DOCUMENT RESUME

ED 472 812 SP 041 327

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TITLE Using General Education Assessment Rubrics to Document Basic

Skills and Content Knowledge.

PUB DATE 2003-01-00

NOTE 19p.; Paper presented at the Annual Meeting of the American

Association of Colleges for Teacher Education (55th, New

Orleans, LA, January 24-27, 2003).

PUB TYPE Reports - Descriptive (141) -- Speeches/Meeting Papers (150)

EDRS PRICE EDRS Price MF01/PC01 Plus Postage.

DESCRIPTORS Alternative Assessment; Cooperative Planning; Elementary

Secondary Education; Higher Education; Knowledge Base for Teaching; Performance Based Assessment; Preservice Teacher Education; *Scoring Rubrics; *State Standards; *Student

Teacher Evaluation; *Teacher Competencies; Teacher Knowledge;

Teaching Skills

IDENTIFIERS Nebraska

ABSTRACT

This paper describes a collaborative approach to using general education rubrics as an additional assessment strategy to American Association of Colleges for Teacher Education members who are revising and sustaining their institutional and teacher education assessment programs. Faculty members from a rural, comprehensive private college in Nebraska have developed and are using ten rubrics: writing; critical thinking; heritage studies; cultural perspectives; mathematics reasoning; communication; community and leadership; health and wellbeing; liberal learning; and natural sciences. The paper presents information on: ways to use rubrics; the process for rubric development; rubric development criteria; strategies to build faculty commitment; collaboration between general education and teacher education; basic skills competence; and content knowledge. The paper concludes that using general education rubrics to document teacher candidate accomplishments of basic skills and content knowledge is collaborative, efficient, and effective, noting that the process of gathering assessment data, completing data analysis, and using findings to improve programs is both intensive and extensive. The rubrics are attached. (SM)



Using General Education Assessment Rubrics to Document Basic Skills and Content Knowledge

> AACTE Annual Conference New Orleans, LA January 26, 2003

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Using General Education Assessment Rubrics to Document Basic Skills and Content Knowledge

Regional and professional accreditation standards challenge faculty in the liberal arts and teacher education to assess the achievement of undergraduate students. Faculty have always determined what students have learned. Faculty have graded tests, evaluated papers, and reviewed presentations. The results were given to the student and the most effective faculty made notes for revisions the next time the course was taught. The assessment initiative changes this process by asking faculty to share course assessments for reviews of student achievement in academic majors. Faculty now must aggregate data for review; from a larger perspective colleges and universities are examining learning directed to the liberal arts outcomes. Assessment has made visible and public the intentional improvement process. Now improvements in programming are celebrated in styles previously reserved for the opening of a new building.

Assessment of learning is an integral part of instruction, yet many faculty believe it is an added responsibility apart from the teaching process. Public institutions report their findings to a larger audience than private institutions (Allen and Bresciani, 2003). Given the high demands on faculty time, assessment strategies should serve multiple audiences whenever possible. Several times over, we ask ourselves and our colleagues this question: What are successful structures and approaches for schools, colleges, and departments of education? The use of general education assessment data to provide information about teacher-candidate accomplishment of basic skills and content knowledge is a new solution to this question. Collaboration among faculty is efficient use of both human and fiscal resources.

Assessment: An Integral Part of Teaching-Learning

Assessment is an essential process today. Informally or formally, we assess in all arenas of business, education, and recreation. Educators face national agendas for student learning and centralized testing during a time of increased classroom challenges and more needs for individualized student support. Teacher educators and their liberal arts colleagues recognize that these agendas apply to tertiary education as well as elementary and secondary programs. They can collaborate to gather and jointly analyze data to benefit student achievement. This collaboration results in effective and efficient assessment strategies.

Maki (2002) restates several points about assessment which ring true to faculty understanding about assessment. Maki begins by noting that faculty view assessment as an externally-mandated process that is separate and distinct from their teaching and scholarship. She continues that viewing assessment as scholarship about learning in the



faculty member's content area of expertise and interest motivates faculty to participate more fully in the assessment process. She concludes that institutions should foster faculty inquiry about student learning through revisions in academic structures.

Collaboration through assessment

One revision in academic structures is more collaboration between teacher educators and faculty in the liberal arts. Although there are many collaborative structures, one emergent strategy is to host joint accreditation visits by two or more accreditation agencies. Erickson and Penney (2002) describe an accreditation team that combined members from the Middle States Association (MSA), the American Assembly of Collegiate Schools of Business (AACSB), and ABET, the specialized accreditor for engineering. Planning started two years before the actual on-site visit. Early planning of the self-study format and team composition are important, as is regular communication among the team chair and co-chairs prior to the visit.

At a local institutional level, collaborative efforts to support assessment can be implemented through development of rubrics for student performance of liberal learning outcomes. These outcomes integrate the knowledge, skills, and dispositions expected of graduates. For teacher educators, assessment of teacher candidate performance with general education rubrics offers another strategy to document candidate basic skills and content knowledge. Rubrics offer students/teacher candidates clear expectations and allow self-assessment and faculty evaluation of accomplishment of the learning indicators. Careful development of rubrics minimizes institutionalized bias and sets the expectation of integrated learning to avoid learning of isolated facts. Additionally, general education rubrics document student accomplishment of the broad liberal learning outcomes valued by higher education.

Assessment philosophy statements

At this college, several belief statements represent our philosophy about assessment. These statements include:

- Assessment data should be aggregated and disaggregated for uses in a variety of ways.
- Assessment data should be provided by direct and indirect measures.
- Self-assessment should be connected to public goals and individual student learning.
- Assessment is based on two central purposes: accountability and improvement.
- An assessment program is strengthened by multiple strategies.
- Assessment strategies should serve multiple audiences whenever possible.

In addition to building collaboration between teacher education and liberal arts faculty, general education rubrics enable faculty and students/candidates to aggregate and disaggregate data, serve as a direct measure of student performance, contribute to self-assessment, serve both the accountability and program improvement functions of assessment programs, provide meaningful information to multiple audiences, and



contribute one piece of a total picture about candidate learning. Indeed, general education rubrics implement the philosophical statements.

One Case Example

This paper describes the new collaborative approach of using general education rubrics as an additional assessment strategy to AACTE members who are revising and sustaining their institutional and teacher education assessment programs. Because there is a strong federal initiative to use a single standardized test score for measuring candidate content knowledge, teacher educators should increase efforts to use multiple measures for basic skills, general education outcomes, professional dispositions, and content area expertise. The Nebraska Department of Education requires candidates for licensure to meet established minimum scores on the Pre-Professional Skills Test (PPST) in reading, writing, and mathematics. Nebraska currently does not require a state-wide content area examination.

Faculty members from this rural, comprehensive private college have developed and are using several rubrics. This collection of ten rubrics is impressive. The general education rubrics are: 1) Writing; 2) Critical Thinking; 3) Heritage Studies; 4) Cultural Perspectives; 5) Mathematics Reasoning; 6) Communication; 7) Community and Leadership; 8) Health and Well-Being; 9) Liberal Learning; and 10) Natural Sciences. Although this set of rubrics will not transfer directly to another campus, the rubrics serve as models to faculty of other institutions who may develop rubrics unique and specific to their college's mission and general education outcomes.

Ways to Use Rubrics

Faculty and students use the rubrics in several ways; each use supports higher academic achievement. While planning instruction, faculty articulate precise statements of learner outcomes and share these outcomes through the rubric among other formats. Planning student outcomes ensures that instruction leads to student achievement. Student course outcomes can be aligned to outcomes for the academic major or general education. Faculty members also identify prerequisite skills and knowledge, and review student needs.

During instruction, faculty use rubrics to confirm that each learning experience is tied to the learning outcomes. Rubrics may include content knowledge factors, skills, and attitudes to be displayed by students. Faculty should encourage students to use the rubrics as a guide to difference performance level. While instruction is in process, faculty members examine student responses and projects to demonstrate content skills and knowledge according to indicators on the rubric. This formative use of rubrics leads to minor adjustments and fine-tuning of instruction to the specific individuals in the class community.

Faculty may decide to apply rubrics as a scoring guide during summative evaluation of student products. If professors have one copy of the rubric for each assignment,



faculty may simply circle or check the indicators that are present. By making notes to ourselves about revisions for improvement of student learning, we capture the ideas for revisions in the rubric or in the learning experiences while we remember them. It is also helpful to make copies of student work at different levels of performance to share as examples with future students.

Students should be accountable for using the rubrics during instruction and assignment completion. Rubrics provide the framework for students to self-assess their own work and provide the structure for peer review. Peers can review assignments prior to formal submission as one step in the process of developing a completed piece of work. Often, an assignment may be improved by using critical critique from peers. With clear expectation, students can ask questions based on elements or indicators they do not understand. Rubrics with levels of performance can help students set goals for the level of their own performance. Additionally, students may use rubrics to identify growth areas in their own learning. Students and faculty may work together to develop rubrics for selected assignments. This gives students ownership of their learning and is another way to help them set their own learning goals.

The Process for Rubric Development

Faculty are involved at every level of rubric development. Two faculty are selected to prepare the first draft which emphasizes the important concepts in the student outcome. One of the faculty members is a member of the Assessment Committee and another teaches in the liberal arts category of the proposed rubric. After they are satisfied with the key processes, the assessment committee chair and the committee member may revise with the approval of the second liberal arts category faculty member. These revisions ensure there are five performance levels, typically applying Bloom's taxonomy of cognitive domain. Then, the Assessment Committee as a whole reviews the draft rubric and may request revisions. If the Assessment Committee members are in agreement that they support the rubric as presented, the Assessment Committee facilitates a Conversations with Colleagues. These are a noon forum open to all campus faculty with cafeteria lunches paid by the Academic Affairs Office. Using focus group techniques, the Assessment Committee chair seeks to understand the ways attending faculty support or suggest revisions in the proposed rubric. Next the revisions from campus faculty are proposed to the Assessment Committee. The two original writers may be consulted if the revisions seem significant. Finally, the Assessment Committee approves the final draft and distributes it to faculty for use in courses.

Most of the rubrics have been developed in the summer with stipends to recognize the scholarly work they are contributing to the effort.

Rubric development criteria

Doane's Assessment Committee has used five criteria for rubric development. We have challenged ourselves to limit the rubrics to one page. We have one two-page rubric, but faculty were unable to delete content or ideas in the revision stages. They have accepted the exception. Because the rubric is shared with students and sometimes other



audiences, we limit use of professional jargon. We promote the use of critical thinking in all levels by using five performance levels based on Bloom's Taxonomy of the Cognitive Domain. Finally, we confirm that the rubric reflects the Doane Plan category outcome.

Strategies to build faculty commitment

Building faculty commitment is a challenge for any assessment task. Faculty involvement and recognition for assessment work is one strategy. Recognition includes the stipend for summer work, light-hearted rewards at the August faculty meeting, announcing the open meetings of the Assessment Committee, strong administration support expressed publicly at the monthly faculty meetings, and other venues. Individual meetings between the Assessment Committee chair and departmental faculty provide feedback on assessment strategies and increase commitment.

Collaboration between general education and teacher education

Opportunities for collaboration exist when assessing both basic skills and content knowledge. These opportunities ensure the use of multiple measures and provide prescriptive diagnosis of areas for program improvement or individual development prior to taking costly standardized tests.

Basic skills competence

Doane's general education outcomes expect students to demonstrate competence in reading, writing, listening, speaking, and mathematical reasoning. These competencies are common to Praxis I or other state required exam of basic skills. When faculty complete rubrics in Writing, Communication, and Mathematical Reasoning, students receive task specific feedback on their performance. Faculty can provide experiences to promote learning needs; this allows students to have a realistic authentic assessment of their achievement. In this way, liberal arts faculty members are assessing teacher education candidate's performance. This information is shared with teacher education departments through candidate portfolios, and surveys completed by general education faculty. These data are available to document learning for both regional and professional accreditation.

Nebraska's Department of Education has written the six traits into its K-12 standards. Teacher candidates in elementary, middle, and special education learn to assess writing by those standards. Although the six traits are embedded in Doane's all college writing rubric, some education faculty use the Six Trait rubric to assess teacher candidate work. In some courses, candidates decide to use either the all college rubric or the Six Trait rubric.

Because Doane's general education includes some use of standardized tests, subgroup data on education students is available. Although the all-college test does not meet the state requirements, teacher candidates with high test anxiety have a low stress testing time to build their confidence. The general education tests also serve as a signal to



faculty and students about individual candidate's readiness to sit for the state exam. Additionally, subgroup data on performance of education students are available.

Content knowledge

General education rubrics reflect the foundation of specific disciplines. This foundation serves as the structural scaffold to enable on-going learning. When candidate competence is evaluated on the breadth of content, candidates begin to understand the depth they must develop. Regional accreditation associations expect faculty to provide evidence of student learning in the academic major. The annual assessment reports serve as one measure for teacher candidate competence.

Although Doane exists in a state without a standardized test for documenting content knowledge, education candidate data from faculty surveys can be used to describe candidate achievement in content areas. For candidates seeking licensure in secondary education, the rubric related to the major serves as a foundation to the additional assessments completed for the academic major. These faculty surveys, like the rubrics, are based on general education outcomes. Selected faculty teaching courses in the liberal arts categories and all faculty teaching capstone courses complete the surveys. A hardware and software package enables us to select students by courses for results. At least one unit with professional accreditation uses data from these surveys in its annual reports.

Conclusion

Use of general education rubrics to document teacher candidate accomplishment of basic skills and content knowledge is collaborative, efficient, and effective. The process to gather assessment data, complete data analysis, and use of the findings to improve programs is both intensive and extensive Collaborative efforts prevent duplication among faculty and administrators who must revise and sustain assessment programs in both specialized accreditation council and regional commissions. The extensive set of general education rubrics developed by faculty of this college offer AACTE membership a model for a new approach by revising the rubrics for use at their own institutions.

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Doane College Crete, NE General Education Outcomes

Through the completion of the Doane Plan, Doane students demonstrate the following:

- 1. An understanding of the origins, development, values, and distinctive qualities of Western heritage
- 2. An understanding of the nature and effects of economic, political, psychological, and social forces
- 3. An understanding of the values, traditions, behaviors, and philosophical foundations of diverse national and international cultures
- 4. An understanding of the basic phenomena of the natural world, methodologies governing the sciences, and the relationship of both to the world community
- 5. An understanding of the fundamental processes of mathematics and the ability to use mathematical modeling in solving practical problems
- 6. The ability to read, write, speak, listen, and interpret meanings effectively
- 7. The ability to understand, appreciate, and engage in creative expression
- 8. An understanding of health and lifetime fitness
- 9. An understanding of constructive leadership and ethical decision making
- 10. The ability to appreciate and explore new areas of learning.



9

Heritage Studies Rubric

An understanding of the origins, development, values, and distinctive qualities of Western heritage is demonstrated when: according to one or more of values from one or more of world's major religions and Philosophy and the History problem solving, or (2) the Validates his/her decisions or the decisions of another and literature in relation to events and dominant ideas, Formulates and articulates social contexts, or (4) the based on one or more of belief systems, or (3) the consideration of specific knowledge of the factors Comprehends (1) ethical and philosophical theory Has limited or restricted he five factors listed in the five factors listed in the five factors listed in history of ideas through significance of creative reasoning qualities and level 4 below to a new a personal philosophy Generalizes through a responses to historical eadership and moral creative responses to process of inductive or (5) the content of historical events and dominant ideas. isted in level 4. evel 4 below. evel 4 below. situation. of Ideas Charts in narrative or graphic societies, or (3) the effects of impact of the past in shaping across time embedded within three factors listed in level 4 level 4 below on the present. in level 4 below to show the relationships and transitions Judges the impact of one or more of the factors listed in form the three factors listed Understands the (1) origins of human society, or (2) the shaping the development of and psychological forces in economic, political, social, Western and non-Western Analyzes the roles of the contributions of religion, knowledge of the factors Has limited or restricted The Role of the Past in below when noting the literature, science, and philosophy in shaping Shaping the Present the modern world. isted in level 4. the present. the factor. and non-Western heritages philosophy of the Western Western and non-Western and history, and literature response to literature; and literary, and philosophical Documents and evaluates according to its depiction knowledge of philosophy, familiarity with historical knowledge of the factors Has limited or restricted knowingly according to luminaries, geographies, historical accounts, and Appraises literature, history, and philosophy philosophy and history texts, institutions, and qualities in literature, composition; (2) uses of Western and nonpatterns, values and Western values and Interprets literature, values and qualities. Discipline-Specific critical thinking in (1) Demonstrates (3) demonstrates through English isted in level 4. qualities. Literacy events of Non-Western Heritage from pre-colonial times to literature and traditions of The Values and Qualities and non-Western cultures her/his world view or the Knows about (1) society knowledge of the factors the context of the world knowledge listed in level and the individual in the another's world view to Has limited or restricted Evaluates and contrasts recognize and value the non-Western society, or world view of others in mpact of non-Western 4 influences the values (2) the social, political, and intellectual interaction of Western view and life choices Appraises his/her or and qualities of non-Determines how the expressed by non-Western heritage. Western heritage. listed in level 4. the present. heritage. The Values and Qualities life choices expressed by individual and society as knowledge of the factors based on the knowledge Has limited or restricted Evaluates his/her world view or the world view of others in the context of the world view and qualities and values of institutional, scientific, Western heritage from philosophical thought. another's world view of Western Heritage Knows about (1) the Appraises his/her or expressed in literary Uses the knowledge ancient times to the contributions to the shaping of Western determine how the listed in level 4 to specific situations. Western heritage. present influence interaction of the modernity, or (3) texts, or (2) the isted in level 4. and intellectual listed above. Biblical and knowledge Analyzes Applies Compre-Evaluates sizes and Knows little/no Synthe-5 Has and student

November 1, 2001 Doane College, Crete, NE Assessment Committee



Cultural Perspectives Rubric, October 9, 2001 Page 1of 2
Cultural Perspectives Rubric, October 9, 2001 Page 1of 2
Culture Itself

	Carrain Internation annual	Culture as socially-	Social Oligins of all (as a	I calladillo of callabatta
	established cultures	conditioned behavior	material basis of culture)	
-	Weighs the importance of	Comes to conclusions	Compares and contrasts how	Generates a definition of
Synthesizes	the three factors listed	regarding the interplay of the	art and culture interact in	culture.
and	below.	three factors listed below.	different societies.	Weighs the distinctive
Evaluates				contributions of various eras
				to the components of culture.
2	Analyzes the importance of	Identifies the shaping effects	Appraises how art and culture	Examines various defined
Analyzes	the three factors listed	of one or more of the three	influence one another.	cultures by components and
	below.	factors listed in level 4 below.		contributions of the cultural
				eras.
3	Chooses an appropriate	Recognizes the setting and	Demonstrates by example that (1)	Examines various defined
Applies	situation that exemplifies	context for effective use of	social context influences the content	cultures by components and
	the three factors listed	the cultural norms and	and form of ant, (z) cuital at change is influenced by and facilitates	contributions of the cultural
	below.	language impacted by	innovation in art form and content,	eras.
		political, economic, and	and (3) art influences cultural	
		religious forces (eg. gender,	identification and social position of	
		race, ethnicity, class,	individuals in relation to others (eg	
		sexuality).	gender, race, ethnicity, class,	
4	Understands (1) the benefits	Has a sense of (1) the normative	Is aware that (1) social context	(1) Defines culture, (2)
Compre-	of majority privilege, (2) the	aspects of culture, (2) the	influences the content and form of	Illustrates contributions of
hends and	origins of and differences in	political, economic, and	art, (2) cultural change is influenced	various eras to culture, and (3)
Knows	communication style, and (3)		by and facilitates innovation in art	recognizes nossible
SWOINS	the dynamics of cultural	(3) understands the influence of	forms and content, and (3) art	components of culture
	conflict.	language on reality and culture.	and social position of individuals in	components of culture.
			relation to others.	
5	Has knowledge of the three	Has knowledge of the three	Has knowledge of the three	Has knowledge of the three
Has little or	factors that is so limited	factors that is so limited that it	factors that is so limited that it	factors that is so limited that it
ou	that it cannot be used in	cannot be used in isolation or	cannot be used in isolation or	cannot be used in isolation or
knowledge	isolation or to establish	to establish connections with	to establish connections with	to establish connections with
about the	connections with other	other concepts.	other concepts.	other concepts.
concents	concents			

Faculty are not expected to address all seven columns in each Cultural Perspectives course, although some faculty may address all seven elements in Faculty teaching courses in the Cultural Perspectives category should select the element column or columns that most appropriately fit their course. one course.

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Cultural Perspectives Rubric, October 9, 2001 Page 2 of 2

Students demonstrate an understanding of the values, traditions, behaviors and philosophical foundations of diverse national and international cultures.

Evaluates the impact of diffusion, and appropriation as influenced by history, temporal sequencing, and historical legacy. Traces the innovation, diffusion, or appropriation of a cultural artifact by innovation another society. Compares the processes of diffusion, influenced by history, temporal sequencing, and appropriation as influenced by history, temporal sequencing, and historical legacy. (1) Recognizes the role of history (i.e., historical context) in shaping the context of culture. (2) Understands the temporal sequencing underlying how culture is borrowed by cocieties. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in its solution or to establish connections with other concepts.		Historical Influences on Culture	Geographical Influences on Culture	Willingness to Learn About and Experience Different Cultures
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influenced by history, temporal sequencing, and historical legacy. (1) Recognizes the role of history (i.e., historical context) in shaping the context of culture. (2) Understands the temporal sequencing underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.	Applies	innovation, and appropriation as	to each other.	below to one's own interaction with
sequencing, and historical legacy. (1) Recognizes the role of history (i.e., historical context) in shaping the context of culture. (2) Understands the temporal sequencing underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.		influenced by history, temporal		others.
(1) Recognizes the role of history (i.e., historical context) in shaping the context of culture. (2) Understands the temporal sequencing underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts. Understands the role of historical appropriation of cultures influences innovation, diffusion, and appropriation of culture. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.		sequencing, and historical legacy.		
historical context) in shaping the context of culture. (2) Understands the temporal sequencing underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.	4	(1) Recognizes the role of history (i.e.,	Understands that (1) a sense of place	(1) Recognizes the overlap or
of culture. (2) Understands the temporal sequencing underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.	Comprehends	historical context) in shaping the context	is both cause and consequence of	divergence between his/her own
(2) Understands the temporal sequencing underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.	and	of culture.	culture, (2) geography influences the	culture and other culture, (2) define
underlying how culture is borrowed by societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.	Knows	(2) Understands the temporal sequencing	amount and type of interactions	the importance of ethnocentrism and
societies. (3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.		underlying how culture is borrowed by	between different cultures, and (3) the	cultural relativism in the study of
(3) Understands the role of historical legacy in furthering or promoting cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.		societies.	extent to which proximity of cultures	culture, and (3) defines assimilation,
legacy in furthering or promoting appropriation of culture. cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts. appropriation of culture. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.		(3) Understands the role of historical	influences innovation, diffusion, and	accommodation, and amalgamation
Cumulative advantage for some cultures. Has knowledge of the three factors that is so limited that it cannot be used in solation or to establish connections with other concepts. Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts.		legacy in furthering or promoting	appropriation of culture.	among cultures.
Has knowledge of the three factors that is so limited that it cannot be used in isolation or to establish connections with other concepts. Has knowledge of the three factors that is so limited that it cannot be used in in isolation or to establish connections with other concepts.		cumulative advantage for some cultures.		
so limited that it cannot be used in isolation or to establish connections with other concepts.	5	Has knowledge of the three factors that is	Has knowledge of the three factors	Has knowledge of the three factors
isolation or to establish connections with in isolation or to establish connections other concepts.	Has little or	so limited that it cannot be used in	that is so limited that it cannot be used	that is so limited that it cannot be used
other concepts.	no knowledge	isolation or to establish connections with	in isolation or to establish connections	in isolation or to establish connections
nonnante	about the	other concepts.	with other concepts.	with other concepts.
COLICEDIS	concepts			

Doane College, Crete, NE Assessment Committee

Natural Science Assessment Kubric
Understanding of **the basic phenomena** of the natural world, **methodologies** governing the sciences, and **the relationship of both** to the world

The student uses	the basic phenomena	methodologies	
Evaluation and Synthesis	Predict and evaluate how change within a system affects that system. Evaluation example: Judge the merits of the research based on your criteria for conducting research. Synthesis example: Design an experiment to determine how much energy can be saved by using storm doors in a home in the winter.	Recognize and analyze alternative explanations and models. Evaluate the reasonableness of answers to problems by reviewing the process used to find answers and checking against typical values.	Create scientific explanations consistent with experimental and observational evidence and make accurate predictions. Create a physical, mental, or mathematical model to show how objects and processes are connected.
2 Analysis	Analyze a system to understand how things work and design solutions to problems. Example: Present evidence that demonstrates the harm that has been caused by nuclear power plants.	Formulate and revise scientific explanations and models using logic and evidence. Construct hypotheses and draw conclusions.	Research and relate the long-term societal effects of science and technology advancements. Examples of advances: germ theory, Newtonian mechanics, geologic time scale
3 Application	Apply basic scientific theories to solve similar but unique problems. Example: What is the molarity of the solutions, given their normality?	Design and conduct scientific investigations.	Demonstrate the use of empirical standards, logical arguments, and skepticism in science.
4 Comprehension and Knowledge	Knowledge of dates, events, places and major ideas. Understand the major theories in a specific discipline. Comprehension example: How can you explain the movement of the dye in the water? Knowledge example: What is the autumnal equinox?	Describe the scientific method and state the value of hypothesis testing and illustrate with an appropriate example.	Understand that knowledge of basic phenomena and methodologies about scientific and technological challenges should precede active debate.
5 Has little or no knowledge	Has limited knowledge of the factors listed in level 4.	Has limited knowledge of the factors listed in level 4.	Has limited knowledge of the factors listed in level 4.

MATHEMATICAL REASONING RUBRIC FOR DOANE PLAN

	MECHANICS	PROBLEM SOLVING
Level of	The student demonstrates an understanding	The student demonstrates the ability to use
Achievement	of the fundamental processes of mathematics.	mathematical modeling in solving problems.
	Work is always clear, easy to follow, and	Easily makes connections to other
1 Exemplary	virtually free of mechanical errors (always uses acceptable notation, is always able to perform algebraic operations on expressions containing exponents or radicals, can factor and simplify complex algebraic expressions, can solve virtually any type of equation or inequality in one and two variables)	disciplines and can apply mathematics to a broad spectrum of problems (correctly expresses mathematical ideas, is consistently able to set up and solve multi-stage problems, consistently discerns relevant patterns and determines significance of information, is able to generalize results, correctly interprets numerical, graphical, and algebraic information)
	Work is well presented, but occasionally	Is usually able to make connections between
2 Very Good	contains flaws (occasionally has difficulty with syntax or order of operations, exponents, radicals and factoring, on occasion gets lost in simplification of more complex algebraic expressions, can solve most equations and inequalities on one and two variables)	mathematics and other disciplines and can apply mathematics to many practical problems (usually recognizes and correctly expresses mathematical ideas, is usually able to set up and solve multi-stage problems, usually discerns relevant patterns and significance of information, is usually able to correctly interpret various types of information)
3 Minimally Proficient	Demonstrates a minimally adequate understanding of the fundamental processes of mathematics (work is not always well organized, sometimes has difficulties with syntax, order of operations, exponents, radicals and factoring, is sometimes unable to simplify algebraic expressions, has difficulty solving some equations and inequalities)	Knows concepts, but sometimes has difficulty applying them to practical problems (sometimes doesn't make connections or has difficulty formulating problems mathematically, sometimes gets lost in the solution of larger problems, sometimes does not correctly interpret information)
4 Substandard	Frequently commits major mechanical errors (often unable to correctly apply the fundamental processes of algebra, notation is often flawed, makes frequent errors in order of operations, exponents, and radicals, often has difficulty with factorization, simplification of algebraic expressions, and solution of equations and inequalities)	Is often unable to apply concepts to practical problems (frequently does not make necessary connections, has a great deal of difficulty formulating problems mathematically, often has difficulty determining relevance of information, often gets lost in the solution of larger problems)
5 Unacceptable	There are serious and persistent mechanical errors (typically uses faulty notation and has major difficulties with the fundamental processes of algebra; except for straight forward cases, has frequent difficulty dealing with exponents, radicals, factoring, simplifying algebraic expressions, and solving equations and inequalities)	Has frequent and persistent difficulty with application of mathematics to practical problems (has difficulty expressing mathematical ideas, frequently uses the wrong mathematical tool, usually fails to see connections, has many difficulties with problem solving, is usually unable to determine the significance of information)

Dr. Christopher Masters, Professor of Mathematics, developed this rubric. The mathematics faculty and Assessment Committee approved it. May 2002



Iliw stuce	E Sints will demonstrate the ability to speak, listen and interpret	Co. listen and interpret meanings effec	Communication Rubric meanings effectively. (There is a separate rubric for writing. Reading is not included in this rubric.)	for writing. Reading is no	ot included in this rubric.)	
tudent	Coding Skills* +	Listening Skills +	Public Speaking Skills	Small Group Skills**	Interpersonal Skills***	
Synthesizes and Evaluates	Produces own communication performance according to appraisal of effective verbal and	All of Level 2 plus: Synthesizes and evaluates by drawing logical inferences and conclusions; and employs	Recognizes, interprets, and utilizes audience feedback to evaluate the effectiveness of the speech in achieving its	Selects and integrates a variety of strategies and appraises the outcomes.	Reflects on effectiveness of interpersonal communication strategies and modifies these accordingly.	
	nonverbal communication coding acts.	active listening techniques including formulating questions that clarify or qualify the speaker's content.	stated purpose, and adjusts all elements in levels 2-5 to achieve that result.			
2 Analyzes	Contrasts own communication performance	All of level 3 plus: Distinguishes between	Incorporates effective transitions among	Identifies hindrances and aids to small group	Adapts interpersonal communication according to	
Alternative Strategies	with effective models of verbal and nonverbal	emotional and logical statements and detects bias and	components named in level 3 and supports arguments with	consensus.	the other individual in dyad.	
)	communication coding acts.	prejudice.	relevant and adequate evidence.			
3 Applies	Includes verbal and nonverbal coding skills in	All of level 4 plus: Perceives speaker's purpose	Uses basic reasoning to formulate a clear thesis	Selects and implements the most effective small	Implements interpersonal communication strategies to	
15	speech communication acts.	and attitude, and discriminates between facts and opinions.	statement, and develop and structure the beginning, main body, and conclusion.	group skills to achieve the communication purpose.	achieve the communication purpose.	
4	Identifies the four verbal and	Recognizes and makes	Recognizes basic reasoning,	Recognizes and	Recognizes and illustrates five	
Recognizes Importance and Makes	four nonverbal coding skills as listed below.*	distinctions among the four listening skills listed below. *****	and utilizes beginning, main body, and conclusion.	illustrates the seven small group skills listed below. **	inter-personal communication skills.***	
Distinctions						
5	Has limited ability to identify	Little or no recognition and	Does not discern the	Has limited ability to	Has limited ability to employ	
Recognize	tne rour verbal and rour nonverbal coding skills as	recall of the four listening skills listed below.	importance of the beginning, main body, conclusion or	accurately identify small group skills listed	the five listed interpersonal communication skills.	
•	listed below.*		basic reasoning.	below.**		

appropriate levels of abstraction and generality; and (4) uses the language artistically. Four nonverbal coding skills: (1) uses tone, emphasis, and pauses; (2) uses posture, gesture, an expression; (3) considers interpersonal distance; and (4) considers clothing and ornamentation in relation to message and context. (Nonverbal coding includes use of multimedia * Four verbal coding skills: (1) values and uses standard grammar, and pronunciations; (2) values and uses technical vocabularies, slang, idioms, and regional dialects; (3) uses presentations, visual aids, and other artifacts.)

** Small group skills include the ability to : (1) understands and implements different methods of building small group consensus, (2) motivates all to participate and work effectively

eam; (3) manages and resolve group conflicts or misunderstandings effectively; (4) forms interpersonal connections with group members; (5) shares leadership with group members; encourages expression of different views and opinions; and (7) adapts to people from other cultures, organizations or groups.

*** Interpersonal skills include the ability (1) to adapt communication to interpersonal needs; (2) to adapt communication to cultural environment; (3) to recognize the unique element: communication in relationships; (4) to manage conflict for positive outcome; and to give and receive compliments and constructive criticism. ***** Four listening skills include the ability to: (1) recognize and recall main ideas; (2) give accurate behavioral response to instruction; (3) recognize some relationships among idea: ^Faculty teaching courses in the Communication category should select the element columns that most appropriately fit their course. Faculty are not expected to address al recognizes need to attend to communication with an open mind; and (4) perceive a need to determine speaker's purposes and attitudes

^Synthesized from work of the National Communication Association by Doane College Communication faculty and Assessment Committee members. five columns in each Communication course, although some faculty may address all five elements in one course.

+ Coding and listening skills are applied in the context of public speaking and small group and interpersonal communication. 4-17-02

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	Structure	Content	Mechanics
Superior	Clear beginning, development, and conclusion	Appropriate length to cover topic	Correct sentence structure
or	Appropriate paragraphing	Clearly and coherently focused (including a good	Correct spelling
Strongly	Ciear and appropriate transitions	Theoretic closely presented	Correct punctuation
Аотее		Thoughts creatly organized and presented	Collect capitalization
22181		Logical and clear progression	Correct usage
,		Assertions clearly supported and/or illustrated	Appropriate word choice
_		Sufficient and appropriate details to provide	
	The second secon	evidence	
Very Good	Generally clear beginning, development, and	Appropriate length to cover topic	Generally free of errors in
or Agree	conclusion	Clearly and coherently focused (including	Sentence structure
)	Generally appropriate paragraphing		Spelling
	Generally clear and appropriate transitions	Thoughts generally organized and presented	Punctuation
7		Generally logical and clear progression	Capitalization
		Assertions generally supported or illustrated	Usage
		Generally sufficient and appropriate details	Word Choice
Adequate	Adequate beginning, development, and	Adequate length to cover the topic	Relatively few errors in
or	conclusion	Adequately focused (including some sense of	Sentence Structure
Neutral	Adequate paragraphing	audience)	Spelling
Iventai	Adequate transitions	Thoughts adequately organized and presented	Punctuation
(Adequate progression	Adequate progression	Capitalization
٠		Assertions adequately supported and/or illustrated	Usage
		Some details to provide evidence	Word Choice
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Fair or	Weak beginning, development, and conclusion	Not adequate length to cover topic	Significant errors in
Disagree	weak paragraphing	Weakly rocused (little sense of audience)	Sentence Structure
	weak transitions	Tradice and crearly organized	Spelling/punctuation
4		Associations associated and/or illustrated	Capitalization
		Insufficient and inappropriate details	Osaged wold choice
		4	
Not	Senous and persistent errors in organizational	Not found (no some of antions)	Serious and persistent errors in
Adequate	structure and paragraphing	Thou to conser (iii) selise of audicines)	Sentence structure
or		Unolganized Faulty reasoning	Spennig/punctuation Capitalization
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Disagree		no supporting evidence	Usage/wold choice
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Revised from Todt, Hamilton, Huang, Lorentz, and Kunkle, 1998, NCA Collection of Papers.



Health and Well-Being Rubric
The student will demonstrate an understanding of health and lifetime fitness.

Student	Health-related Fitness
1	Maintains, evaluates, and revises a plan for lifelong health that
Synthesizes and	incorporates all five factors listed in level 4.
Evaluates	·
2	Appraises his or her health and fitness based on the five factors
Analyzes	listed in level 4.
3	Is able to apply the five principles listed below to establish a
Applies	program to achieve and maintain life-long health and fitness
4	Understands the benefits of
Comprehends and	Cardio-respiratory endurance,
Knows	Muscular strength and endurance,
	Flexibility,
	Body composition, and
	Nutrition
5	Knowledge of the five factors listed above is so limited that it
Has little or no	cannot be used in isolation or to establish lifelong health.
knowledge about the	·
concepts	

First draft, May 2002 by David Dunnigan, Assistant Professor of Physical Education.



The Community and Leadership Rubric

The student demonstrates an understanding of constructive leadership and ethical decision making

Synthesizes and Evaluates effective to least effective in campus or internship/career setting; and Designs strategies to strengthen community and resolve challenges in workplace, recreation, or public venues. Analyzes During internships or similar experiences, identifies components of community in business or career setting; and Engages in dialogue with community participants to raise questions and deliberate about existing challenges as part of the decision-making process. Applies principles of community engagement to residential setting and broader campus community; and Attends a variety of campus events. Knows and Participates in learning in the classroom community; and community; and Gathers facts about existing challenges.	ost y	Reflects on successful use of leadership, Affirms values of all community members, and Seeks the voice and contribution of members diverse by race, ethnicity, gender, language, religion, sexual orientation, and socio- economic status. Contrasts impact of one's own leadership strategies by setting or strategy. Analyzes strengths and weaknesses of community members	Connects knowledge, skills, and values developed in Doane courses and experiences to culminating service learning and other internship projects. (a) Displays sociocultural consciousness, and describes different ways of perceiving reality according to context; and (b) Recognizes institutionalized bias of race, ethnicity, gender, language,
Designs strategies to strengthen and resolve challenges in workpl recreation, or public venues. During internships or similar expidentifies components of commu business or career setting; and Engages in dialogue with commu participants to raise questions an about existing challenges as part decision-making process. Applies principles of community to residential setting and broader community; and Attends a variety of campus ever Raticipates in learning in the clascommunity; and Gathers facts about existing chall Gathers facts about existing chall	y ite	diverse by race, ethnicity, gender, language, religion, sexual orientation, and socioeconomic status. Contrasts impact of one's own leadership strategies by setting or strategy. Analyzes strengths and weaknesses of community members	learning and other internship projects. (a) Displays sociocultural consciousness, and describes different ways of perceiving reality according to context; and (b) Recognizes institutionalized bias of race, ethnicity, gender, language,
During internships or similar exp identifies components of commu business or career setting; and Engages in dialogue with commu participants to raise questions an about existing challenges as part decision-making process. Applies principles of community to residential setting and broader community; and Attends a variety of campus even Participates in learning in the clast community; and Gathers facts about existing chall Gathers facts about existing chall	lte	Contrasts impact of one's own leadership strategies by setting or strategy. Analyzes strengths and weaknesses of community members	(a) Displays sociocultural consciousness, and describes different ways of perceiving reality according to context; and (b) Recognizes institutionalized bias of race, ethnicity, gender, language,
participants to raise questions an about existing challenges as part decision-making process. Applies principles of community to residential setting and broader community; and Attends a variety of campus ever Attends a variety and Participates in learning in the clascommunity; and Gathers facts about existing chall	tions and deliberate		(b) Recognizes institutionalized bias of race, ethnicity, gender, language,
Applies principles of community to residential setting and broader community; and Attends a variety of campus ever Participates in learning in the clacommunity; and Gathers facts about existing chall	s as part of the		religion, sexual orientation, and socio- economic status.
	engagement campus its.	Demonstrates leadership skills: Develops vision and goals for future improvements Selects appropriate leadership style to achieve	Implements service learning project in a new setting in order to broaden one's understanding of own role with diverse individuals and events.
 		goals Demonstrates collaborative skills Describes skills for dealing with conflict	
		Names steps in the change process; Identifies barriers to change;	Accepts and completes the assigned service learning project with the classroom community; and
			Works with a diverse team in a diverse setting.
Has little Completes individual tasks with ov	own needs and	Does not display leadership skills or does not	Leaves all or parts of the service
knowledge requirements fultilled or some or a incomplete.	all tasks	utilize them in an ethical manner.	learning requirement incomplete or inadequately fulfilled.

October 24, 2002



Liberal Learning Rubric (Draft December 2002)

Students demonstrate an ability to appreciate and explore new areas of learning.

Liberal	Fundamental	Discipline-	Value of	Applications of
Learning	Concepts	specific	interdisciplinary	interdisciplinary
	of the	learning	and	and multi-
	disciplines		multi-disciplinary	disciplinary
			approaches and	approaches and
•			concepts	concepts
Synthesizes and evaluates	Evaluates the concepts and scopes of the disciplines	Evaluates information through the filter of discipline- specific learning	Appraises the value of interdisciplinary and multidisciplinary approaches and concepts	Creatively compares and contrasts the uses and applications of interdisciplinary and multi-disciplinary approaches and concepts
Analyzes	Appraises the concepts and scopes of the disciplines	Understands the meaning and use of discipline- specific learning	Recognizes and interprets the value of interdisciplinary and multidisciplinary approaches and concepts	Weighs the uses and applications of interdisciplinary and multi-disciplinary approaches and concepts
3 Applies	Demonstrates applications of the concepts and scopes of the disciplines	Demonstrates applications of discipline- specific learning	Demonstrates knowledge of the value of interdisciplinary and multi-disciplinary approaches and concepts	Uses and applies interdisciplinary and multi-disciplinary approaches and concepts
4 Comprehends and knows	Understands the concepts and scopes of the disciplines	Displays and understands discipline- specific learning	Understands the value of interdisciplinary and multi-disciplinary approaches and concepts	Displays moderate ability to apply interdisciplinary and multi-disciplinary approaches and concepts
Has little or no appreciation or understanding of new areas of learning	Has little or no knowledge about the concepts and scopes of the discipline	Displays little or no knowledge related to discipline- specific learning	Displays little or no knowledge of the value of interdisciplinary and multi-disciplinary approaches and concepts	Has limited ability to apply interdisciplinary and multi-disciplinary approaches and concepts





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November 4, 2002

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Sincerely

Linda M. Kelly
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