

I. Student Teaching Data: (evaluations completed by cooperating teachers)

This assessment data is aggregated from 253 cooperating teacher final evaluations of student teachers between the fall of 2001 and the fall of 2008. The student teachers were in the VCSU Elementary Education program located in Fargo at NDSU.

Cooperating teachers rate student teachers on a 1 to 5 scale with a score of “5” being the best rating. The 114 student teachers between the fall of 2001 through the spring of 2004 had an aggregate mean score of 4.7544. Many of those student teachers did not have laptops or only had them for a portion of their VCSU Elementary Education courses.

The 139 student teachers between the fall of 2004 and fall of 2008 had laptops throughout their entire VCSU experience. VCSU student teachers from NDSU have earned a higher aggregated mean score, 4.88, from cooperating teachers over the past nine semesters than they did in the six semesters between 2001 and 2004.

Cooperating Teacher Final Evaluations for NDSU Elementary Student Teachers			
VCSU/NDSU		Use of Technology (Fall 2001 - Spring 2004)	Uses Technology Appropriately (INTASC 6) (Fall 2004 - Fall 2008)
NDSU	Mean	4.7544	4.8849
	N	114	139
	Std. Deviation	.47151	.40071

Students teachers as a whole have achieved a higher rating from cooperating teachers in technology than they have as an overall mean score. Of the 26 attributes evaluated by cooperating teachers, **“Uses Technology Appropriately” has the third highest mean score at 4.83**. The top two student teaching mean scores out of the past 524 student teacher placements are, “Fairness and Belief that All Students Can Learn” at 4.86, and Collaboration, Relationships, and Ethics (INTASC 10) at 4.84.

Cooperating Teacher Final Evaluations for Student Teachers Fall 2004 - Fall 2008					
	N	Min.	Max.	Mean	Std. Deviation
Uses Technology Appropriately (INTASC 6)	524	2.00	5.00	4.8349	.45013
Mean for Individual Student Teacher (Fall 2004 to present)	524	3.00	5.00	4.7665	.39427

The next chart breaks down the comparison of VCSU secondary majors, VCSU elementary education majors in Valley City, and VCSU elementary education majors in the NDSU program. In each breakdown area, cooperating teacher evaluations of students teachers rated “Uses Technology Appropriately” in a manner such that the aggregated mean score was higher than the typical mean score for each student teacher category evaluated.

Cooperating Teacher Final Evaluations for Student Teachers Fall 2004 - Fall 2008			
VCSU/NDSU		Uses Technology Appropriately (INTASC 6)	Mean for Individual Student Teacher (Fall 2004 to present)
1=VCSU Elem.	Mean	4.8429	4.7923
	N	175	175
	Std. Deviation	.44804	.39034
2=NDSU	Mean	4.8849	4.8153
	N	139	139
	Std. Deviation	.40071	.36460
3=VCSU Secondary	Mean	4.7952	4.7127
	N	210	210
	Std. Deviation	.48021	.41148
Total	Mean	4.8349	4.7665
	N	524	524
	Std. Deviation	.45013	.39427

II. Self-Assessment Data: (surveys completed by VCSU Students)

Why?

Linda Darling-Hammond and John Bransford’s book entitled *Preparing Teachers for a Changing World: What Teachers Should Learn and Be Able To Do* has a section on student self-assessments which includes the following statement: **“Engaging students in critiquing their own work serves both cognitive and motivational purposes. Ultimately the habit of self-assessments leads to the self-monitoring of performance that is the goal of instructional scaffolding...”** VCSU wants to promote reflection and autonomous learning. The School of Education and Graduate Studies wants learners pointed toward high standards for teacher quality and the candidates to develop ownership of their growth as lifelong learners through reflective practice along their path.

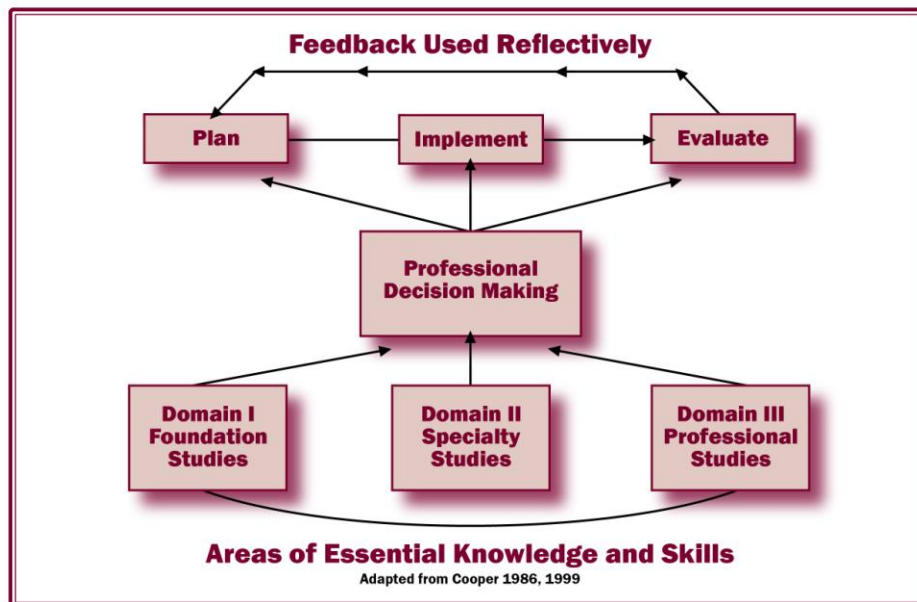
When do students complete self-assessments at the undergraduate level?

- (1) **Entry Level: ideally the 1st course in the education program (Intro to Education)**
- (2) **Mid-Level: at the time of the student teaching interview (one semester before student teaching)**
- (3) **Exit Level: during the final student teacher meeting (right before graduation)**
- (4) One year after graduation.

The program has three domains (*photo below the data chart*). Students rate their educational experience and confidence level in each General Education (**Foundation Studies**) area on a 1 to 5 scale with “5” being the best. (5 = Excellent Quality, 4 = High Quality, 3 = Fair, 2 = Below Average, 1 = Poor). Technology appears to be an area in which students rate their educational experience and confidence level higher at each stage. *The self-assessment data indicates a mean score and a count. This data is newer than the student teaching data and will be of more value when the unit has a larger sample.*

Self Assessments				
Domain I: General Education				
Domain I: General Education	Intro Experience Mean / Total	Admission to Student Teaching Mean / Total	Student Teaching Mean / Total	1st & 3rd Year Grad Survey Mean / Total
Science	3.43 / 133	3.92 / 95	4.06 / 34	3.5 / 2
Mathematics	3.75 / 135	4.12 / 89	4.41 / 34	2.5 / 2
Humanities	3.69 / 128	3.85 / 89	4.19 / 32	3 / 2
Social Studies	3.63 / 134	3.89 / 89	3.91 / 33	2.5 / 2
Psychology	3.83 / 131	3.9 / 89	4.06 / 32	3.5 / 2
Technology	3.63 / 133	4.18 / 90	4.44 / 32	4.5 / 2
Use of the English Language	4.24 / 133	4.27 / 89	4.56 / 32	3.5 / 2
Fitness and Wellness	4.01 / 130	4.06 / 89	4.26 / 31	3 / 2

Student Assessment is Copyright © 2007 – Valley City State University
 Designed and Developed by the VCSU Web Office



Because VCSU places a premium on technology, “Apply Technology” is listed again in Domain III. While Domain I implies a more general use of technology, the Domain III reference is intended to learn how students feel about their ability to use technology in their teaching.

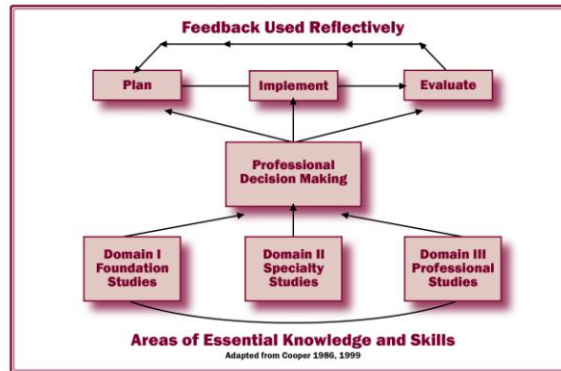
Domain III: Professional Studies	Intro Experience Mean / Total	Admission to Student Teaching Mean / Total	Student Teaching Mean / Total	1st & 3rd Year Grad Survey Mean / Total
INTASC 1: Subject Matter	3.73 / 127	4.02 / 81	4.56 / 27	4 / 1
INTASC 2: Student Learning	3.8 / 127	4.17 / 81	4.67 / 27	4 / 1
INTASC 3: Diverse Learners	3.55 / 126	3.85 / 81	4.48 / 27	4 / 1
INTASC 4: Instructional Strategies	3.7 / 124	4.05 / 81	4.52 / 27	4 / 1
INTASC 5: Learning Environment	3.83 / 125	4.15 / 80	4.59 / 27	4 / 1
INTASC 6: Communication	4.06 / 124	4.28 / 80	4.56 / 27	4 / 1
INTASC 7: Planning Instruction	3.82 / 124	4.15 / 81	4.48 / 27	5 / 1
INTASC 8: Assessment	3.67 / 123	4.04 / 81	4.41 / 27	4 / 1
INTASC 9: Reflection	3.88 / 124	4.31 / 80	4.59 / 27	5 / 1
INTASC 10: Collaboration	3.78 / 125	4.22 / 81	4.59 / 27	5 / 1
Applying Technology	3.61 / 125	4.36 / 81	4.67 / 27	5 / 1
Implementing Lesson Plans	3.85 / 124	4.24 / 80	4.67 / 27	4 / 1

The third place Technology is listed in the self-assessment is with regard to the Abilities VCSU students are developing. "Technology" and "Reflection for future growth" are the two areas students have rated the highest by the time they complete their student teaching.

University and Education Abilities	Intro Experience Mean / Total	Admission to Student Teaching Mean / Total	Student Teaching Mean / Total	1st & 3rd Year Grad Survey Mean / Total
Communication	3.97 / 125	4.3 / 80	4.7 / 27	4 / 1
Collaboration	3.81 / 123	4.23 / 81	4.7 / 27	5 / 1
Technology	3.74 / 126	4.35 / 80	4.81 / 26	5 / 1
Problem Solving	3.88 / 125	4.29 / 80	4.69 / 26	4 / 1
Effective Citizenship	3.91 / 123	4.18 / 80	4.44 / 27	3 / 1
Aesthetic Engagement	3.73 / 124	4.01 / 81	4.41 / 27	3 / 1
Wellness	3.94 / 124	4.13 / 80	4.52 / 27	3 / 1
Global Awareness/Diversity	3.68 / 125	4 / 80	4.41 / 27	4 / 1
Lesson and Unit Planning	3.83 / 126	4.31 / 81	4.7 / 27	5 / 1
Implementing Lesson Plans	3.81 / 124	4.26 / 82	4.69 / 26	4 / 1
Formal and Informal Evaluation	3.73 / 125	4.01 / 81	4.56 / 27	4 / 1
Reflection for future growth	3.97 / 125	4.32 / 82	4.72 / 25	5 / 1

III. VCSU Graduates (35 graduates who completed a survey in May of 2007)

Follow-up surveys of 1st and 3rd year graduates who are teaching were surveyed with respect to the VCSU Model, including the three educational Domains and the VCSU Abilities. Survey questions were asked about “Technology” in two areas on this survey. Domain I and in the area of Abilities the graduates students rate their educational experience and confidence level.



(5=excellent quality, 4=high quality, 3=fair, 2=below average, 1=poor)

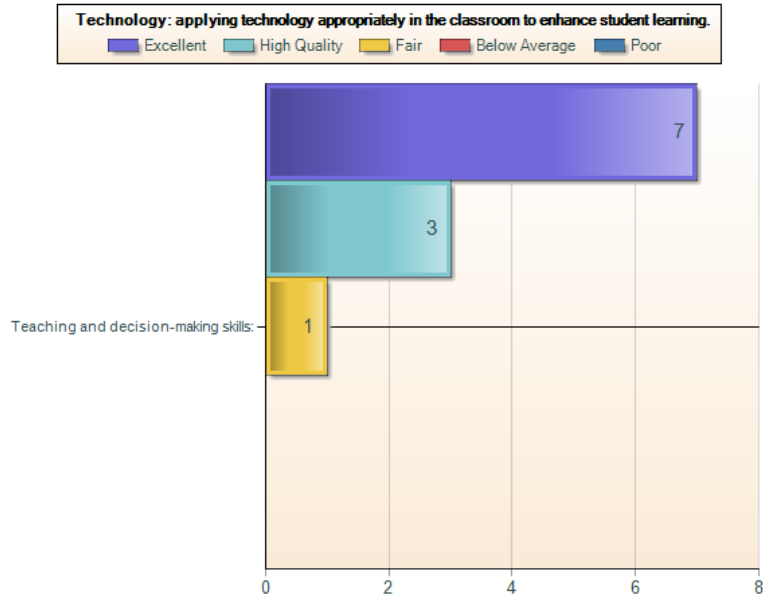
N= 35 graduates	1 st &3 rd yr.
Domain I: Foundation Studies	Teachers
Science	3.66
Math	4.03
Humanities	3.63
Social Studies	3.66
Psychology	3.37
Technology	4.60
Use of English Language	4.31
Fitness & Wellness	4.37

	1 st & 3 rd yr. Teachers
VCSU University & Education Abilities	
Communication	4.23
Collaboration	4.11
Appropriate and Effective Use of Technology	4.26
Problem Solving	4.20
Effective Citizenship	4.34
Aesthetic Engagement	4.06
Wellness	4.20
Global Awareness & Respect for Diversity	4.20
Lesson & Unit Planning	3.94
Implementation of Teaching Plans	4.09
Formal & Informal Evaluation of Learning	3.86
Reflection for Future Growth	4.14

IV. Employers (the following data was gathered from 11 administrators of VCSU teachers)

Employer (Administrator) evaluations of 1st and 3rd year VCSU teachers

8. Technology: applying technology appropriately in the classroom to enhance student learning.					
Top number is the count of respondents selecting the option. Bottom % is percent of the total respondents selecting the option.	Excellent	High Quality	Fair	Below Average	Poor
Teaching and decision-making skills:	7 64%	3 27%	1 9%	0 0%	0 0%



The chart below shows the subject matter for each of the thirteen questions the employers (administrators) were asked. Technology was second only to the administrators' overall satisfaction with the VCSU graduate they hired as a teacher in their school. (5=excellent quality, 4=high quality, 3=fair, 2=below average, 1=poor)

Domain III: Professional Studies	Administrator's Evaluations
1. Subject Matter (INTASC 1)	4.45
2. Student Learning (INTASC 2)	4.45
3. Diverse Learners (INTASC 3)	4.18
4. Instructional Strategies (INTASC 4)	4.45
5. Learning Environment (INTASC 5)	4.45
6. Communication (INTASC 6)	4.36
7. Planning Instruction (INTASC 7)	4.18
8. Assessment (INTASC 8)	4.09
9. Reflection & Professional Development (INTASC 9)	4.18
10. Collaboration, Ethics, & Relationships (INTASC 10)	4.45
11. Technology (VCSU emphasis)	4.55
12. Implementation of Lesson Plans (VCSU emphasis)	4.45
Overall satisfaction with preparation of VCSU teacher. 73% Excellent quality, 27% High quality	4.73

N= 11 administrators

V. Portfolios: (faculty evaluations through portfolio assessment)

Cumulative Summary Nine Semesters, Fall 2004- Fall 2008																											Percent selecting each								
Graduation Portfolios for Elementary Education																																			
University Abilities	Fall 2004			Spring 2005			Fall 2005			Spring 2006			Fall 2006			Spring 2007			Fall 2007			Spring 2008			Fall 2008			Cumulative			Total Pts	Ability			
	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total					
Aesthetic Engagement	4	4.00	16.0	3	4.77	14.3	2	3.00	6.0	12	3.92	47.0	5	4.34	21.7	4	4.25	17.0	4	3.50	14.0	4	3.50	14.0	0	0.00	0.0	38	3.95	150.05	16.9%				
Collaboration	18	3.75	67.5	33	3.90	128.7	23	3.93	90.4	36	3.98	143.3	12	4.06	48.7	32	4.24	135.7	21	4.21	88.4	21	4.21	88.4	16	4.13	66.1	212	4.04	857.17	94.2%				
Communication	14	3.57	50.0	26	3.98	103.5	21	3.90	81.9	34	3.86	131.2	11	3.92	43.1	31	3.92	121.5	16	4.13	66.1	16	4.13	66.1	16	3.94	63.0	185	3.93	726.44	82.2%				
Effective Citizenship	13	4.27	55.5	24	3.92	94.1	12	3.81	45.7	21	3.95	83.0	8	4.04	32.3	21	3.77	79.2	12	4.08	49.0	12	4.08	49.0	12	3.75	45.0	135	3.95	532.67	60.0%				
Global Awareness	9	3.89	35.0	25	4.05	101.3	15	4.34	65.1	24	3.98	95.5	9	3.97	35.7	23	4.17	95.9	10	4.55	45.5	10	4.55	45.5	11	4.05	44.6	136	4.15	564.07	60.4%				
Problem Solving	17	3.62	61.5	32	3.85	123.2	21	4.00	84.0	34	3.91	132.9	12	3.89	46.7	27	4.13	111.5	19	4.00	76.0	19	4.00	76.0	14	3.86	54.0	195	3.93	765.91	86.7%				
Technology	18	3.86	69.5	32	3.94	126.1	19	4.00	76.0	37	3.93	145.4	11	4.09	45.0	36	4.16	149.8	19	4.13	78.5	19	4.13	78.5	14	4.11	57.5	205	4.03	826.20	91.1%				
Wellness	4	4.50	18.0	4	3.55	14.2	5	4.54	22.7	10	3.88	38.8	3	4.17	12.5	8	3.88	31.0	6	4.08	24.5	6	4.08	24.5	3	3.83	11.5	49	4.03	197.70	21.8%				
Education Abilities	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Total Pts	required
Planning	19	3.82	72.6	35	3.97	139.0	22	4.08	89.8	40	3.94	157.6	14	4.02	56.3	36	4.18	150.5	21	3.83	80.4	21	3.83	80.4	17	4.09	69.5	225	3.98	896.04	100.0%				
Implementation	19	3.74	71.1	35	4.09	143.2	22	4.00	88.0	40	3.90	156.0	14	4.04	56.6	36	4.26	153.4	21	3.79	79.6	21	3.79	79.6	17	4.09	69.5	225	3.99	896.84	100.0%				
Evaluation	19	3.68	69.9	35	3.99	139.7	22	3.96	87.1	40	3.86	154.4	14	3.91	54.7	36	4.07	146.5	21	4.14	86.9	21	4.14	86.9	17	4.18	71.1	225	3.99	897.29	100.0%				
<i>*Pilot in 2004-05, results will be 100% after Fall 2005</i>																																			
Final Reflection	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Count	Mean	Total	Total Pts	100% since the Fall of 2005
Development and Reflection	5	4.20	21	19	4.00	76	22	4.12	90.6	40	3.78	151.2	14	4.16	58.2	36	4.22	151.9	21	4.31	90.5	21	4.31	90.5	17	4.21	71.6	195	4.11	801.59	100.0%				

This data has been collected on 225 Elementary Education majors who presented their portfolios to faculty before graduation between Fall 2004 – Fall 2008. Elementary Education majors may choose any five of the eight University Abilities. 205 of the 225 students (91.1%) have chosen to feature a technology project as a representation of their best work. Faculty members evaluate the students’ written and audio reflections on their learning. The 4.03 aggregate mean score is an admirable on the 5 point scale is which “5” is the best rating a student can receive.

University Ability	Total Student Reflections	Percent of Students Selecting the Ability	Mean Score from Faculty Ratings
Aesthetic Engagement	38	16.9%	3.95
Collaboration	212	94.2%	4.04
Communication	185	82.2%	3.93
Effective Citizenship	135	60.0%	3.95
Global Awareness	136	60.4%	4.15
Problem Solving	195	86.7%	3.93
Technology	205	91.1%	4.03
Wellness	49	21.8%	4.03