

Fig. 6a; Lattice holes
by coprecipitation
with BaSO_4



Every year on Sunday in the middle of January...
people cancel all events, plans or work to watch the game
audience includes (little boys and girls, old people, men)
Many reasons have been given to explain why it has become so popular the commercial (sports cost nothing)
One explanation is that people like to take sides, and another is that some people like the publicity an event. These reasons alone, however, do not explain the Super Bowl.



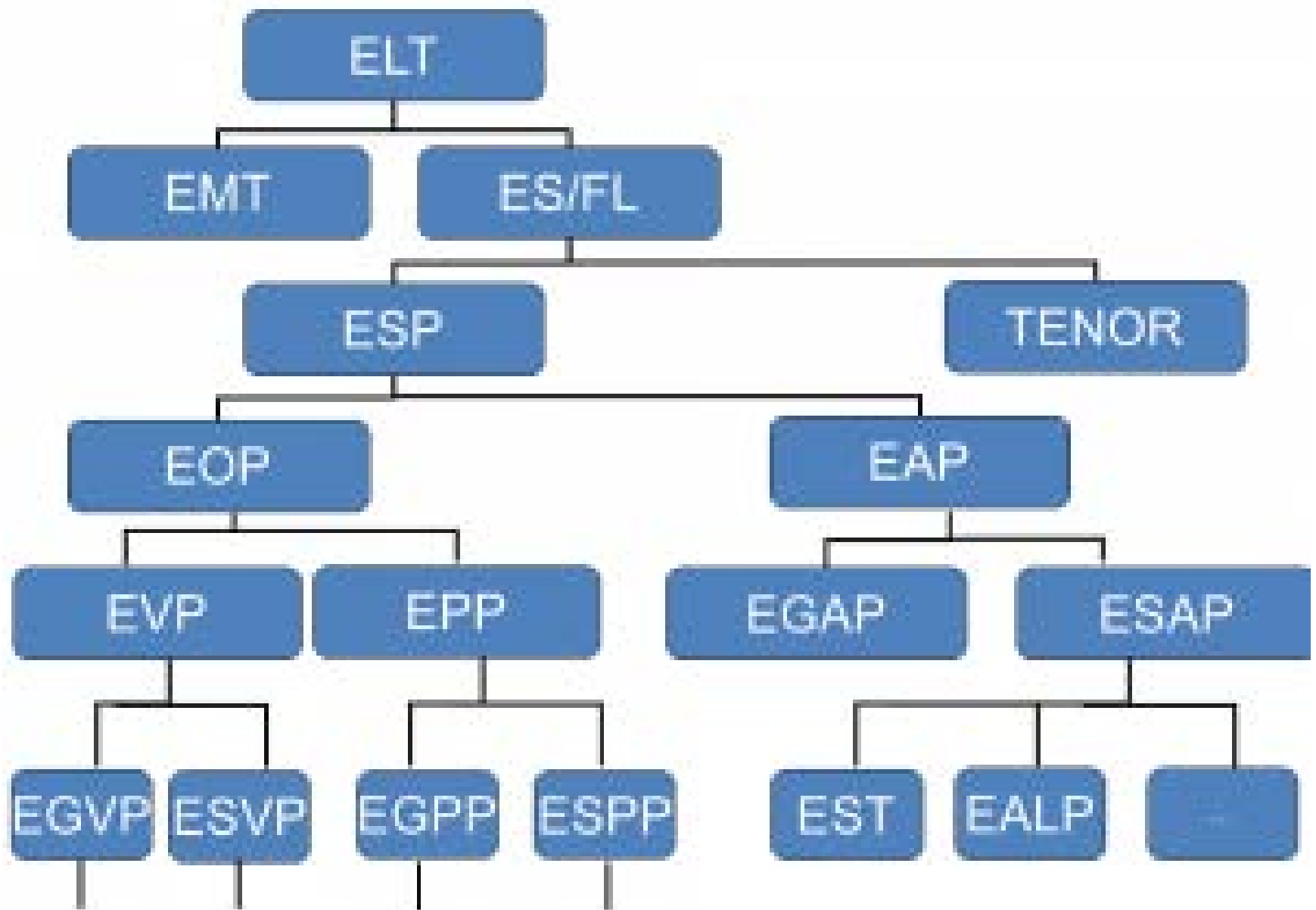
His death is a Tragedy + An ~~loss~~ to his family and ~~the community~~ ^{Criminal Act} ~~the community~~ ^{Crime} + the ~~act of the~~ ^{life} brings shame to an ~~aspect of~~ ^{aspect of} non-Vietnam ~~the~~ ^{the} Vietnam ~~of~~ ^{of} Vietnam. ~~which he~~ ^{which he} ~~marshaled~~ ^{marshaled} and ~~find~~ ^{find} new strength ~~of~~ ^{of} discrimination, ~~peace~~

Writing-Enriched Curricula: Changing Faculty Approaches to Writing Instruction

Writing Across the Curriculum:	WAC
Writing in the Disciplines:	WID
Writing-Enriched Curriculum:	WEC

ELT: CUHK
May 27, 2019

Pamela Flash, University of Minnesota
flash@umn.edu / <http://wec.umn.edu>



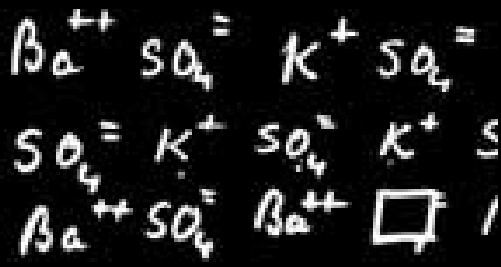
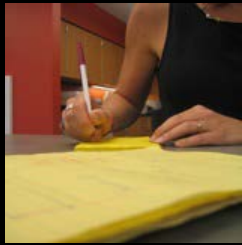


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His death is a Tragedy + An ~~loss~~ to his family and ~~the community~~ ^{Criminal Act} ~~the community~~ ^{It's not just a game + the life brings shame to an aspect of non-Vietnam the Vietnam & Vietnam.} which he marched and find new strength of discrimination, peace

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Growing up
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Growing up parents teach their kids "two wrongs do not equal a right"

lesson is taught to inform children that doing a wrong deed back to someone is not right. Native Americans today face criticism for the fact that they have casinos on their reservations. Critics of the casinos believe that the government is the one trying to make "two wrongs into a right." First, the government takes the land from the Native American people and now they want to allow casinos to be built on reservations. Some Americans are jealous of some of the Native American casinos and this jealousy has led to all of the controversy about casinos, one thing is certain that the Native Americans were unjustly treated during the early establishment of settlers. Having North American continent before 1600, today Native Americans live on reservations spread out across the United States. These reservations do not amount to the land they had before the settlers came. The government of the United States continues to allow Native American reservations to provide casinos to them, they are beneficial to both parties as is evident by providing job opportunities and rebuilding the Native American culture.

Handwritten notes:
 - Commas
 - ANK
 - D.O. Sent
 - BES
 - WORD CHOICE
 - SOURCE?
 - accuracy?
 - WORDINESS
 - What do you mean here?
 - How? in Wh



“I’m a scientist. I teach science; it’s not my job to teach *writing*.”

“These students should know how to write before they get to my class.”

“Supporting effective writing sounds fine...but not in my class. I have way too many students!”

“I’m an **engineer**. I teach **engineering**;
it’s not my job to teach *writing*.”

“These students should know how to
write before they get to my class.”

“Supporting effective writing sounds
fine...but not in my class. I have way
too many students!”



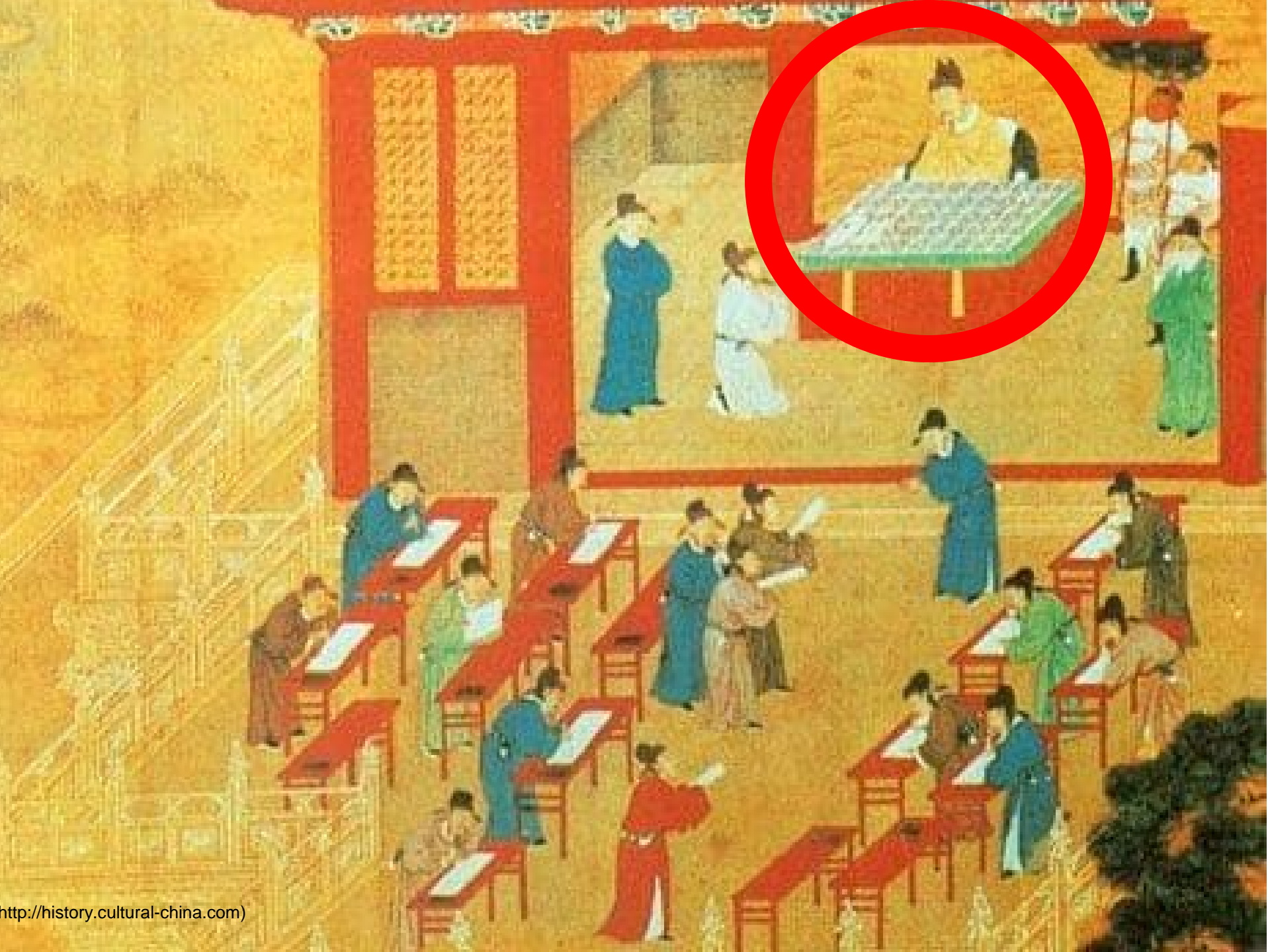
“I’m a **historian**. I teach **history**; it’s not my job to teach *writing*.”

“These students should know how to write before they get to my class.”

“Supporting effective writing sounds fine...but not in my class. I have way too many students!”







WRITING ACROSS THE CURRICULUM (WAC)

1. Writing is an expression of thinking and a tool to learning.
2. Writing involves choosing among an array of modes or forms, only some of which involve words.
3. Writing abilities are continually developed rather than mastered.
4. Writing instruction (teaching *with* writing) is a shared responsibility across all academic disciplines.
5. Those who infuse writing instruction into their teaching require ongoing, partnered support.



Map of the Eastern Mediterranean region showing the Aegean Sea and surrounding landmasses.

Culture

- . Homogenous culture
- . Uniformity of pottery through
- . Period of economic prosperity
- . Agriculture: principle crops in barley and wheat

Why did the Mycena

Dr



- . Theorized drought match drou
- . Studies on pollen grains in sur for drier olimate
- . Lack palaeoclimatic records ar
- . Analyses of lake sediments fro reetly oorrelated to the Medite

ifference



nan, Maren Haaz, Lauren Sampedro

collapse



transactions of the time

Internal Unrest



WRITING ACROSS THE CURRICULUM (WAC)

writing support

- consultations
- support materials

graduation requirements

- first-year writing
- writing-intensive courses
- senior project

instructional support

- workshops
- discussions
- consultations
- materials



Threats to sustained programmatic vitality in WAC



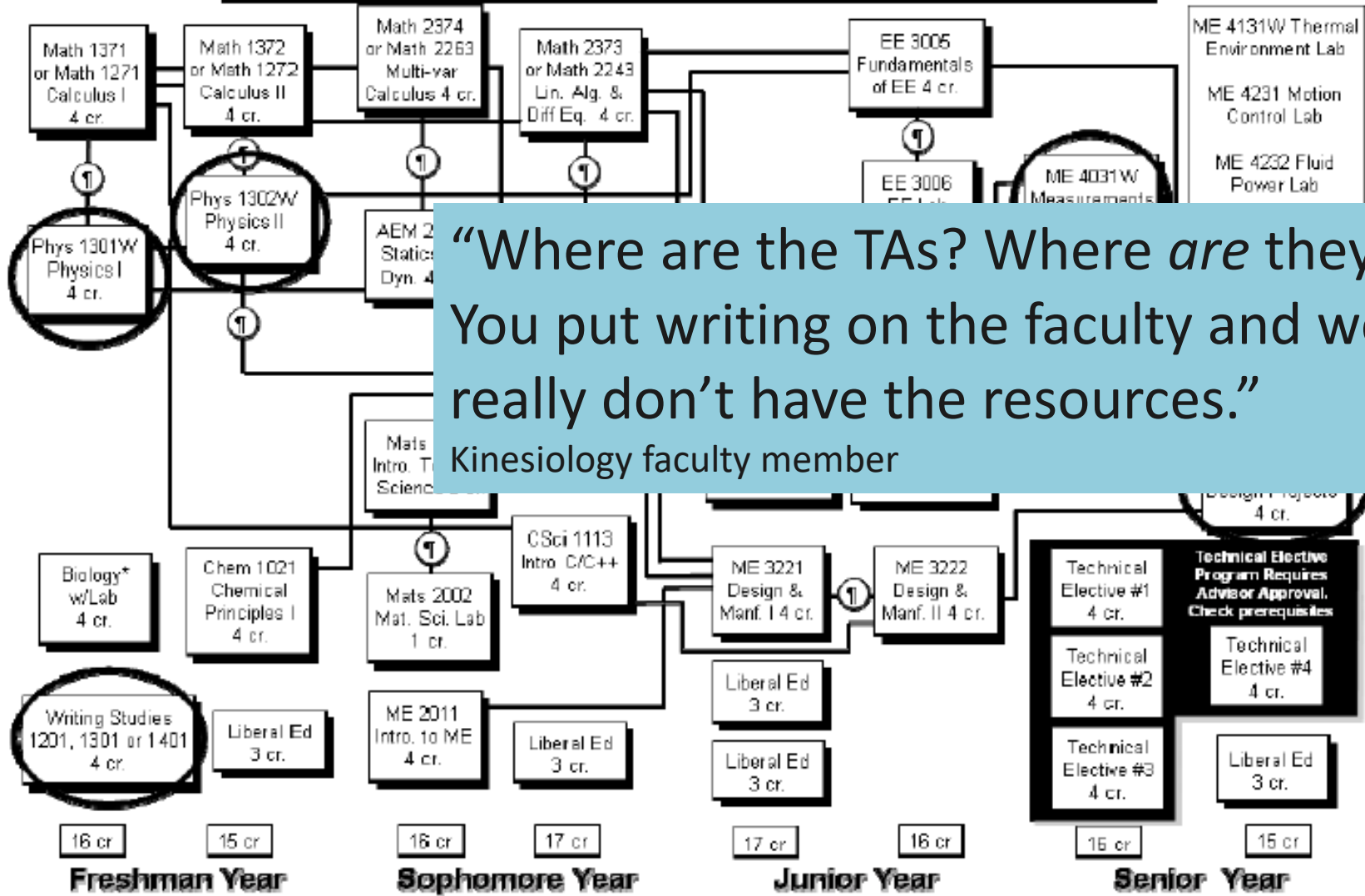
- Faculty resistance
- Focus on individual courses (rather than curricular systems)
- The “myth of transience” (Russell 2002)
- The “danger of innovations set adrift” (White 1990)
- Administrators charged with cutting costs
- Lack of direct assessment

2001-2006: University of Minnesota focus group findings

Del 2 of 2

University of Minnesota — Mechanical Engineering Curriculum

09/13/07



“Where are the TAs? Where *are* they? You put writing on the faculty and we really don’t have the resources.”
Kinesiology faculty member

*Must be taken A/F. Strongly encourage Biol. 1009

Total number of credits for graduation: 128

⌚ Indicates concurrent registration accepted

should slow down or even abandon efforts to foster global democratization. Robert Kaplan, in

- Narrow definitions of academic writing
- # roadblocks of 3 sorts
- The supposition that language, genres, grammar, or discourse are

Systemic

Course-based vs. curriculum-based focus

Uneven compliance with WI requirements

Inadequate funding for TA support

Conceptual

Narrow definitions of academic writing; assumptions of genre stability

Constrained conception of writing instruction

Perception of writing and content as discrete instructional areas

Attitudinal

Resistance to course or curricular “add-ons”

Disappointment with writing

Pedagogical uncertainty

- Disappointment with writing
- Perception of writing and content as discrete instructional areas

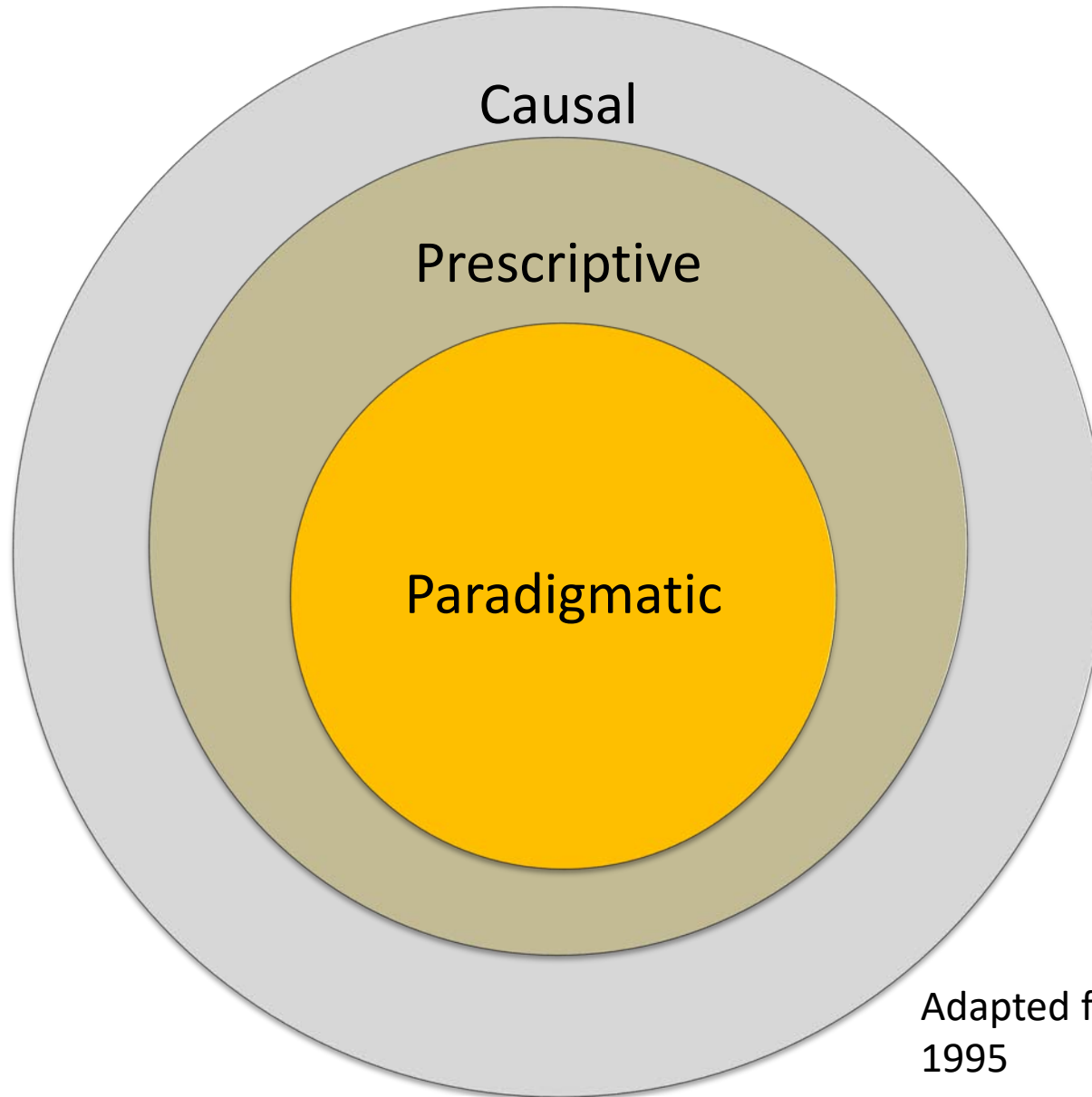


“I’m a scientist. I teach science; it’s not my job to teach *writing*.”

“These students should know how to write before they get to my class.”

“Supporting effective writing sounds fine...but not in my class. I have way too many students!”

Assumptions affecting pedagogic change



Adapted from Brookfield,
1995



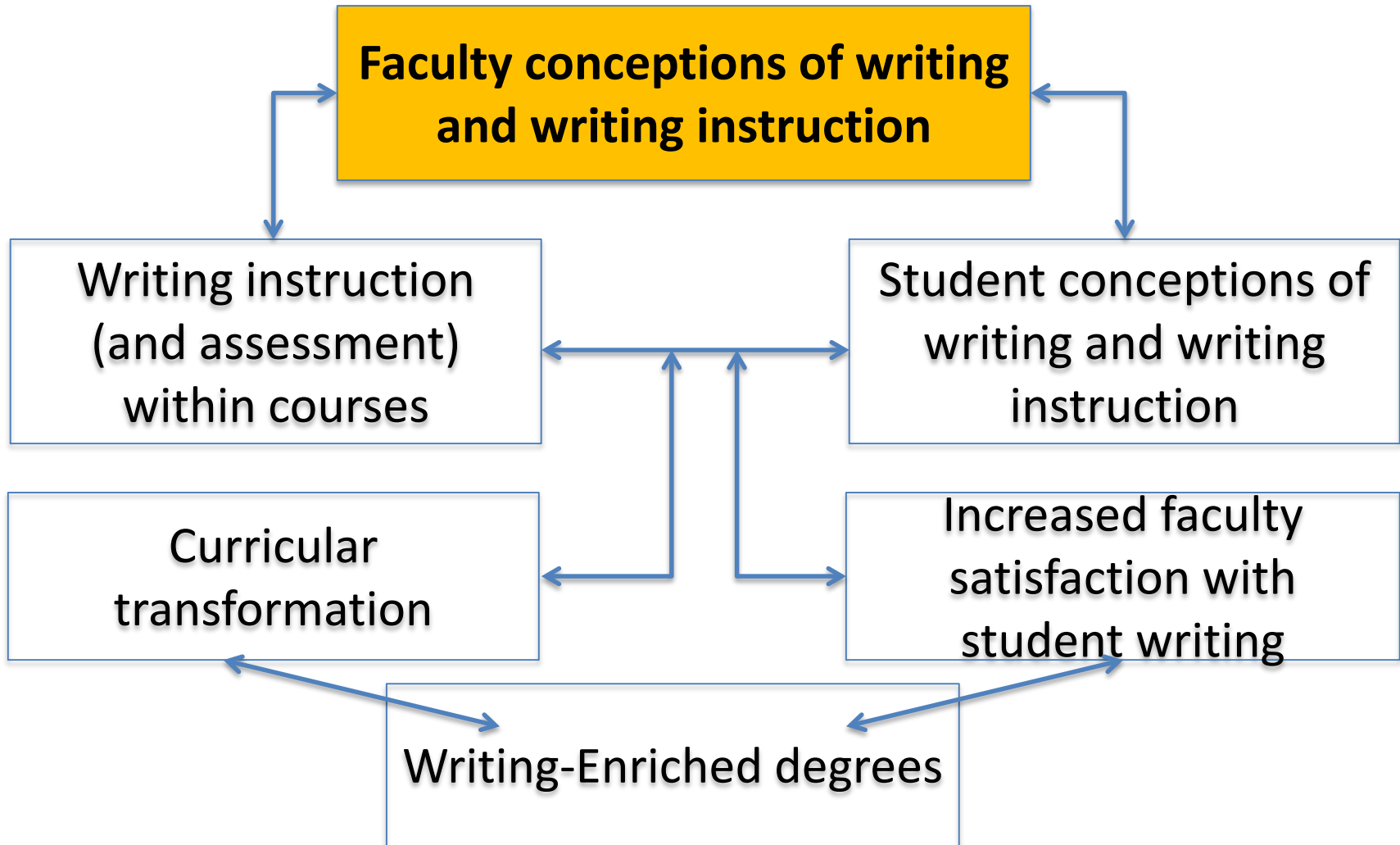
Question: How can we ensure an intentional and sustainable infusion of relevant writing instruction into diverse undergraduate curricula?

Answers:

- Put change in the hands of unit faculty
- Engage faculty in an ongoing process of unearthing, interrogating, implementing, and assessing discipline-specific writing values, practices and expectations
- Offer long-term customized partnership and support

2006

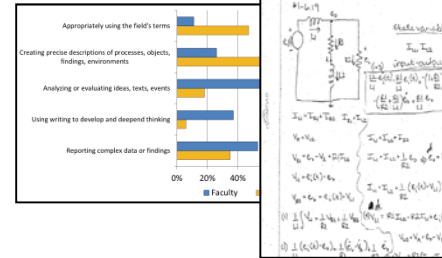
WEC



UNDERGRADUATE WRITING PLANS

SECTION I: WRITING CHARACTERISTICS

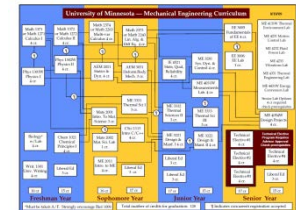
Meeting #1



SECTION II: WRITING ABILITIES?

SECTION III: CURRICULAR SEQUENCING?

Meeting #2



SECTION IV: ASSESSMENT?

Meeting #3

Writing Plan Ability	PROPOSED Criteria for Writing
1. Communicate information in a manner that is short and logical.	41. Communicates a scientific narrative that is short, with an overview of the problem and goal.
2. Communicate information in a manner that is precise and	42. Research information closely and read.
3. Report and interpret data in context.	43. Situates target information gaps in the context of what is already known and what is not yet known.
4. Synthesize ideas in new ways.	44. Synthesizes information from a variety of sources.
5. Analyze and interpret published work, judging the efficacy of evidence.	45. Critiques reasoning, data, and/or methodologies of published work.
6. Identify a significant gap in scientific knowledge and describe research questions to address those gaps.	46. Demonstrates an organization that makes them an articulation of the target question or problem to generate, data, conclusions, and back to target problem.

SECTION V: SUPPORT?

Meeting #4



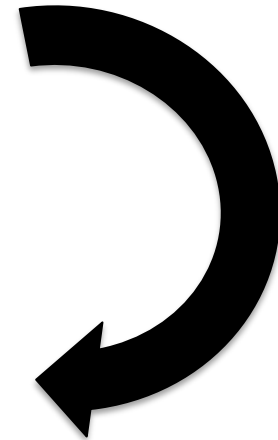
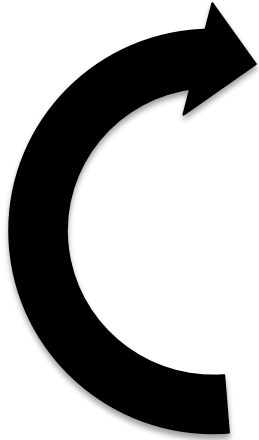
create



implement



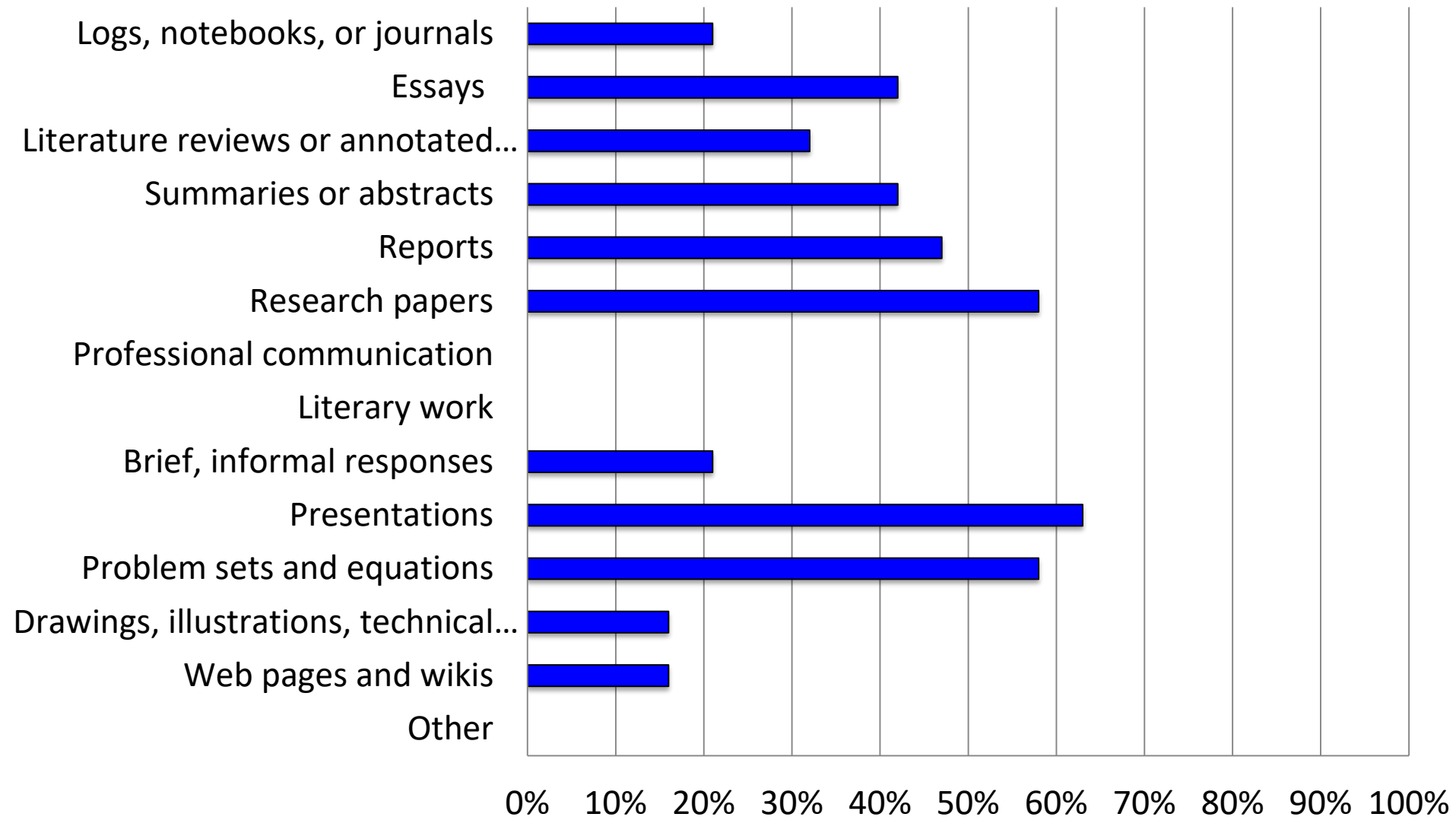
assess



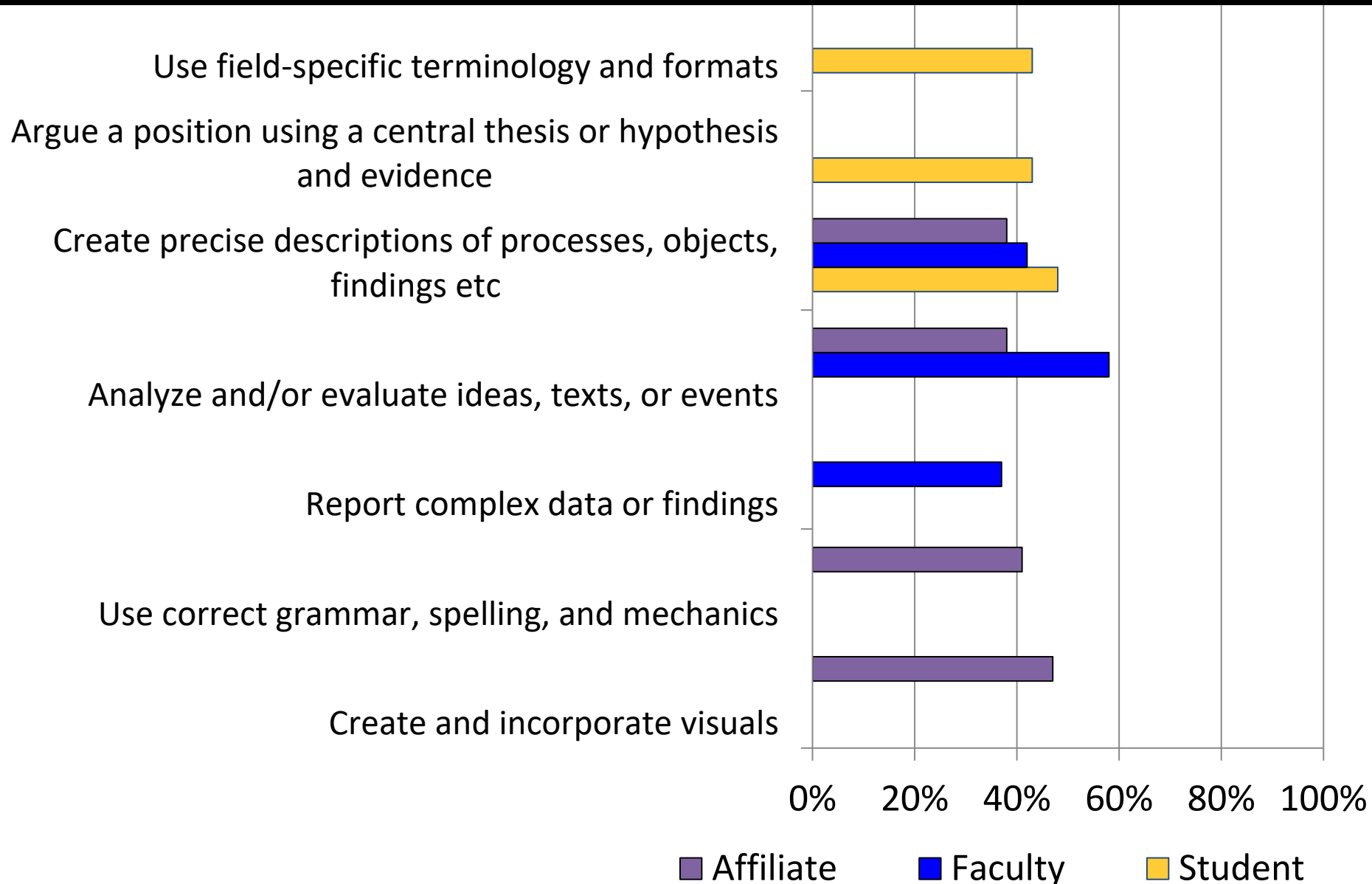
WEC Locus: academic departments



Which of the following **writing assignments** have you incorporated in any of the academic major courses that you have taught within the past year? (Earth Science)



Which three writing **abilities** are most important in this major? (Earth Science)



Analyze



Pursue a focused and feasible research question
(Geography)

Examine empirical data using qualitative and quantitative methodologies and/or theoretical lenses (Sociology)

Report unanticipated or contradictory findings (Physics)

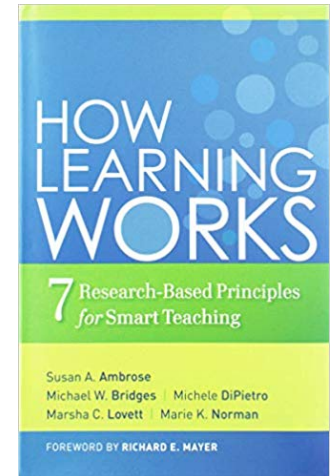
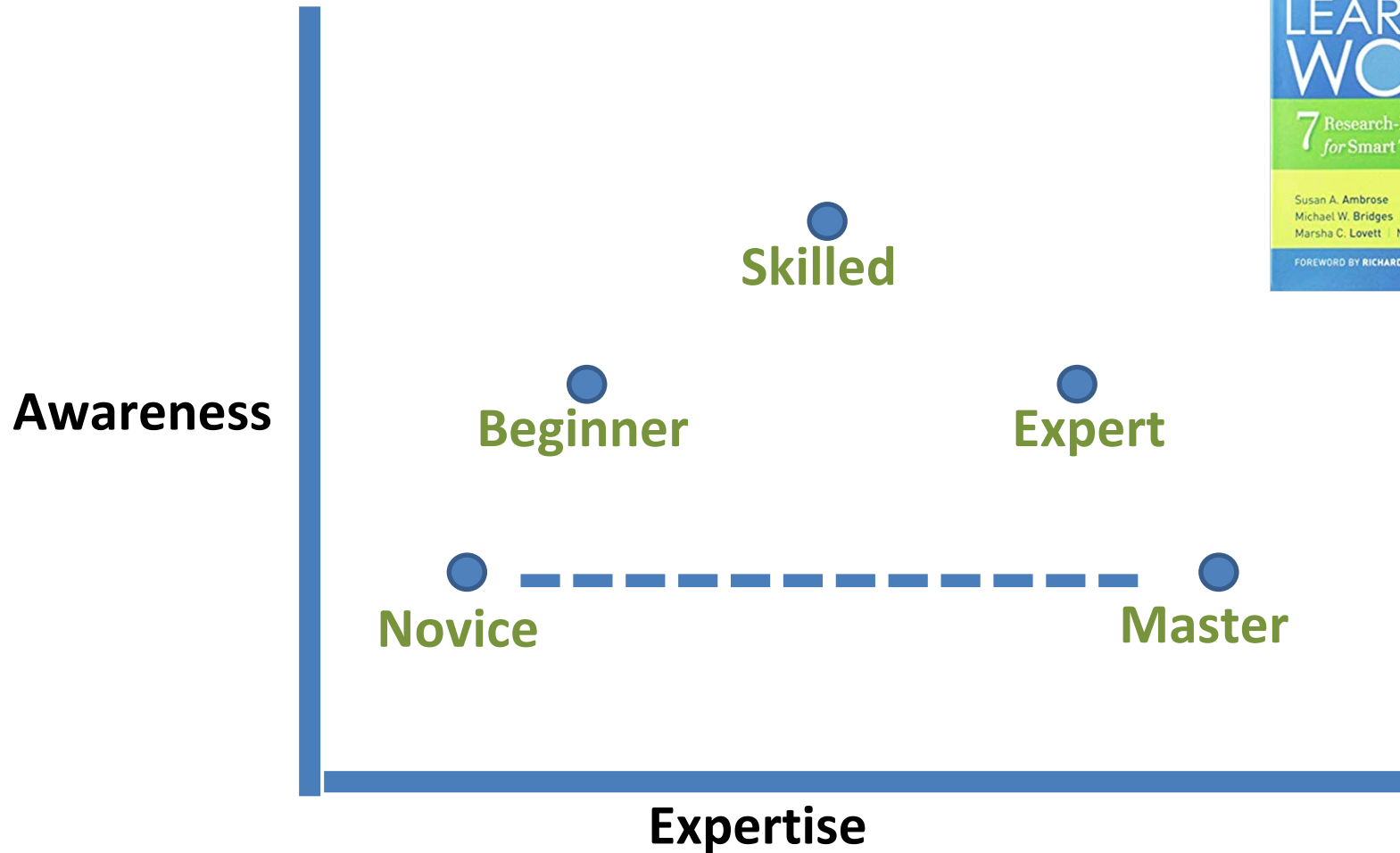
Scrutinize texts for gaps in theoretical application (Literature)

Explicate the logic (Philosophy)

Contextualize the art object by explicating its geographic, historic, cultural, and economic circumstances
(Art History)

Development of Mastery

Sprague and Stuart (2000)





<https://eradica.wordpress.com/2014/04/19/jumping-the-gap/>

Department of Ecology, Evolution, and Behavior: M1

SH: One thing we haven't talked about is **objectivity**—*the opposite of expressing feelings, which we didn't select as one of the abilities we value, but I think that is meaningful because we want the opposite of that; that's what we strive for.*

SL: *And it is one of the things I certainly respond most vitriolically to when I get something to read and it's all about "I did this..." and "I thought this..."*

SH... *ugh...it makes your skin crawl. [1:41:50]*

PF: So how would you describe this? *Because if you say "objective," no one really knows what that means, do they?*

SL: *They don't? Why don't they?*

SH: Remove the writer out of it...*They often say "Shaw et al. said this" and the emphasis is on Shaw et al. rather than the result or the finding...*

PF: So, you want them to deemphasize the scientists and focus on the science, but... do students in your courses run the danger of accepting the science they report as Truth?

SH: Well, I think the difference is **replicability**; that, uh, if someone else came along and did the exact same study that so and so described that they did they should have gotten the exact same results. So I see scientific writing as not so egotistical...it's **contributive**.

JC: *That's a bunch of crap. You're mixing undergraduate and graduate writing. Replicable yes, contributive no...*

EARTH SCIENCES

Prof A: Well, it should be clear! We want them to be able to explain in words the meaning of data and figures....really, to make them understandable to a reader who does not have the data or figures.

Prof B: They... should, uh... summarize and *synthesize* observations, data, and information in abstracts or executive summaries. But first in visuals...

Prof C: Right...they...should know how to represent concepts and findings...design and create figures, graphs, and diagrams

From criteria menu:

The text...

Explains the meaning of data and figures so that they are understandable to someone who does not have the data or figures.

Communicates information, data, and concepts in figures, graphs, and/or diagrams clearly with complete captions.

Communicates information, data, and concepts in figures, graphs, and/or diagrams clearly without extraneous or distracting elements.

Writing? Content?

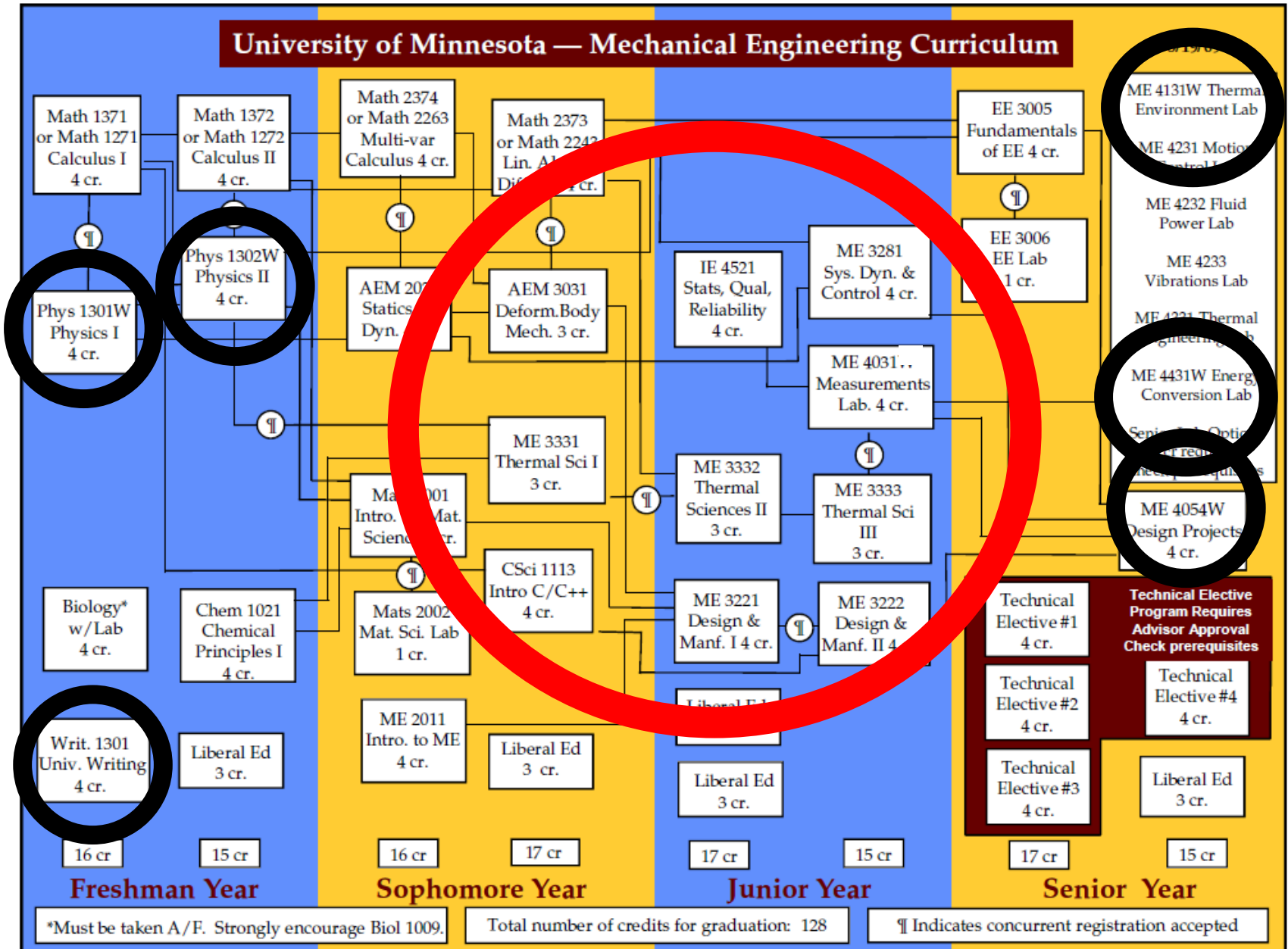


<https://news.yale.edu/2017/04/24/yale-s-newest-stem-labs-teaching-takes-bold-step-forward>

“Wait...Is this writing abilities, or is this about how to do the science? I think we’re messing this up a little bit here...I mean we think science is important but writing about it is a different thing.”

“But, X, we make them write about the science...we’re the ones!”

University of Minnesota — Mechanical Engineering Curriculum

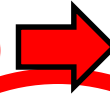


Computer Science pre-WEC curriculum

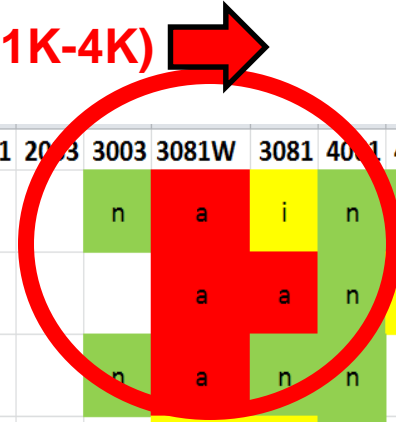
List of expected writing abilities



Courses (1K-4K)



Number	Ability	1901	1902	2011	2013	3003	3081W	3081	4001	4061	4061	4211	4211
1	Describe software or system processes accurately, clearly and illustratively, using appropriate structures.	n	n			n	a	i	n	n		i	i
2	Provide low-level code explanations such as comments accurately, concisely, and informatively.	n	i				a	a	n	i	i	i	i
3	Describe algorithms accurately and concisely, with appropriate structure, and appropriate balance between high-level characteristics and low-level details.	n	n			n	a	n	n		i,a	i	i
4	Write for specific audiences with appropriate tone, level of explanation, and accessibility.	n	n				i	i	n		i,a	n	n
5	Use appropriate structures (e.g., lists, visuals) cite appropriately, and integrate into the text.	n	n	n			i	i	i	n		i	n
6	Justify choices of design, algorithms, etc. persuasively, clearly explaining the	n	n			n	i	n	i	n		i	n



“Writing transfer is the phenomenon in which new and unfamiliar writing tasks are approached through the application, remixing, or integration of previous knowledge, skills, strategies, and dispositions.”

(Elon statement 2013)

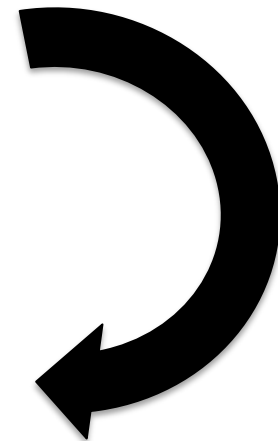
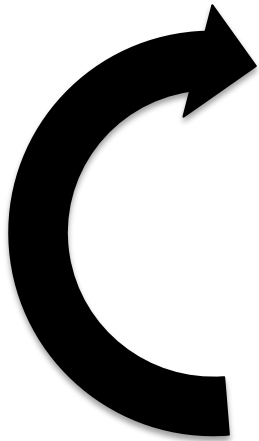
create



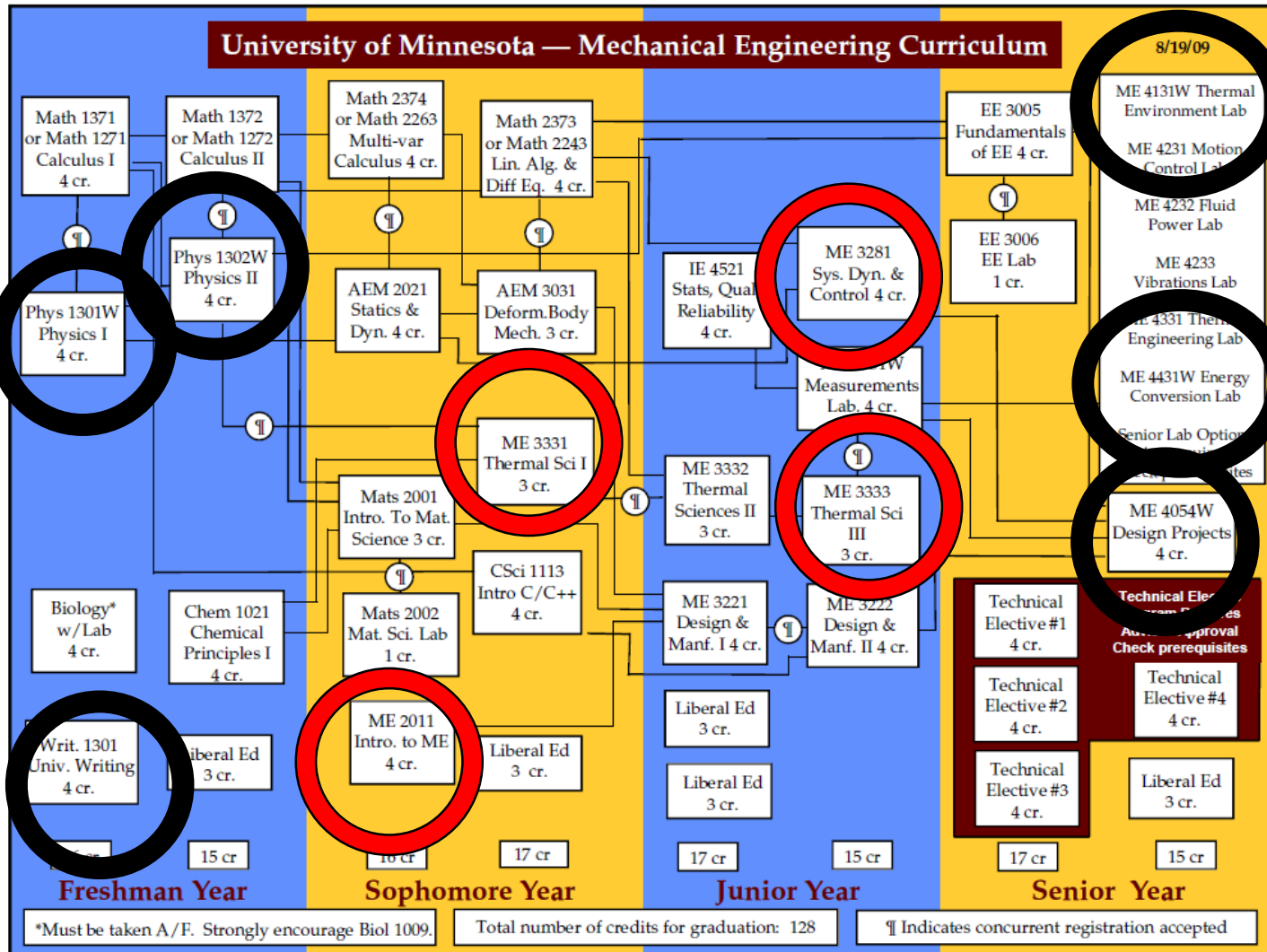
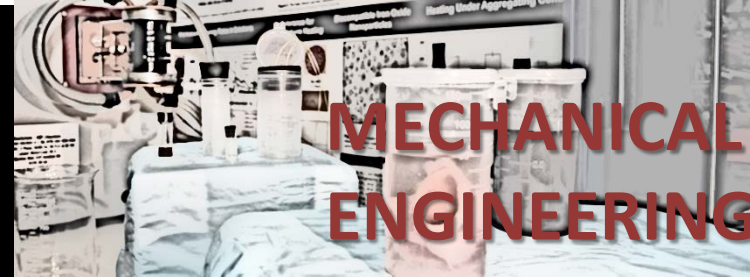
implement



assess



Implementation case study #1



MECHANICAL ENGINEERING

Student Writing Guide



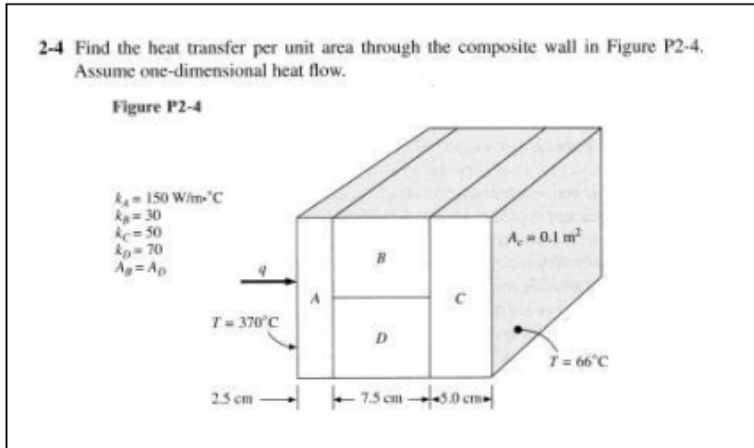
This guide will show you how to write a problem set.

1. Before you begin

If you understand the purpose of your writing before you begin, your problem set will turn out better. This section describes background information and the purpose of a problem set.

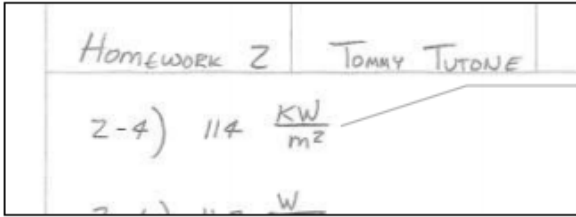
1.1 Why this is important

You will come across problems such as the following very often in your mechanical engineering coursework:



Source: Holman, J. (2010). Heat Transfer 10th Edition

However, the very **worst** answer you can submit to a homework problem is:



Numerically correct, but no logic shown. (few pts)

The reason is that the grader doesn't care what your answer to the problem is. Instead, the grader wants to know the logical thought process you used to get there.

In engineering practice, problems are seldom as simple and straightforward as an engineering textbook. However, if we can verify the **logic and assumptions** you use to deduce a textbook answer, we can grow your professional skills.

5-minute revision workshop

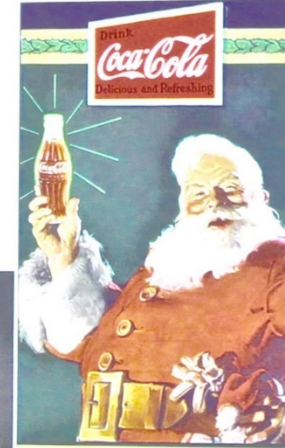
The issue of potential impact on species richness under potential climate change conditions has largely been examined in alpine regions (Moen et al. 2008). Furthermore, a paper examined potential outcomes of species richness in Europe (Thuiller et al. 2006). However, the boreal forest of North America is also receiving attention in modeling distribution of tree species (McKenney et al. 2007). In addition, vegetation changes were modeled for northern Alaska in relation to climate change conditions (Euskirchen et al. 2009).

1. **What's the problem?**
2. **Why?**
3. **Suggested revisions?**

HISTORY OF PIN-UP



Alberto Vargas
South Pacific
1946
Esquire

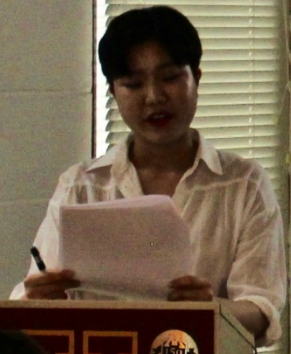


"My hat's off to
the pause that refreshes"



Haddon Sundblom
Santa
1931
Cardboard Cutout

Ha
Yes
19
Ca



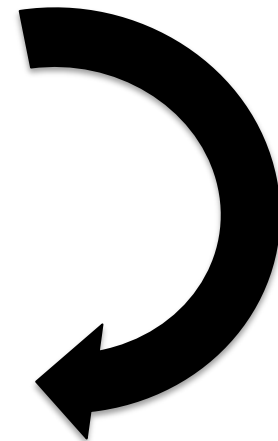
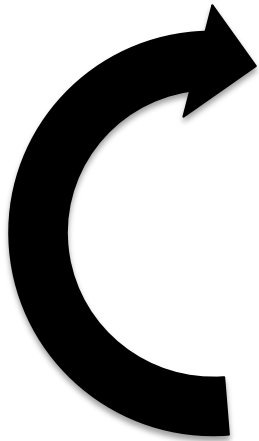
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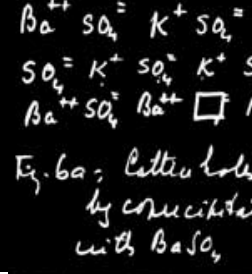
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ASSESSING WEC: RATING



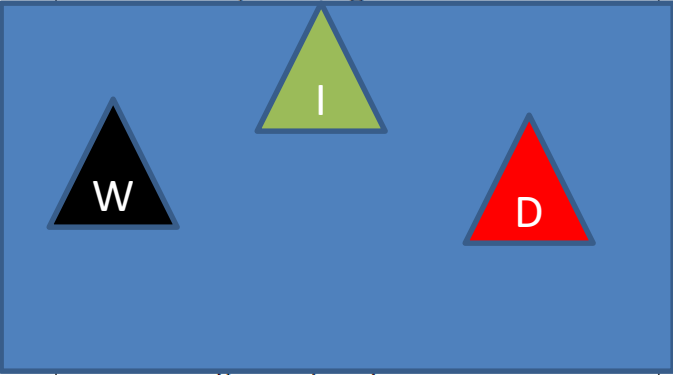
The death is a tragedy + ...
 ... to his family and ...
 ...
 ... brings shame to ...
 ... of non- ...
 ... of him ...
 ... he marched and ...
 ... find new strength ...
 ... of discrimination, ...

1. Expected Writing Abilities are translated into rat

2. Iterative rating se which 3 raters (2 target unit) rate o papers/projects a generated criteria

3. Rating results (an comments) are pr who are asked for reactions/observa

Criteria for Ratings.2011.CBS.

Writing Plan Abilities	PROPOSED Criteria for Rating
1. Communicate information in a manner that is overt and logical.	a) Communicates a scientific narrative that is direct, with an overt and transparent logic.
2. Communicate information in a manner that is precise and concise.	
3. Present and interpret data in context.	
4. Synthesize ideas in new ways.	
5. Analyze and interpret published work, gauging the efficacy of evidence.	g) Critiques reasoning, data, and/or methodology of published work.
6. Identify significant gaps in scientific knowledge and develop research questions to address those gaps.	h) Demonstrates an organization that moves from an articulation of the target question or problem to procedure, data, conclusions, and back to target problem.

WEC Ratings for sample department in the College of Science and Engineering

#	Criteria: The text...	2013	2016
1	Synthesizes information and ideas from multiple or disparate sources.	.59	.81
2	Consistently uses language appropriate for scientific audiences.	.53	.73
3	Describes what is seen (in the field and/or lab), read (in an article, book, and/or website), or heard (in class, lab, and/or the field) so that the observations and information is understandable to someone who was not present.	.58	.57
4	Explains the meaning of data and figures so that they are understandable to someone who does not have the data or figures.	.32	.54
5	Answers a question or makes a point using <u>logically sequenced sentences</u> .	.71	.77

0= insufficient ; 1= sufficient

2013 N = 287 pages

2016 N = 275 pages

Threats to sustained programmatic vitality in WAC



- Faculty resistance
- Focus on individual courses (rather than curricular systems)
- The “myth of transience” (Russell 2002)
- The “danger of innovations set adrift” (White 1990)
- Administrators charged with cutting costs
- Lack of direct assessment

Evidence of sustainable change...



- Faculty methods, perceptions, and confidence ([transcripts, surveys, interviews, assignment analysis](#))
- Explicit instruction and authentic assessment ([Writing Plans, annual Liaison survey](#))
- Course-based vs. curriculum-based integration ([Writing Plans](#))
- Rate at which student writing is meeting faculty expectations ([Triennial rating](#))
- Rate at which student writers report engagement with productive writing practices ([Student Engagement in Research Universities \(SERU\)](#))

Writing-Enriched Curriculum?

A faculty-driven model designed to support the curricular integration of relevant writing and writing instruction and to increase the rate at which student writing meets local faculty expectations.

These ends are achieved through the ongoing, creation, implementation, and assessment of undergraduate Writing Plans

WRITING-ENRICHED CURRICULA

1. Writing is an expression of thinking and a tool to learning.
2. Writing involves choosing among an array of modes or forms, only some of which involve words.
3. Writing abilities are continually developed rather than mastered .
4. Writing instruction (teaching *with* writing) is a shared responsibility across all academic disciplines.
5. Those who infuse writing instruction into their teaching require ongoing, partnered support.
- 6. Unchallenged, tacit-level conceptions of writing and writing instruction inform the ways that writing is incorporated in courses and curricula**
- 7. Systemic, curricular incorporation of writing is most meaningfully achieved when those who teach are provided multiple opportunities to articulate, interrogate, and communicate their assumptions and expectations.**

Elective

WEC: critical attributes / methods

Faculty-driven
(department-
located)

- Writing and writing instruction are locally defined
- Conceptual change drives pedagogic and systemic change

Curriculum-
focused

- Writing is discussed in curricular context

Data-driven

- Locally collected, locally-owned data are brought to each meeting for interpretation and discussion

Slow-paced
(sustained)

- Writing Plan evolves over three editions in a decade (+)
- Plans are context relevant and build toward self-sustainability

Supported

- Liaisons paid stipend
- Plans are granted implementation funds
- WAC consultant serves as unit-dedicated long-term partner

Perpetually-
assessed

- Multiple modes of unit-specific and programmatic assessment focus on instruction, writing, Writing Plans, WEC, methodology...

Question

What aspects of the WEC model would / would not work well in your teaching context? Why?

EXTRAS

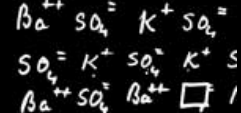


Fig. 6a: Lattice holes
by crucibility
with BaSO_4



What effect is creating, implementing, and assessing a Writing Plan having on writing *instruction* in WEC units?

Direct: assignment analysis

Indirect:

- Writing Plans
- Meeting transcriptions
- Curricular mapping
- Annual Liaison survey/focus groups

What impact is WEC having *on student writing*?

Direct: Triennial rating of student writing

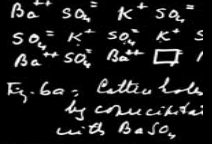
Indirect: Annual U-Wide surveys

How successful is the *WEC model* for creating faculty-authored Writing Plans?

Direct: Board approval of Writing Plans

Indirect: Annual Liaison survey/focus groups

Application for WEC enrollment



He died in a tragedy & a
 son to his family and
 the same best friend
 to come back later
 to bring shame to
 the world of his father
 which he married and
 the land was strength
 of determination, peace

Question	Indices	Timing / Audience
<p><i>What are students writing? Where? What does instruction look like? Where?</i></p>	<ul style="list-style-type: none"> • Sample collection • Stakeholder survey • Curricular matrices 	<p>baseline / faculty Year 10 / faculty</p>

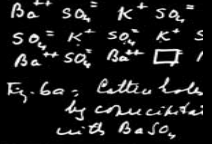
$Ba^{2+} SO_4^{2-} K^+ SO_4^{2-}$
 $SO_4^{2-} K^+ SO_4^{2-} K^+ S$
 $Ba^{2+} SO_4^{2-} Ba^{2+} \square /$
 Ex: Ca^{2+} cations
 by precipitation
 with $BaSO_4$

The death of a tragedy + a
 the teacher family and
 the...
 to...
 to bring shame to
 at...
 which he married and
 the land was strength
 of...

Question	Indices	Timing / Audience
<p><i>What are students writing? Where? What does instruction look like? Where?</i></p>	<ul style="list-style-type: none"> • Sample collection • Stakeholder survey • Curricular matrices 	<p>baseline / faculty Year 10 / faculty</p>
<p><i>What effect is creating, implementing, and assessing a Writing Plan having on writing instruction in WEC departments?</i></p>	<ul style="list-style-type: none"> • Writing Plans (100) • Meeting transcriptions • SERU • Focus groups (faculty) <p>-----</p> <ul style="list-style-type: none"> • Customized assessment 	<p>Year 1, 2, 5, 10 / faculty + CWB Year 1 / faculty Biennial / Provost's Office Episodic / WAC team</p> <p>-----</p> <p>Variable / faculty</p>



Question	Indices	Timing / Audience
<p><i>What are students writing? Where? What does instruction look like? Where?</i></p>	<ul style="list-style-type: none"> • Sample collection • Stakeholder survey • Curricular matrices 	<p>baseline / faculty Year 10 / faculty</p>
<p><i>What effect is creating, implementing, and assessing a Writing Plan having on writing instruction in WEC departments?</i></p>	<ul style="list-style-type: none"> • Writing Plans (100) • Meeting transcriptions • SERU • Focus groups (faculty) <hr/> <ul style="list-style-type: none"> • Customized assessment 	<p>Year 1, 2, 5, 10 / faculty + CWB Year 1 / faculty Biennial / Provost's Office Episodic / WAC team</p> <hr/> <p>Variable / faculty</p>
<p><i>What impact is WEC having on student writing?</i></p>	<ul style="list-style-type: none"> • Rating of student writing • SERU • Writing Plans 	<p>Triennial / faculty Biennial / Provost's Office Year 1, 2, 5, 10 / faculty + CWB</p>



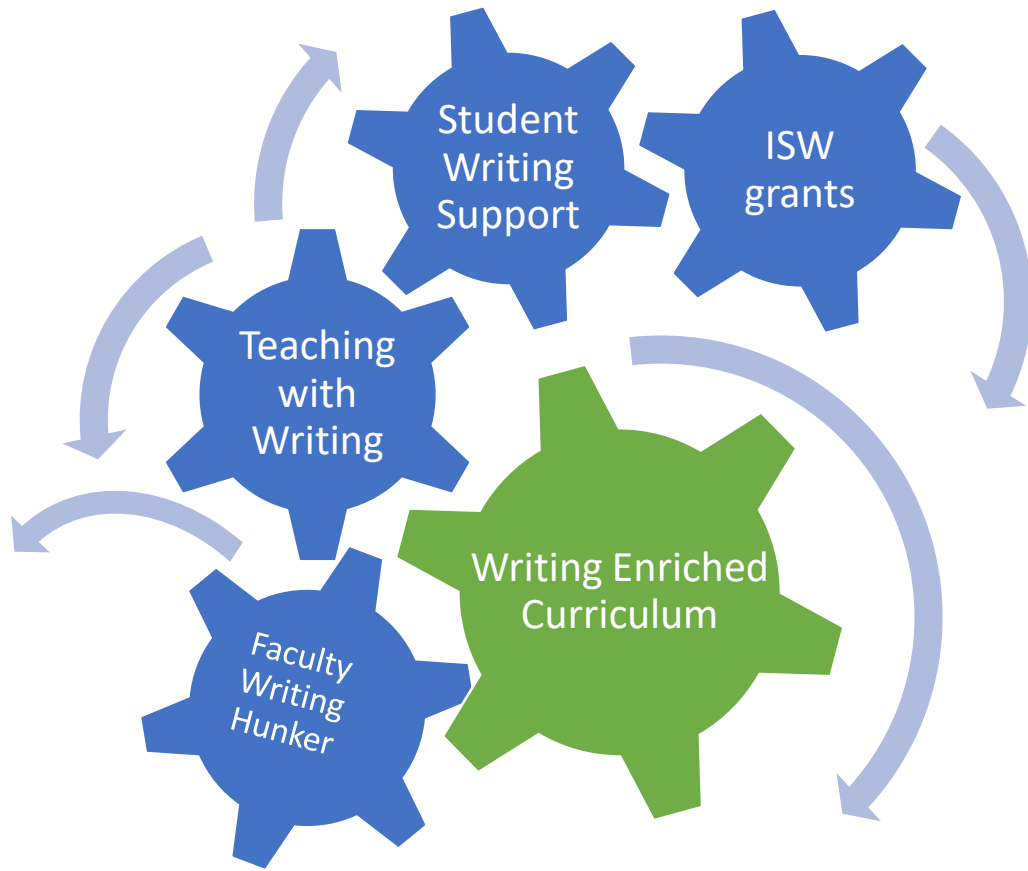
He died in a tragedy + a
 she to his family and
 the same best life
 to come back to
 to bring shame to
 at night of 1900
 which he married and
 to find new strength
 of determination, peace

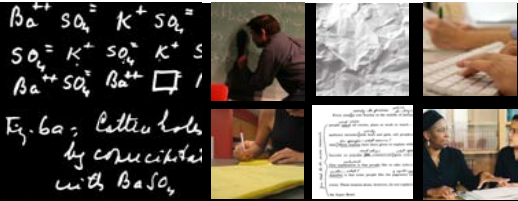
Question	Indices	Timing / audience
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How successful is the WEC model for creating faculty-authored Writing Plans?

- Writing Plan approval
- Liaison surveys
- Focus groups (faculty)
- Applications

Monthly / Departments
 Annual / WAC team
 Episodic / WAC team
 Annual /WAC team





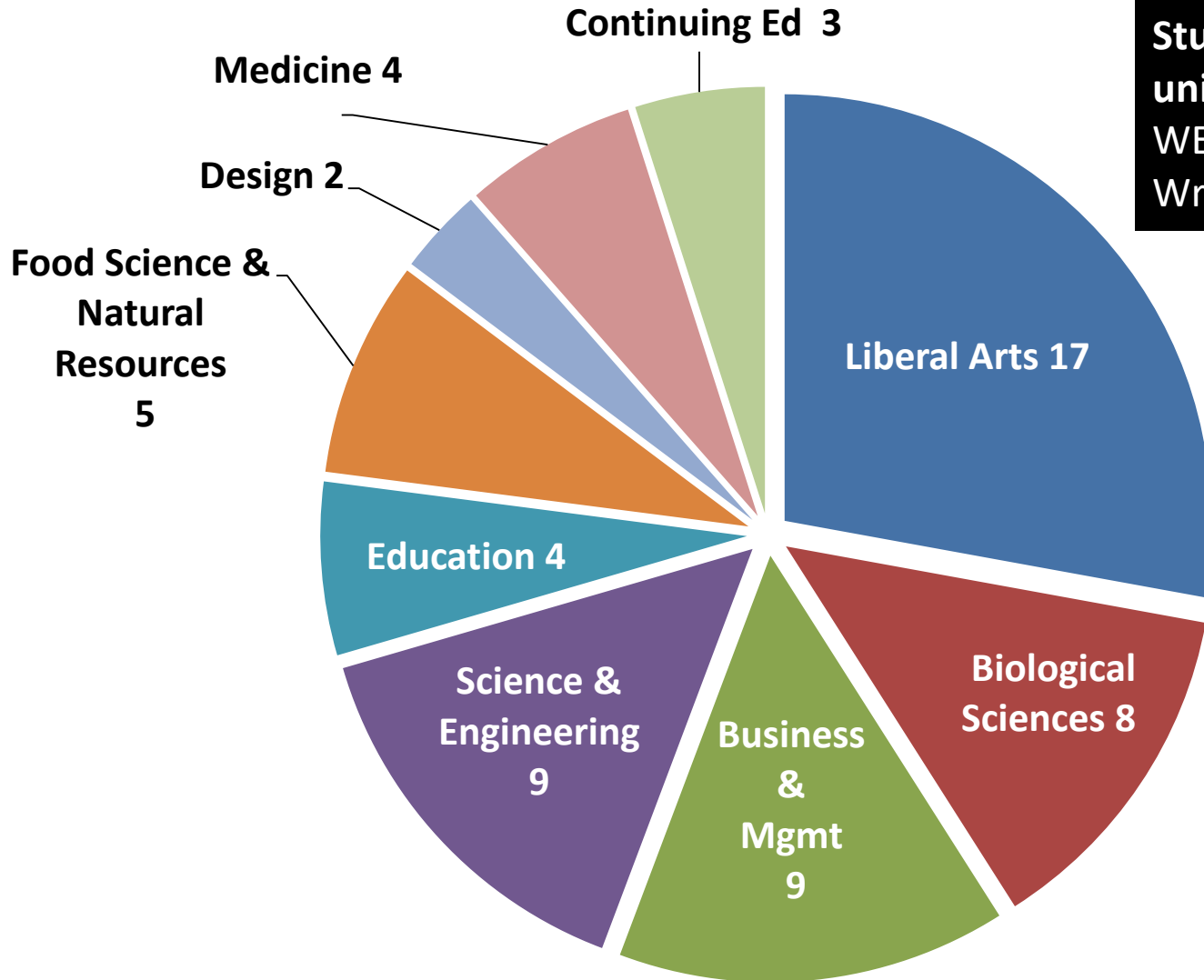
The death in a tragedy is a
 loss to his family and
 the community for
 his loss of talents and
 his brings shame to a
 family of non-justice
 and he is a man of justice
 when he marked and
 find new strength
 of determination, peace

WRITING-ENRICHED CURRICULUM PROGRAM

Numbers as of May 2019

Departments & Programs: 61
Majors: 97
Students enrolled in WEC
units: 17,244
WEC surveys: 9000 completed
Writing Plans approved: 105

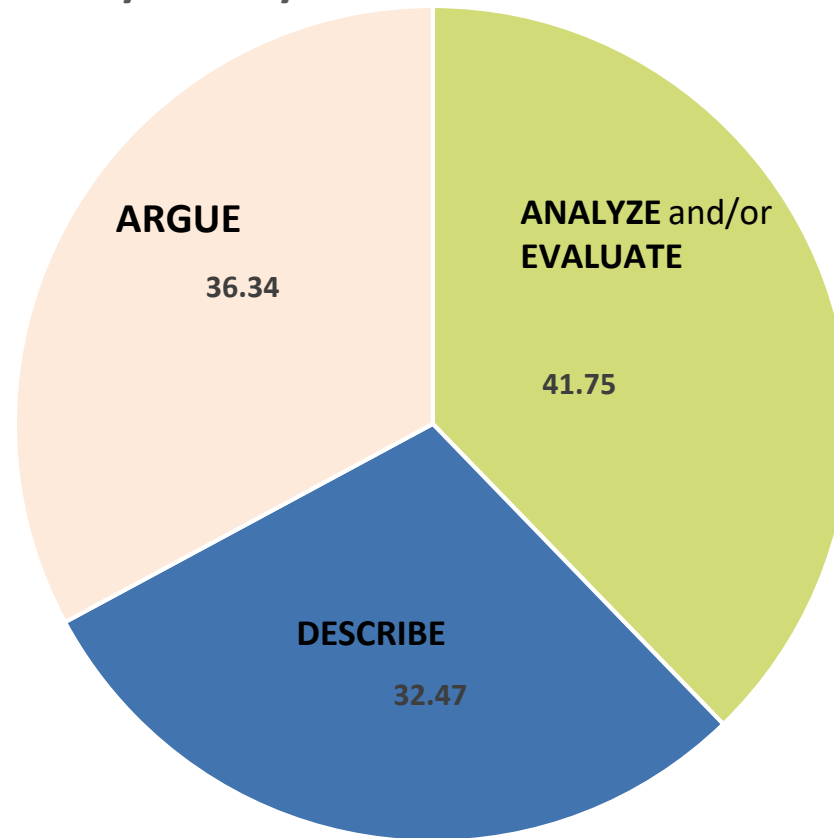
WEC majors by college



WEC Survey: 2013-2017: 18 WEC departments across five colleges

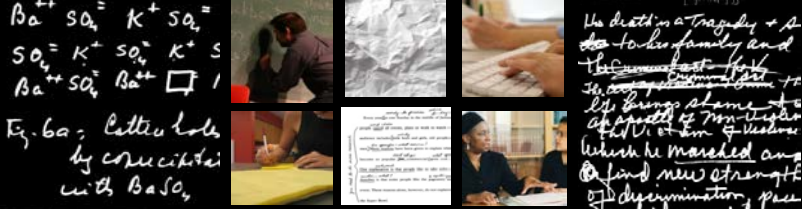
Top 3 of 16 writing abilities

Writing Abilities Expected by Faculty



- Analyze and/or evaluate ideas, texts, and events
- Create precise descriptions of processes, objects, findings, environments, etc.
- Argue a position using a central thesis or hypothesis and evidence

tangible rewards



FISCAL SUPPORT

- Professional development funds for Faculty Liaison
- Funds supporting approved implementation activity

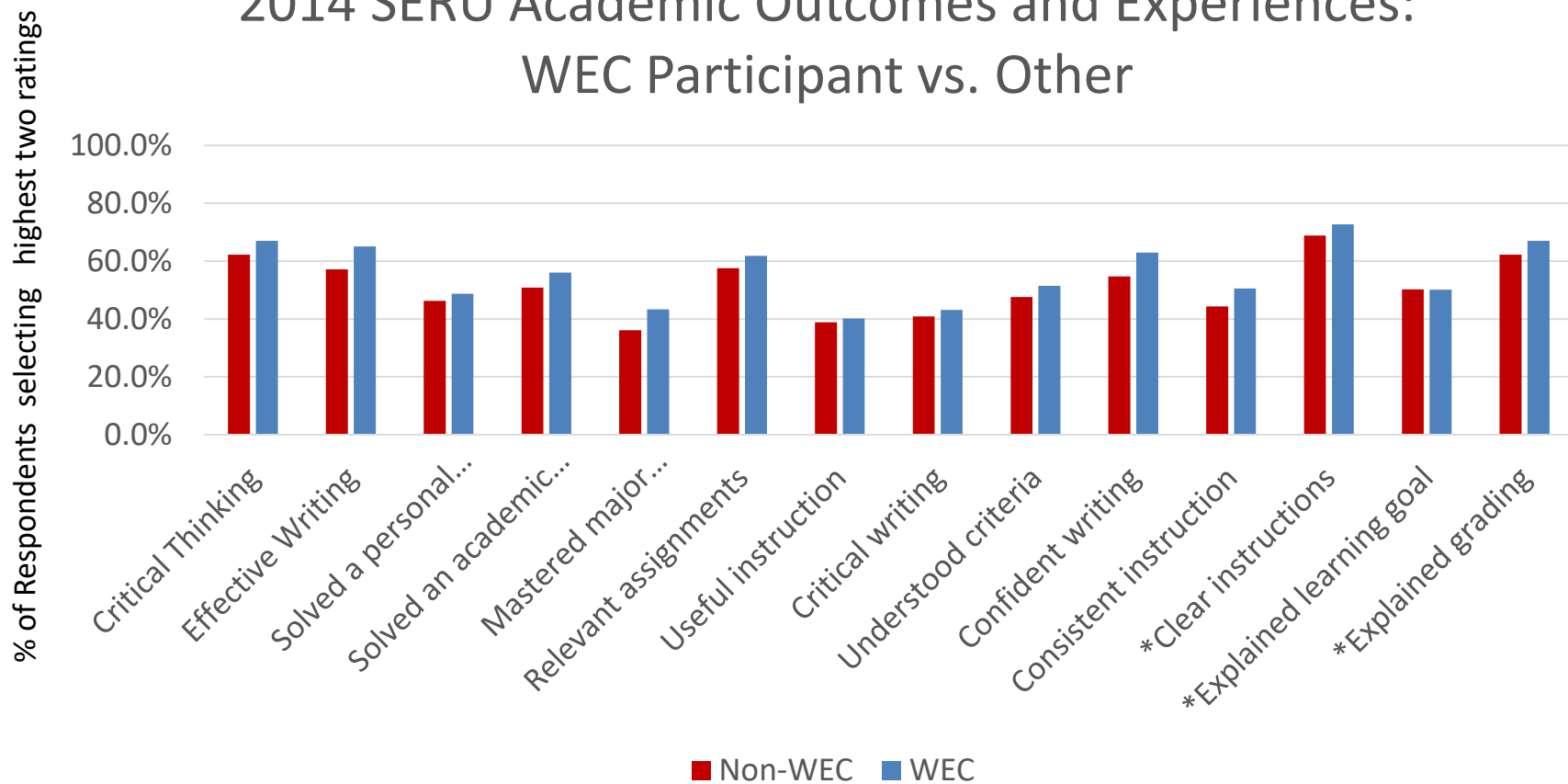
ASSESSMENT DATA

- Thorough baseline survey data (three populations)
- Comprehensive, de-identified student writing samples (and sample instructional materials) from three courses
- Curricular maps
- Longitudinal rating data
- Other (as undertaken by units)

INSTRUCTIONAL SUPPORT

- Workshops, consultations, material development (as designated in Plan)
- Student writing samples (and sample instructional materials) from three courses

2014 SERU Academic Outcomes and Experiences: WEC Participant vs. Other



WHAT ABILITIES DO WE NEED TO WRITE EFFECTIVELY IN THEATRE?

Conduct research

- Recognize the different definitions, values, and processes of research pertinent to different dimensions of our discipline, and develop appropriate research strategies to support your work.
 - For **textual research** it is important to
 - Develop familiarity and comfort with library resources
 - Learn to distinguish between primary and secondary sources
 - Assess the reliability and value of web-based resources
 - Effectively document your sources
 - For **observational or practical research** it is critical to
 - Cultivate the habit of mark-making in verbal or graphic form
 - Develop a practice of recording thoughts, images, and ideas as a response to environment and everyday experience, and as a record of creative process
 - This habitual practice may take the form of free-writing, stream of consciousness writing, doodling, note-taking, sketching, collecting, etc.
 - For **organizational research** we must
 - Collect information and organize it in a user-friendly and efficient manner
 - Anticipate questions that may arise, and be prepared to answer them
- Develop methods of integrating your research into your creative work

Unlock and explore the imagination

- Go beyond your first instinct, what you think is 'right', and/or what is literal
- Take risks, be willing to make mistakes and get messy
- Keep open and develop multiple options

Create descriptions of performance, design components, and/or dramatic texts

- Craft detailed, evocative, and closely observed descriptions of others' artistic work as well as

Selected group of theoretical concepts/research studies that help us understand the WEC model's design/success

WEC approach	Flash. P. (2016) Anson, C. Carter, M. (1991)
Sustainable educational initiatives	Fullan, M. (2004, 2015) Henderson, C. Beach, A. Finkelstein, N. (2011) Cox, Galin, and Melzer (2018)
Teaching for transfer	Yancey, K.B., Taczak, K., Robertson, L. (2015) Nowacek, R. (2011)
Threshold concepts	Lave and Wenger (1991) Adler-Kassner L. and Wardle, E. (2015)
Activity theory	Engstrom, T. (1987) LeonT'ev. A (1981) Russell, D. (1995)
Authentic writing assessment	Broad, B.(2003) Huot, B. (2002) Adler-Kassner and O'Neil (2010)
Learning	Committee on Developments in the Science of Learning (1999, 2018)

University of Minnesota, Twin Cities

Public, land-grant, R1

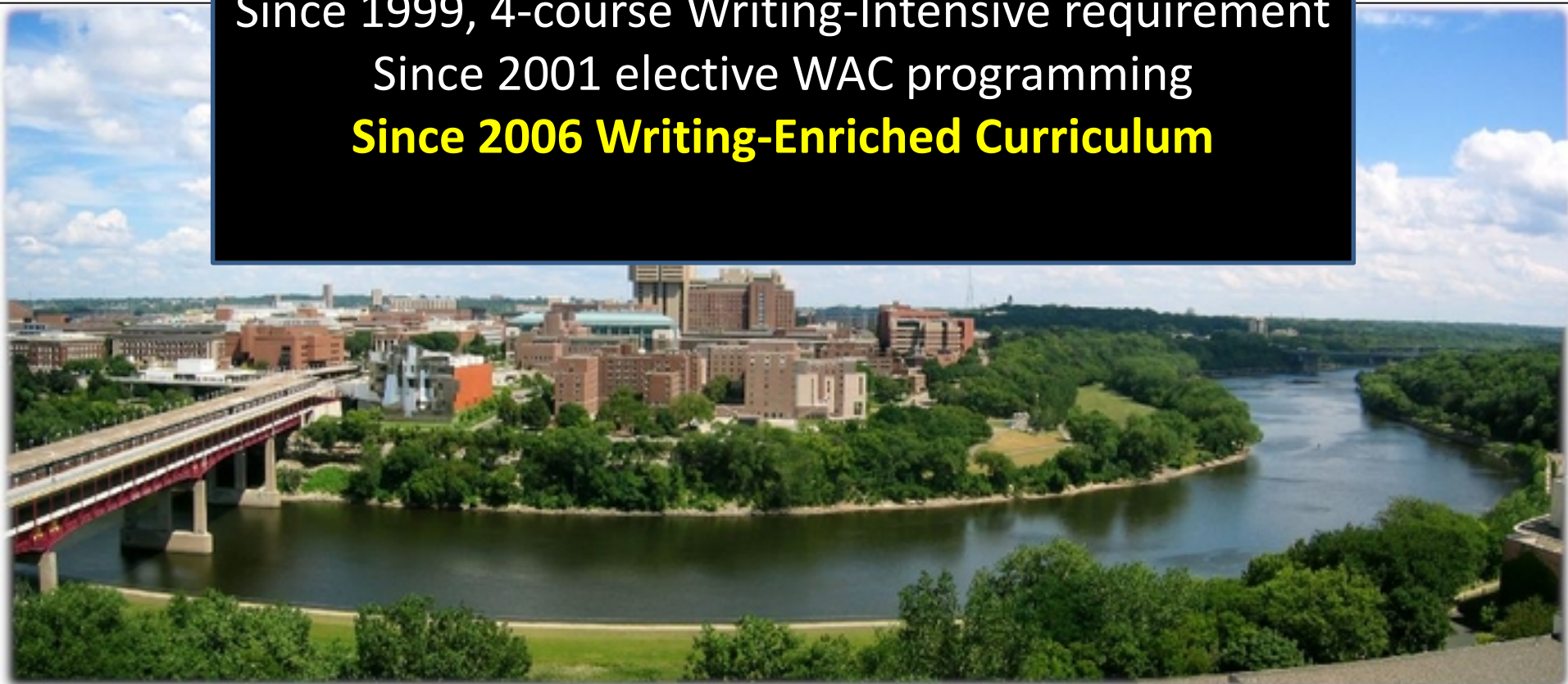
43K students (30,500 undergraduate) (Twin Cities)

1-semester First Year Writing requirement

Since 1999, 4-course Writing-Intensive requirement

Since 2001 elective WAC programming

Since 2006 Writing-Enriched Curriculum



ANTHROPOLOGY

Correlating writing abilities with explicit instruction

Writing-Enriched Curriculum Abilities

	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10	Course 11	Course 12
1. Articulate specific, relevant, and compelling research questions and themes that are appropriately scaled to the assignment	Light Purple	Dark Purple	Dark Purple	Light Purple	Dark Purple		Dark Purple	Dark Purple	Dark Purple	Dark Purple		Dark Purple
2. Weave analyses of direct, specific data into a coherent text that directly addresses the thesis/research question			Dark Purple	Dark Purple	Light Purple		Dark Purple	Dark Purple				Dark Purple
3. Convey observations in specific, accurate, and rich detail			Dark Purple				Light Purple	Dark Purple			Dark Purple	Dark Purple
4. Contrast and synthesize multiple lines of evidence	Dark Purple		Light Purple			Dark Purple	Dark Purple					Light Purple
5. Situate writing within the broader questions and themes of the discipline		Dark Purple			Dark Purple	Dark Purple	Light Purple				Dark Purple	Dark Purple
6. Formulate and express independent ideas that deeply interrogate the literature	Light Purple		Dark Purple				Light Purple			Light Purple	Light Purple	Light Purple
7. Draw specific conclusions based on a thorough assessment of the strengths and limitations of evidence and alternate interpretations			Light Purple		Light Purple		Dark Purple			Dark Purple	Light Purple	Dark Purple
8. Recognize the impact of assumptions and biases			Dark Purple			Dark Purple	Dark Purple			Dark Purple		Light Purple
9. Engage ambiguity and uncertainty	Dark Purple	Light Purple	Dark Purple				Light Purple	Light Purple	Light Purple			Dark Purple



Faculty-identified writing abilities that (a) challenge students and (b) are currently addressed with explicit instruction



Faculty-identified writing abilities that (a) challenge students and (b) are **not** currently addressed with explicit instruction