

■ **SUMMARY**

This report presents a profile of the students who were served by the college's **CCRAA–HSI STEM Grant in spring 2010**. The report also compares the academic performance of STEM students to the academic performance of non-STEM students.

In **spring 2010**:

STEM students served	163
Female STEM students	65 (40% of all STEM students)
Hispanic STEM students	87 (53% of all STEM students)
Course Enrollments by STEM students	708 (658 at VC, 21 at MC, and 29 at OC)

Overall Success Rates in VC Courses

STEM students	78% [(516 ÷ 658) X 100]
Non-STEM students	66% [(7,461 ÷ 11,290) X 100]
Difference in success rates	12 percentage points or 18% [(12 ÷ 66) x 100]

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Table A. Spring 2010 – STEM Students by Ethnicity and Gender

Ethnic Group	STEM Students				
	Count	Percent	Female	Male	Unreported
Asian / Pacific Islander	16	9.8%	7	9	
Black	5	3.1%	3	2	
Hispanic	87	53.4%	34	53	
Native American	3	1.8%	2	1	
Other	13	8.0%	5	6	2
White	39	23.9%	14	24	1
Total	163	100.0%	65	95	3
Percentage by Gender			40%	58%	2%

Table B. Spring 2010 – STEM Students by Ed Level

Educational Level	STEM Students	
	Count	Percent
Not a HS graduate / Unknown	2	1.2%
HS diploma	143	87.7%
GED / Equivalency / Proficiency	9	5.5%
Foreign HS diploma	5	3.1%
Associate degree	3	1.9%
Bachelor or higher	1	0.6%
Total	163	100.0%

Table C. Spring 2010 – STEM Students by Age

Age in Years	STEM Students	
	Count	Percent
17 or younger	0	0.0%
18 or 19	21	12.9%
20 to 24	95	58.3%
25 to 29	24	14.7%
30 to 34	9	5.5%
35 or over	14	8.6%
Total	163	100.0%

Table D. Spring 2010 – STEM Students by VC Major

Major Description	STEM Students	
	Count	Percent
Agriculture	2	1.2%
Architecture	4	2.4%
Biology	50	30.7%
Biotechnology	6	3.7%
Chemistry	13	8.0%
Engineering	60	36.8%
Environmental Science	8	4.9%
Geology	2	1.2%
Mathematics	17	10.4%
Physics	1	0.7%
Total	163	100.0%

Table E. Spring 2010 – Enrollments at MC / OC

MC: 21 Enrollments			OC: 29 Enrollments		
Subj.	Cnt	Unit	Subj.	Cnt	Unit
BIOL	4	20.0	ART	1	3.0
CHEM	2	12.0	AST	1	1.0
CHIN	1	4.0	BIOL	2	5.0
COMM	1	3.0	CHEM	4	20.0
CS	4	16.0	ENGT	1	3.0
ENGR	1	3.0	HED	1	2.0
HIST	2	6.0	MATH	4	20.0
MATH	1	5.0	MICR	2	5.0
PHYS	4	10.0	PHSO	2	5.0
POLS	1	3.0	PHYS	9	40.0
			SPCH	2	6.0

Table F. Spring 2010 – VC Final Grades Distributions: STEM Students versus Non-STEM Students

Grade Notation	STEM Students		Non-STEM Students *	
	Number	Percentage	Number	Percentage
A	264	40.1%	3,584	31.7%
B	141	21.4%	2,152	19.1%
C	88	13.3%	1,396	12.4%
P	23	3.5%	329	2.9%
Success Rate	516	78.3%	7,461	66.1%
D	26	4.0%	556	4.9%
F	32	4.9%	1,275	11.3%
NP	2	0.3%	162	1.4%
W	82	12.5%	1,836	16.3%
Total	658	100.0%	11,290	100.0%

* Non-STEM Students are the students who were in the same VC course CRNs as the STEM students.

Table G. Spring 2010 – STEM Students: VC Course / Unit Enrollments (page 3)

This table provides VC course and unit enrollments for STEM students by Subject Area (Discipline), and a break out by Method-of-Instruction: **Lec** (Lecture/Lab or Lecture and/or Discussion), **Lab** (Laboratory/Studio/Activity), **D / E** (Dist Ed: Internet Delayed), **Other** (Work Experience or Directed/Independent Study).

Table H. Success Rates (page 3)

This table compares success rates for STEM and non-STEM students in the same VC Subject Areas and CRNs.

Table G. Spring 2010 – STEM Students: VC Course / Unit Enrollments

Subject Area	STEM Students						
	Course and Unit Enrollments						
	Lec	Lab	D / E	Other	Total	Units	Percent
AES	2				2	6.0	0.2%
AG	2				2	7.0	0.3%
ANAT	1				1	4.0	0.1%
ANTH	4		1		5	15.0	0.7%
ARCH	6				6	18.0	0.8%
ART	11		2		13	39.0	1.9%
BIOL	18	3	4		25	92.0	4.5%
BIS	2				2	3.0	0.1%
BUS	1				1	1.0	0.0%
CHEM	73	63			136	347.0	17.1%
CHST	1				1	3.0	0.1%
CJ	3				3	7.5	0.3%
CS	17		1		18	54.0	2.6%
DANC	4				4	6.0	0.2%
DRFT	1				1	3.0	0.1%
ECON	4		1		5	15.0	0.7%
ENGL	35		1		36	146.5	7.2%
ENGR	25	8			33	70.0	3.4%
ESRM	3				3	9.0	0.4%
FREN	3				3	15.0	0.7%
GEOG	1				1	3.0	0.1%
GEOL	2	2			4	8.0	0.3%
GIS	1				1	0.5	0.0%
GW	1				1	1.0	0.0%
HEC	2				2	6.0	0.2%
HED	11				11	31.0	1.5%
HIST	13		2		15	45.0	2.2%
HS	1	1			2	6.0	0.2%
IDS		4	6		10	7.5	0.3%
JOUR			1		1	3.0	0.1%
MATH	115		6		121	544.0	26.9%
MICR	1				1	4.0	0.1%
MM	1		1		2	6.0	0.2%
MUS	2				2	6.0	0.2%
NS	1				1	3.0	0.1%
PE	41				41	61.0	3.0%
PHIL	8				8	24.0	1.1%
PHOT	2			1	3	9.0	0.4%
PHSC			1		1	4.0	0.1%
PHSO	2				2	8.0	0.3%
PHYS	38	38	8		84	229.0	11.3%
POLS	4		1		5	15.0	0.7%
PSY	9		3		12	36.0	1.7%
SL	3				3	9.0	0.4%
SOC	2				2	6.0	0.2%
SPAN	9				9	45.0	2.2%
SPCH	12				12	36.0	1.7%
WEXP				1	1	3.0	0.1%
Total	498	119	39	2	658	2,020.0	100.0%

Table H. Success Rates

Success Rates	
STEM Students	Non-STEM Students
100.0%	44.4%
100.0%	52.6%
100.0%	81.5%
60.0%	73.6%
100.0%	85.2%
69.2%	60.3%
84.0%	48.0%
50.0%	35.7%
0.0%	46.6%
80.9%	71.7%
100.0%	58.3%
100.0%	74.3%
77.8%	80.0%
0.0%	71.9%
100.0%	63.2%
40.0%	61.1%
83.3%	79.7%
69.7%	76.0%
66.7%	76.6%
100.0%	73.6%
100.0%	76.9%
100.0%	63.0%
100.0%	50.0%
100.0%	54.5%
100.0%	55.3%
90.9%	74.3%
93.3%	67.2%
100.0%	94.8%
100.0%	87.1%
0.0%	48.3%
59.5%	51.1%
100.0%	62.5%
50.0%	53.7%
100.0%	80.3%
0.0%	53.7%
80.5%	61.7%
100.0%	73.5%
66.7%	70.3%
0.0%	68.0%
100.0%	69.4%
91.7%	77.9%
80.0%	52.9%
100.0%	76.9%
100.0%	91.2%
100.0%	70.9%
100.0%	84.1%
66.7%	86.9%
100.0%	0.0%