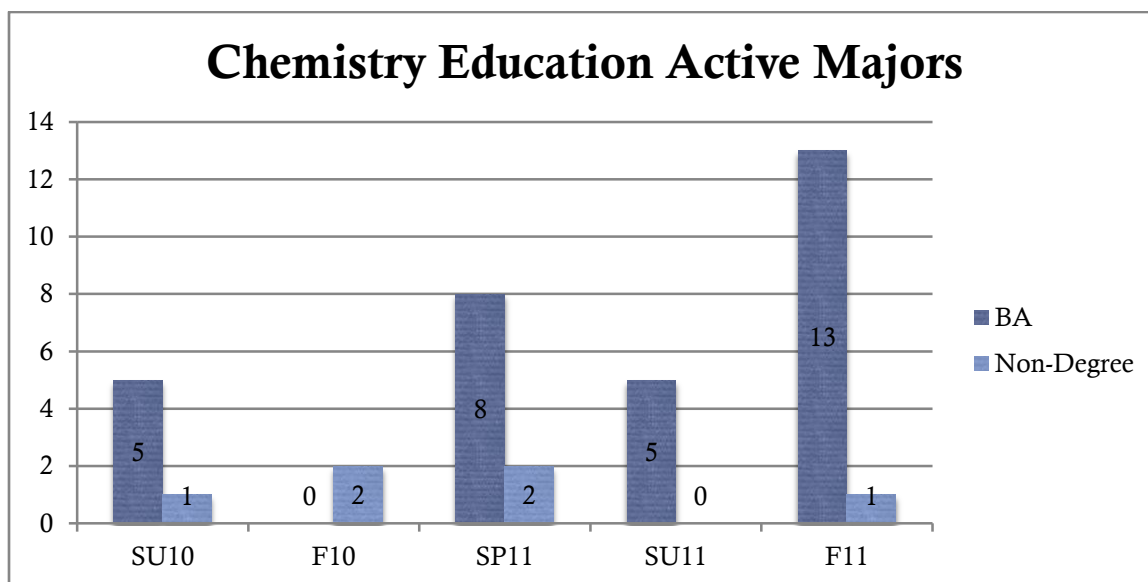
Planning a Unit of Study

Clinical Practice (TEFEE)

Effects on Student Learning

Midpoint/Dispositions

Institutional Assessment (GACE Basic Skills)



SECTION II: CANDIDATE DATA

ADMISSION

Mean GPA	Spring 2009	Fall 2009
Chemistry: Initial Certification	N/A	N/A

GACE Basic Skills Overview

***Results are reported for candidates prior to Teacher Education admission; consequently no disaggregation by program is possible.**

Test	Subarea #	Objective Type	Objective Name	# of Takers - UWG	Objective Score - UWG	# of Takers - GA	Objective Score - GA
Basic Skills-Reading	1	M/C	Analyze the relationship among ideas in written material.	626	71%	6897	72%
Basic Skills-Reading	1	M/C	Determine the meaning of words and phrases.	626	76%	6897	78%
Basic Skills-Reading	1	M/C	Identify a writer's purpose and point of view.	626	75%	6897	74%
Basic Skills-Reading	1	M/C	Understand the main idea and supporting details in written material.	626	74%	6897	74%
Basic Skills-Reading	1	M/C	Use critical reasoning skills to evaluate written material.	626	73%	6897	73%
Basic Skills-Reading	1	M/C	Use reading strategies to comprehend written materials.	626	69%	6897	69%
Basic Skills-Math	1	M/C	Understand measurement concepts and principles of geometry.	628	76%	6861	75%
Basic Skills-Math	1	M/C	Understand number properties and number operations.	628	82%	6861	82%
Basic Skills-Math	1	M/C	Understand problem-solving principles and techniques.	628	81%	6861	81%
Basic Skills-Math	1	M/C	Understand statistical concepts and data analysis and interpretation.	628	77%	6861	77%

Basic Skills-Writing	1	M/C	Recognize effective organization in writing.	630	75%	7002	77%
Basic Skills-Writing	1	M/C	Recognize effective sentences.	630	67%	7002	67%
Basic Skills-Writing	1	M/C	Recognize Standard American English usage.	630	79%	7002	79%
Basic Skills-Writing	1	M/C	Recognize unity, focus, and development in writing.	630	80%	7002	80%

CLINICAL EXPERIENCES

NO DATA

EXIT (GACE CONTENT)

The results reported here are for GACE Content Tests I and II. Results reported are all from takers who identified themselves as seniors at The University of West Georgia between 2006 and the present.

PASS RATES

Program Year	TEST 1			Pass Rate - GA	# Takers - GA	# Pass - GA
	Pass Rate - UWG.	# Takers - UWG.	# Pass - UWG.			
All Selections	-	6	Low N	57%	105	60
2006-2007	-	2	Low N	57%	21	12
2007-2008	-	2	Low N	63%	19	12
2008-2009	-	1	Low N	40%	25	10
2009-2010	-	0	Low N	71%	24	17
Program YTD	-	1	Low N	56%	16	9

	TEST 2					
Program Year	Pass Rate - UWG.	# Takers - UWG.	# Pass - UWG.	Pass Rate - State	# Takers - State	# Pass - State
All Selections	-	6	Low N	75%	105	79
2006-2007	-	2	Low N	71%	21	15
2007-2008	-	1	Low N	78%	18	14
2008-2009	-	2	Low N	68%	25	17
2009-2010	-	0	Low N	79%	24	19
Program YTD	-	1	Low N	82%	17	14

OBJECTIVES SUMMARY

Test	Subarea #	Objective Type	Objective Name	# of Takers - UWG	Objective Score - UWG	# of Takers - GA	Objective Score - GA
Test I	1	M/C	Understand chemical formulas and the nomenclature of ionic and covalent compounds.	5	N/A	90	80%
Test I	1	M/C	Understand the factors that affect the solubility of a substance and the properties of solutions.	5	N/A	90	67%
Test I	1	M/C	Understand the organization of the Periodic Table.	5	N/A	90	82%
Test I	1	M/C	Understand the physical and chemical properties and changes of matter.	5	N/A	90	76%
Test I	1	M/C	Understand the processes of nuclear transformations.	5	N/A	90	66%
Test I	1	M/C	Understand the various models of atomic structure, the principles of quantum theory, and the properties and interactions of subatomic particles.	5	N/A	90	74%
Test I	2	M/C	Understand the different types of chemical bonds, the formation of these bonds, and the effect bond type has on the properties of substances.	5	N/A	90	64%
Test I	2	M/C	Understand the different types of intermolecular forces and the effects they have on the properties of substances.	5	N/A	90	79%
Test I	2	M/C	Understand the kinetic molecular theory and the gas laws.	5	N/A	90	64%

Test I	2	M/C	Understand the laws of thermodynamics and the flow of heat in physical and chemical processes.	5	N/A	90	76%
Test	Subarea #	Objective Type	Objective Name	# of Takers - UWG	Objective Score - UWG	# of Takers - GA	Objective Score - GA
Test II	1	M/C	Understand factors that affect reaction rates and methods for measuring reaction rates.	5	N/A	99	75%
Test II	1	M/C	Understand molar relationships and stoichiometry.	5	N/A	99	90%
Test II	1	M/C	Understand the basic types and characteristics of chemical reactions.	5	N/A	99	53%
Test II	1	M/C	Understand the concept of chemical equilibrium.	5	N/A	99	71%
Test II	1	M/C	Understand the mole concept and its relationship to chemical formulas.	5	N/A	99	88%
Test II	1	M/C	Understand the theories, principles, and applications of acid-base chemistry.	5	N/A	99	52%
Test II	2	M/C	Understand scientific tools, instruments, materials, and safety practices.	5	N/A	99	90%
Test II	2	M/C	Understand the characteristics of scientific knowledge and the process of scientific inquiry.	5	N/A	99	76%
Test II	2	M/C	Understand the skills and procedures for analyzing and communicating scientific data.	5	N/A	99	90%
Test II	2	M/C	Understand the unifying concepts of science and technology.	5	N/A	99	75%