



Department of Safety Sciences

Department Writing Plan

Compiled by
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Submitted to:
The Faculty of the Department of Safety Sciences
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Summary

The Safety Sciences Department began drafting this Writing Plan in September 2018, when Dr. Siegel Finer (WAC director) met with Dr. Tracey Cekada (Safety Sciences Department Chair). Dr. Siegel Finer clarified the reasons for moving toward a WAC model at IUP and explained the desired elements of a Departmental Writing Plan (DWP).

Dr. Cekada then collected writing assignments from faculty from the 100-, 200-, 300-, and 400-level Safety Sciences courses used over the preceding academic year. She placed them in a curriculum map and met with all members of the Safety Sciences Department with regard to their rationales for these assignments.

Dr. Cekada and Dr. Siegel Finer met several times throughout the Spring 2019 semester in order to review progress on the plan and orient future work on it. Dr. Cekada regularly discussed the development of the Plan with faculty at department meetings in the Fall 2018 and Spring 2019 semesters. Dr. Cekada also involved the Safety Sciences Undergraduate Curriculum Committee on the development of this plan, which consisted of Dr. Minnick and Dr. Paschold. This committee devoted its Spring 2019 meetings to the discussion of desired student writing skills and assessment. In the Spring 2020 semester, the Safety Sciences Department faculty voted to approve the writing plan.

SAFETY SCIENCES
Department Writing Plan
Rollout Fall 2020

Writing Characteristics Specific to the Discipline of Safety Sciences

Safety Sciences is a discipline where both effective written and oral communication skills are essential to the success of a safety professional. Our discipline can combine both a regulatory and humanistic approach to writing. It requires expertise in writing across a range of genres, including science writing, technical writing, and expository writing. It encompasses the ability to write to “document”; write to “describe”; write to “inform”; and to write to “convince.”

Safety professionals will be expected to write company policies and procedures, written programs, instructional materials, and on-line or in-class training programs. Safety professionals may be involved in research and technical writing as well as professional writing that may include cover letters and resumes. They will be expected to identify and document hazards; summarize their findings in memos and reports; and convince management of the need and/or requirement to implement their recommendations. Therefore, their recommendations need to be justified and supported by regulations and/or best practices policies. They must be clear, concise, accurate and justifiable.

Desired Student Writing Abilities

Safety Sciences requires the development of writing that is clear, concise, and accurate so that their findings, recommendations and implications can be effectively communicated to others both within and outside the organization (e.g., workers, management, supervisors, regulators, and peers).

The curriculum in the Safety Sciences program is driven by ABET accreditation requirements and is reviewed regularly by an Advisory Committee. The purpose of our Advisory Committee is to provide consultation and advice in the following areas: strategic planning; curriculum and coursework; outcomes assessment; facilities and equipment; internship program; emerging issues in occupational safety and health; funding/donations; marketing and recruitment.

Students will be provided with the skills to aid them in becoming effective oral and written safety, health and environmental communicators and trainers. They must design and

deliver training programs using modern technology and engagement tools. Students will learn, both in writing and orally, how to use communication skills to convince management and employees to embrace and implement safety initiatives, and to communicate with regulators and the public regarding safety, environmental, and health issues.

A Safety Sciences student who completes their SAFE courses will have received appropriate instruction and should be able to:

1. Describe such activities such as incidents, scenarios, and situations.
2. Effectively explain and provide information/facts through investigations, investigative reports, and industrial hygiene surveys.
3. Convince/persuade through identification of problems, recommendations, and applicable controls in reports, memos and emails.
4. Construct and deliver effective training presentations.
5. Communicate safety, health, and environmental information in writing to different audience types (e.g., management, employees, public and regulators) and within/across different functions in an organization.
6. Formulate or design a system, process, policy/procedure/program, or report to meet a desired need.
7. Identify and cite resources appropriately.

Communicating Writing Expectations to Students

Communication, both oral and written, is central to the development of a safety sciences student. It is the cornerstone of determining how effective they will be as safety professionals. The constant practice of writing prepares our students for the wide-range of documentation expectations of a safety professional. Our faculty communicate the importance of speaking and writing both in and outside the classroom. SAFE 215, Safety, Health and Environmental Communications, is a course that was developed for the sole purpose of enhancing communication skills for our students. Our curriculum encompasses five laboratory courses (SAFE 211, SAFE 330, SAFE 347, SAFE 430, and SAFE 412), which have expectations of regularly written laboratory reports and other extensive writing assignments. The majority of our SAFE classes have a semester project that incorporates a significant amount of writing into their curriculum.

We assess our students' ability to effectively communicate, both orally and written, through

an Internship Supervisor Evaluation. This assessment is conducted during their last semester at IUP when they are on internship. We additionally assess our students' perception on their ability to effectively communicate through a Graduate Exit Survey, which is conducted immediately prior to graduation. Results of these surveys are provided to our advisory committee and are included in our ABET accreditation self-study. It was ultimately these surveys that led us to the development of SAFE 215 (SHE Communications), a writing-intensive course.

Writing activities and assignments are explained in writing and we reinforce these explanations in class. Some faculty have rubrics tailored for specific assignments. Most of our labs require extensive writing and we provide feedback on writing assignments to help students develop their writing. In some instances, drafts are accepted, and students can make revisions and resubmit their work so that improvements can be made. Our part-time and full-time internship courses require the writing of four extensive reports. Faculty syllabi for these classes usually provide great detail on report expectations. Most faculty also meet with their students to discuss the writing requirements before the students leave to go on internship. Faculty allow a draft with a subsequent revision for the first paper. For our part-time internship, students meet with faculty regularly to review their written projects and to discuss progression forward with their written work. Several of our faculty use "turn it in" a plagiarism tool to prevent unlawful copying of others work. We will continue to reinforce this. In many of our classes we reinforce the need to be able to speak comfortably and fluently in front of others. As a result, many of our classes require oral presentations. We frequently refer students to the Writing Center.

We encourage and reinforce the importance of good writing outside of the classroom as well. Our students have participated in the undergraduate scholars forum (winning best research poster in 2018 and 2019). They have presented their research and poster findings at national conferences, often receiving recognition for "best research poster" at these events. We regularly have visiting speakers who stress to students the importance of effective communication, both written and orally, in their jobs.

We have three student organizations within our program- the student section of the American Society of Safety Professionals (ASSP); Ladies of Safety; and our Safety Sciences Honor Society, Rho Sigma Kappa (RSK). These student organizations have organized resume writing and interviewing preparation sessions. They have been involved in research competitions through grants funded by the Alcoa Corporation. ASSP regularly creates newsletters updating students on what is happening both within the student section of ASSP and the department. As we move forward, we will continue to find additional ways that we can enhance writing not only throughout our curriculum, but throughout the program.

Syllabus Statement

Last updated April 7, 2020

The Department of Safety Sciences is devoted to improving students' written communication skills. In this class, you should expect that writing activities will be assigned and assessed in order to improve your communication skills in the profession.

Recommendations for Sustaining WAC

In an effort to sustain our writing-enriched curriculum, the Safety Sciences Department plans to:

- Elect at least one faculty member to continue to be the WAC/SAFE liaison;
- Provide all newly hired faculty a copy of the DWP, and recommend attendance at WAC workshops or the two-day writing workshop for Liberal Studies faculty;
- Continue to collect outcomes for assessment and for our accreditation that reflect effective writing;
- Incorporate the above syllabus statement on our department syllabi, as appropriate;
- Administer assessment of senior writing samples biennially and analyze results with the WAC Director with the goal of implementing faculty development as necessary (in order to maintain assessment results above 80%);
- Incorporate biennial assessment results and writing plan progress on five-year review documents and/or accreditation Self Study reports;
- Continue to update the Writing Outcomes Curriculum Map as courses are added, removed, and revised in the SAFE curriculum (and communicate these changes to the WAC Director).

Learning Outcomes

By developing this Departmental Writing Program, the Safety Sciences Department demonstrates one of the ways in which it is helping to implement the university's strategic plan to adopt high-impact practices. The Department emphasizes writing at all levels of instruction and stresses to its students the ability to be able to write and communicate with employees across all levels of their organization. Therefore, our writing assignments encourage assignments focused on various audiences.

Writing Outcomes Curriculum Map

The following Curriculum Map represents some of the writing activities that have been incorporated into the classroom. These activities can change based on accreditation criteria, changes in our field, and student learning needs. Faculty revise their assignments on a regular basis. Writing assignments may change or vary based on the number of

students in the classroom and class expectations, however all faculty assign and teach writing throughout the curriculum. The mapping below illustrates some of the key writing assignments in our classes.

Upon completion of SAFE courses taught in the Safety Sciences Department, majors should demonstrate the following writing skills:

1. describe such things as incidents, scenarios, and situations;
2. effectively explain and provide information/facts through investigations, investigative reports, and industrial hygiene surveys;
3. convince/ persuade through identification of problems, recommendations, and applicable controls in reports, memos and emails;
4. construct and deliver effective training presentations;
5. communicate safety, health, and environmental information in writing to different audience types (e.g., management, employees, public and regulators) and within/across different functions in an organization;
6. formulate or design a system, process, policy/procedure/program, or report to meet a desired need; and
7. identify and cite resources appropriately.

Course	Title	Writing Activities	Purpose	Genres Modeled Through Reading
101	Intro. to Occupational Safety and Health	research responses	synthesize SH&E job information	Websites, textbooks, observations, discussions, technological tools such as apps
		News project	identify and explain significance of OSHA violations	
		campus observations	observe and identify hazards, effectively describe and evaluate their significance	
		group hazard summary	extrapolate hazard potential and identify controls	

		job safety analysis	identify hazardous steps, establish controls for each step, and communicate safe work practices for each step	
		utilizing technology in EH&S	identify technological tools (i.e. apps) and describe their application and benefit in the field	
		Incident report form	synthesize and contextualize incident information	
		free journaling	assess and evaluate the impact of safety events in the news	
111	Principles of Safety I-General Industry	presentation	conduct a 15-min presentation on a topic identified by the instructor	Hands-on application, OSHA website
		machine guarding paper	conduct a risk assessment of a machine guarding application and create a 3-4 page paper on this assignment	
211	Principles of Safety II - Construction industry	Global issues poster and brochure	compare and contrast chosen country safety and health issues	Regulations, OSHA web site, Keller website, lecture material, course book, hazard assessments, lab data
		PPE assessment and cost proposal	develop modified lab report on assessing hazards, selecting proper PPE and developing cost proposal	*Lab reports must go through Writing Center
		scaffolding lab report	create lab report using formal report guidelines based on activities in lab	

		confined space lab report	create lab report using formal report guidelines based on activities in lab	
		ropes, chains, and slings report	interpret mathematical results from lab activities	
		chapter review questions	synthesize book and lecture material in written format	
212	Hazard Prevention Management I	safety and health program	write a S&H program that incorporates policy and synthesizes recommendations	Scenarios, articles, textbook
		OSHA recordkeeping short answer assignment	provide short-answer responses to OSHA recordkeeping questions and provide a rationale to support your responses	
		risk assessment essay	investigate incidents, identify root causes, and conduct risk assessments and present controls	
		safety and health written report and presentation of program	elaborate S&H policy, describe controls, define a training plan, monitor program implementation by describing how indicators will be measured	
		accident analysis and investigation case study	analyze and identify root causes of a case study	

215	Safety and Health Communications	develop learning objectives	apply adult learning strategies to the development of an assigned topic	<p>*All assignments must go through the Writing Center</p> <p>Lydia.com videos, websites, class notes, OSHA Training Requirements, Career Services, guest speakers</p>
		develop lesson plan	create lesson plan with interactive activities appropriate to the adult learner on a given safety topic	
		training handout development	create handouts with appropriate content for various audiences (low reading level, non-English- speaking workers, etc.)	
		training program	create and present a written training program in power point format	
		interview	conduct live interview of a safety professional about communication methods used by a modern safety professional and share findings with class	
		industry report	develop multi-stage technical paper on EHS aspect of an industry utilizing MS Word applications (eg. Table of contents, headings, page breaks, page numbering, diagrams, etc.	
		resume	using office of career planning guidelines, create resume through multiple draft review processes	

		cover letter	create a sample cover letter using office of career planning guidelines	
		writing emails	synthesize emails for clarity, conciseness, coherency, etc. and make recommendations for improvement	
		interview process review	synthesize meaning answers to typical interview questions	
		instructions	write-to-describe: create step-by-step technical instructions for a task such as lockout/tagout using a minimum 2-draft improvement process	
220	Hazardous Materials and Emergency Preparedness	final project: hazardous materials paper	research, interpret, and synthesize information related to a hazardous material in a min. 15-page paper	Online resources and databases, textbooks/ Pocket Guides,
		chapter summaries	summarize and synthesize several chapters in the textbook	
		TOXNET database	through research, describe and summarize applicable regulations, symptoms of exposure, uses, PPE, etc. for a select chemical	

310	Environmental Safety and	short answer questions	write to describe and construct recommendations	Articles, case studies,
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	Health Regulations and Sustainability	case study	interpret a case study and synthesize information to formulate question responses	permits, websites,
		memo	formulate a convincing argument through a memo as to why a Title V permit is required based on provided information	
		title V permit review	interpret information provided in a permit and formulate short answer responses	
		short answer radon and/or love canal questions	review article and formulate short answer responses to questions	
		everyday exposure paper	based on an article assess potential hazards to toxins in the home and outdoors and identify lifestyle, home, or environmental changes to reduce these exposures in a 1-2 page paper	
		fundamentals of water pollution and controls	after reading assigned articles and conducting research, create a paper that discusses issues related to water pollution and its controls	
		free journaling	research environmental events in the news and summarize their impact on the environment and your perspective on the issues	
		SPCC plan review	review a spill prevention control and countermeasures plan (SPCC) and provide detailed responses to specific questions	

		environmental regulations overview	in a 2-3 page paper, research an environmental regulation. Provide an overview of the regulation and its story; discuss how compliance monitoring is complete under the Act and provide a detailed discussion of the permitting process	
		industrial pollutant/semester project	select a manufacturing process, write a 6-7 page paper describing the process and the specific application of environmental regulations and their impact during the manufacturing of this product	
311	Industrial Fire Protection	sprinkler system or water flow project	examine a floor plan and design a sprinkler system meeting water and pressure demands	Scenarios, textbooks,
		flammable liquid storage project	develop an evaluative report of findings; construct handling procedures; and develop a report of OSHA requirements	
330	Recognition, Evaluation, and Control of Occupational Health Hazards I	gas/vapor lab memo	anticipate, identify, and evaluate potentially hazardous agents, conditions, and practices based on lab sampling measurements for gases and vapors	Websites, safety data sheets, OSHA regulations, ACGIH guidelines, lab data, ASHRAE guidelines,
		ventilation lab report	based on lab results from ventilation, develop a lab report outlining your background, methodology, findings and recommendations	

		particulates lab memo	based on measurements gathered in lab, write a memo to the company director that outlines your findings and recommendations; clearly support/justify your recommendations	
		written program	write a respiratory protection program that meets OSHA requirements	
		flash card	synthesize gas, vapor, and solvent information into an informative card	
		TLV book report and presentation	research and synthesize ACGIH revised chemical hazards and provide findings in a report and presentation	
335	Industrial and Environmental Stressors	research assignment: persuasive argument	supporting why a chemical should not be used based on a scenario	Provides scenario, OSHA standards, websites
		research assignment: propose and provide alternative	use persuasive research based argument to propose an alternative to a chemical in a scenario	
		research assignment: revised program	address problems identified from current practice in the written program	
		work plan	create a work plan that will protect workers during a decommissioning project	
		research paper	write a 3-5 page paper based on research from peer-reviewed article on an occupational environmental health issue utilizing epidemiology	

---	Systems Safety	evaluate system from concept phase to disposal phase of system safety lifecycle (process hazard analysis project)	describe system and subsystems; conduct an analysis; identify major energy sources; describe programs; examine and describe disposal of the system; construct recommendations for elimination or control.	Textbooks, online resources
		chapter summaries	summarize and synthesize several chapters of the textbook	
		article summary	provide a one-page summary of an article	
347	Applied Ergonomics	computer workstation lab report	create a checklist to evaluate computer workstations; evaluate workstations and identify deficiencies; construct recommendations. Create a report that summarizes findings (including an Introduction, laboratory techniques, data and results, and conclusions/recommendations section)	Websites, ANSI standards, textbook, lab manual, videos, lifting tools
		lifting activity lab	analyze a lifting task and develop a report of findings and recommendations (including an introduction, laboratory techniques, data and results, and conclusions/recommendations section)	
		final project	develop a report that describes the task you are reviewing; conduct a literature review of your task; explain tools to evaluate the task; analyze the task; summarize results; construct recommendations. Present findings	

361	Air and water Pollution Controls	written response	synthesize a minimum 2 page written response to air and water pollution questions	Regulations, case study, websites
		water pollution project	provide schematic or list sequentially water treatment components	
		air pollution project	based on a scenario, research and properly cite potential air pollutants and their treatments	
		sampling and measurement homework	describe sampling and measurement methods in written documents based on a scenario	

412	Hazard Prevention Management II	training lab	develop and deliver a lesson plan	Websites, lab manual, textbook, ANSI and ISO standards,
		write a policy statement	develop a corporate EHS policy that conforms to ISO 45001, ISO 14001, and ANSI Z10 Standards	
		safety and health program directive	develop a "production ready" site-wide S&H plan for a company that includes document control information; title; purpose; scope; references; definitions; quality control; responsibilities; procedures; signatures; and any attachments or forms	
		standard operating procedure	write to explain how to perform a task clearly	
		audit plan	create an audit plan that would be used to assess organizational performance with safety management systems requirements	

		outline development	development of an outline of SH&E programs to be implemented in an organization and explain why they are important	
		accident investigation lab 1	complete a causal analysis form.	
		accident investigation lab 3	complete an accident investigation report	
		program manual	identify the components of a program manual and find supporting evidence to justify your decision	
430	Recognition, Evaluation, and Control of Occupational Health Hazards II	quick start guide	create a quick start guide for a dosimeter	Lab manual, text book, online resources, smart phone apps,
		noise lab report	conduct noise monitoring and develop a report that includes an executive summary, background, findings, discussion, and conclusions,	
		smartphone noise apps v. noise dosimeters lab	Describe concept of using a smartphone app for occupational noise monitoring; summarize history of apps available; describe NIOSH's role in these apps and their accuracy; examine the role and implications of apps for use in occupational health	
		hearing conservation program	Write a hearing conservation program that includes a 8-10 question exam	
		OSHA performance program reviews	Compare and contrast OSHA programs for specific elements	
		biological hazards lab report	Conduct an inspection looking for biological issues and provide written report of findings and recommendations	

		thermal exposure assessment	Create a lab report with a quick start guide and reference sheet on thermal exposure.	
435	Ethics and Professionalism	case studies	Analyze several case studies related to ethics. Comprehensively explain your response	Case studies, websites, ASSP Professional Safety Journal, books
		personality assessments	Synthesize the results and write a summary including agreement/disagreement & negative aspects of assessment	
		professional development plan	Reflect on goals for next three years and develop measurable plan to achieve goals	
		book review	Critically review book and provide "revelations" the book provided	
488/493	Part-time/full time Internship	industrial hygiene or hazard communication report	Conduct industrial hygiene monitoring and create a minimum 10-page report that includes the following sections: introduction; background; methodology; results/findings; recommendations; and conclusions	Textbooks, lab manuals, OSHA standards, websites, company policies and directives, course notes,
		safety program report	Create a written report that assesses a safety program and includes recommendations for improvement	
		fire or emergency preparedness report	Create a written report that assesses a fire emergency preparedness in the workplace.	
		other report	Create a written report that assesses and evaluates an issue of concern at their internship site. Summarize findings and include recommendations	

Appendix A: Assessment Protocol and Rubric

Protocol

Ethics statement for syllabi: *The Safety Sciences undergraduate program is undergoing programmatic evaluation. Please be advised that your writing assignments may be randomly chosen for program assessment purposes. Program assessment activities will have no bearing on your course grade and, should your work be selected, your name will not be attached to it. If you have any questions about program assessment or wish to withdraw permission for use of your work, please contact the Safety Science Writing Coordinator, Dr. Tracey Cekada (cekadat@iup.edu).*

Every two years, faculty teaching SAFE 493/488 (Part-time/Full-time Internship) will assess the final research papers from their own section using the rubric below. Data will be collected and transmitted to the WAC coordinator. Following an initial assessment from Spring and Summer 2019, the ad hoc writing committee will determine whether adjustments should be made to the assessment rubric.

Rubric

Section	Exceeds Expectations (4)	Meets Expectations (3)	Emerging (2)	Below Expectations (1)
Executive Summary (ES)	Content and writing superbly captures appropriate content for ES. Demonstrates strong understanding of principles, problems and needed improvements in the workplace. ES meets reasonable page limits. Exhibits a high degree of effective communication with audience.	Content and writing captures appropriate content for ES. Demonstrates understanding of principles, problems and needed improvements in the workplace. ES is within reasonable page limits. Exhibits effective communication with audience.	Content and writing captures some appropriate content for ES. Demonstrates some understanding of principles, problems and needed improvements in the workplace. ES is near reasonable page limits. Exhibits some effective communication with audience.	Content and writing captures little or no appropriate content for ES. Demonstrates little or no understanding of principles, problems and needed improvements in the workplace. ES is near not near a reasonable page limit. Exhibits little or no effective communication with audience.
Background/ Introduction	Content and writing superbly captures the purpose and scope of the assignment; it superbly states the significance/ relevance of the project and provides background/ supporting information for project need; superbly describes the current hazard/process and current controls in place and their adequacy, if	Content and writing appropriately captures the purpose and scope of the assignment. It appropriately states the significance/ relevance of the project and provides background/ supporting information for project need. It	Content and writing captures some appropriate content for the purpose and scope of the assignment. It captures some of the significance/ relevance of the project and provides some background/ supporting information for	Content and writing captures little or no appropriate content for the purpose and scope of the assignment. It captures little or none of the significance/ relevance of the project and provides little or no background/ supporting

	applicable. Any regulations or best practices driving project need are superbly identified.	appropriately describes the current hazard/process and current controls in place and their adequacy, if applicable. Any regulations or best practices driving project need are appropriately identified.	project need. It describes some of the current hazard/process and current controls in place and their adequacy, if applicable. Any regulations or best practices driving project need are only somewhat identified.	information for project need. It describes little or none of the current hazard/process and current controls in place and their adequacy, if applicable. Little or no regulations or best practices driving the project need are identified.
Findings	Content and writing superbly identifies and describes the findings in detail and supports findings with tables and pictures, when necessary. It superbly describes significance of the findings and identifies any limitations in findings. Findings are organized and presented superbly.	Content and writing appropriately identifies and describes the findings in detail and supports findings with tables and pictures, when necessary. It appropriately describes significance of the findings and identifies any limitations in findings. Findings are organized and presented appropriately.	Content and writing identifies and describes some of the findings and supports some of the findings with tables and pictures, when necessary. It sometimes describes the significance of the findings and identifies limitations in findings. Findings are somewhat organized and presented.	Content and writing identifies and describes little or none of the findings and in little or no detail. Findings are not supported with tables and pictures, when necessary. Little or none of the significance or limitations of the findings are identified. Findings are not organized or effectively presented.
Recommendations	Makes superb recommendations in accordance with hierarchy of controls and provides detail including cost and priority. Superbly supports recommendations through regulations, best practices, etc. Superbly discusses the significance of the recommendations including limitations, when applicable. Superbly organizes recommendations and ties them back to findings.	Makes appropriate recommendations in accordance with hierarchy of controls and provides detail including cost and priority. Appropriately supports recommendations through regulations, best practices, etc. Appropriately discusses the significance of the recommendations including limitations, when applicable. Appropriately organizes recommendations and ties them back to findings.	Identifies some recommendations and provides some detail including cost and priority. Supports some recommendations through regulations, best practices, etc. Discusses the significance of some of the recommendations including limitations, when applicable. Sometimes organizes recommendations and ties them back to findings.	Makes few to no recommendations and/or not in accordance with hierarchy of controls. Provides little to no detail on cost and priority. Provides little to no support of recommendations through regulations, best practices, etc. Does little or nothing to discuss the significance of the recommendations including limitations, when applicable. Rarely or never organizes recommendations and ties them back to findings.
Conclusion	Content and writing superbly summarizes major findings and recommendations without being redundant. States significance of needed changes superbly.	Content and writing appropriately summarizes major findings and recommendations without being redundant. States significance of needed	Content and writing summarizes some major findings and recommendations. Some redundancy identified in recommendation. Sometimes states	Content and writing summarizes little to none of the major findings and recommendations. Redundancy identified in recommendations. Little to no discussion

		changes appropriately.	significance of needed changes.	of significance of needed changes.
Spelling, punctuation, and grammar	Ample evidence of superior writing skills. Consistently uses appropriate sentence structure, punctuation and spelling. Writing style is tailored for appropriate audience.	Evidence of strong writing skills. Frequently uses appropriate sentence structure, punctuation and spelling. Writing style is sometimes tailored to appropriate audience.	Inconsistency in writing skills. Inconsistently uses appropriate sentence structure, punctuation and spelling. Writing style is not always tailored to appropriate audience.	Lacking in appropriate writing skills. Frequent errors in sentence structure, punctuation and spelling. Writing style is unsuitable for audience.
Other	Layout and design demonstrates superb use of aesthetic principles. Superbly uses tables, figures, pictures to support report and makes reference to them in text. Adheres to APA referencing format throughout report. Report provides superb readability and flow.	Layout and design demonstrates appropriate use of aesthetic principles. Appropriately uses tables, figures, pictures to support report and makes reference to them in text. Regularly adheres to APA referencing format throughout report. Provides appropriate readability and flow.	Layout and design demonstrates some use of aesthetic principles. Sometimes uses tables, figures, pictures to support report and makes reference to them in text. Sometimes adheres to APA referencing format throughout report. Provides some readability and flow.	Layout and design demonstrates little to no use of aesthetic principles. Rarely or never uses tables, figures, pictures to support report and makes little to no reference to them in text. Rarely or never adheres to APA referencing format throughout report. Report is difficult to read and follow.

Appendix B: Assessment Results

Areas in which student writing is ABOVE standard: 77+

None

Areas in which student writing is MEETING standard: 68-77

Holistic:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	74% = 0%/74% (0/20)	26% = 22%/4% (6/1)

Background/Introduction:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	74% = 0%/74% (0/20)	26% = 26%/0% (7/0)

Findings:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	70% = 0%/70% (0/19)	30% = 19%/11% (5/3)

Spelling, Punctuation, Grammar:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	70% = 0%/70% (0/19)	30% = 26%/4% (7/1)

Areas in which student writing is BELOW standard below 67 and below

Methods:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	63% = 0%/63% (0/17)	37% = 22%/15% (6/4)

Executive Summary:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	67% = 0%/67% (0/18)	33% = 26%/7% (7/2)

Recommendations:

year(s)	exceeds/meets	emerging/below
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2019-2020 N=27	52% = 0%/52% (0/14)	48% = 26%/22% (7/6)
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Conclusions:

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	56% = 0%/56% (0/15)	45% = 19%/26% (5/7)

Other (Layout, Tables, References, etc):

year(s)	exceeds/meets	emerging/below
2019-2020 N=27	67% = 0%/67% (0/18)	34% = 30%/4% (8/1)

Analysis of Assessment Results and Recommendations from the WAC Director

The majority of students (between 52 and 74%) in this sample are meeting expectations for the defined writing criteria, although the department would like to see a higher percentage (closer to 80%) of students doing so. Holistic results (74% meeting expectations) align closely with several criteria (background/introduction, findings, and grammar) and are within 10 percentage points of two others (executive summary and other) demonstrating that the holistic rating is a reliable measure of students' writing skills overall, and that the department value these criteria that most closely match up with the holistic score as evidence of good writing.

Over the next two years, department faculty will review this DWP and use these assessment results for professional development and curriculum revision as they deem appropriate. To make the most out of this time toward improving student writing skills and therefore assessment results, my recommendations are as follows:

- (Re)consider the highest end of the rubric: it seems unusual that no student writing scored in the highest range in any of the criterion. Faculty should discuss what it really would take to score in that range and if those expectations are realistic for graduating seniors. Oftentimes we think about "ideal text" as the highest standard of professional writing, when exceeding expectations as someone only just entering the field would not necessarily have that mastery.
- In almost all categories, somewhere hovering around 30% of students are in the "emerging" range. This suggests that overall writing pedagogy could be aimed more toward students who are emerging. Faculty could spend time considering ways to focus on students who are "getting it" but need a bit of extra support to really meet expectations. If that 30% of students in those five criteria were supported enough to move to "meeting expectations," then in almost all criterion, a huge majority of students would be meeting the departments standards for good writing.
- The department should look carefully at criteria where 20% or more of students are below expectations (conclusions and recommendations) and consider ways to revise pedagogy and/or support all students in improving these skills. Department instructors who feel confident in their teaching in those areas or the WAC director could run workshops for the full faculty in these specific areas.