



The Community College of Baltimore County  
Office of Planning, Research and Evaluation

**General Education Outcomes Assessment Data Summary  
September 2006**

The General Education Outcomes Assessment (GREAT) project was conducted during the Fall 2005 semester on all of CCBC main campuses. The assessment data was combined with other student information such as grades and demographics, to provide a comprehensive representation of the students. This summary will focus on an analysis of the scores on the six categories as set forth in the common graded assignments. A previous summary was generated for all other science courses in June 2006. If you have any questions, please contact Natasha Miller, 410-455-4745 or [nmiller2@ccbcmd.edu](mailto:nmiller2@ccbcmd.edu).

**Summary of students participating in the GREAT Projects**

- The following courses took part in this project: Astronomy 101, Biology 106, Chemistry 122-W and Earth Science 101
- A total of 85 students took part in the project but 81 were matched to student demographic information
- The majority of the students were female (44), 36 were males and one unidentified student
- Caucasian students accounted for the majority of students (65%), African-American/Black 14%, 12% Asian and 9% from other racial and ethnic groups
- Of the 81 students 86% successfully completed the course with a grade of A thru D and 6% received a grade of F (Table 1)
- The mean GPA across all courses taking part in this project was 2.73 and students in these course completed an average of 35.63 credit hours (Table 2)
- Across all the courses the ages ranged from 18 to 50 years old with an average of 23 years old

Table 1: Grade distributions by percent and number in all courses participating the Fall 2005 GREAT project

Course	Total Number of Students	A-D*	F	W
ASTM 101	48	83% (40)	4% (2)	10% (5)
BIOL 106	5	60% (3)	40% (2)	0
CHEM 122-W	11	100% (11)	0	0
ERSC 101	17	94% (16)	6% (1)	0
<b>Overall</b>	<b>81</b>	<b>86%</b> <b>(70)</b>	<b>6%</b> <b>(5)</b>	<b>6%</b> <b>(5)</b>

\*Audit grades are not included

Table 2: Mean GPA and number of hours passed by Course

COURSE	Total Number of Students	Mean GPA	Mean Hours Passed
ASTM 101	48	2.67	32.81
BIOL 106	5	2.52	37.20
CHEM 122-W	11	2.88	37.64
ERSC 101	17	2.89	41.82
<b>Overall</b>	<b>81</b>	<b>2.73</b>	<b>35.63</b>

### Summary of results of the Common Graded Assignments

- Several of the courses did not receive a score on some of the categories; the areas of **technology**, **culture** and **independent learning** did not receive a score in Astronomy 101; Biology 106 did not receive a score for both **technology** and **culture**; Earth Science did not receive a score for **independent learning** and Chemistry did not receive a score for **culture**
- Caution should be observed when interpreting the mean score in Earth Science on the area of culture because only one item was scored in this category
- All four courses received a mean score of 3.0 and above in the **content** and **communication** areas
- Astronomy 101 obtained a mean score of 2.8 in **critical** thinking while all other courses received a mean of 3.0 and above
- Only chemistry 122 and Earth Science received a score on **technology** and they both obtained a mean score above 3.0
- Only biology 106 and chemistry received a score on **independent learning** and they obtained a mean of 3.9
- Examination of the effect of overall GPA on mean score on the six content area revealed that the higher the GPA the higher the mean score (Table 4)

Table 3: Mean scores on the six categories by subject

Course	Content	Communication	Critical Thinking	Technology	Culture	Independent Learning
ASTM 101	3.2	3.2	2.8	NA*	NA	NA
BIOL 106	4.2	4.6	3.9	NA	NA	3.9
CHEM 122-W	3.9	4.0	3.6	3.6	NA	3.9
ERSC 101	3.2	3.2	3.0	4.9	5.5**	NA
<b>Overall</b>	3.4	3.4	3.0	4.4	5.5	3.9

\*NA—category did not receive a score

\*\*one score

Table 4: Mean scores on the rubric categories by overall GPA

Overall GPA	Content	Communication	Critical Thinking	Technology	Culture	Independent Learning
0 – 1.00	2.6	3.3	2.8	5.5	NA*	3.0
1.01 - 2.00	3.2	3.2	2.3	4.0	NA	5.0
2.01 - 2.50	2.9	3.0	2.8	3.8	NA	3.0
2.51 - 3.00	3.5	3.5	3.1	4.6	NA	4.0
3.01 - 3.50	3.8	3.7	3.5	4.1	5.5	4.1
3.51 - 4.00	3.3	3.5	3.1	4.3	NA	3.0

\*NA—category did not receive a score

Table 5: Mean scores on the rubric categories by number of credit hours passed

Number of hours passed	Content	Communication	Critical Thinking	Technology	Culture	Independent Learning
0 - 20	3.2	3.3	2.8	4.1	5.5	3.9
21 - 41	3.2	3.3	2.9	4.1	NA*	3.8
42 - 62	3.8	3.7	3.3	4.7	NA	4.1
63 - 83	3.3	3.4	3.1	4.0	NA	3.8
84 - 105	4.0	4.5	4.0	5.5	NA	NA

\*NA—category did not receive a score