### Rubric

### I. Why do we need to use rubrics?

The capstone course is the last course set by the department (institute), which has the functions of integrating, summarizing, reflecting on the department's learning experience, transitioning to the future career, and serving as the department's review of the curriculum structure. There are two main reasons for using rubrics in the capstone course. One is that the course usually involves different professional teachers or industry teachers to grade or review, so a public, fair, and impartial evaluation becomes crucial, which can allow all teachers or industry teachers to clearly evaluate the indicators and reduce the risk of subjective grading. The other is to guide students to learn more effectively. Through rubrics, students can clearly understand the learning focus and expected goals of the course. In addition, through the grading results, students can identify their strengths and weaknesses and know how to improve and learn better.

#### II. What is a rubric?

A rubric is a tool for setting grading criteria, combining qualitative descriptions and quantitative scores, to assess students' specific assignments or performances. Each criterion clearly states the level of achievement, so that students can understand the learning outcomes of each criterion, and then understand their own strengths and weaknesses and areas that need improvement, making learning meaningful, rather than just getting a single total score. The rubrics related to the course include project reports, essays, and internships. The following are the reference websites for the relevant rubrics. The departments can adjust them to the appropriate assessment indicators according to the learning objectives. In addition, the following are the rubrics used by the departments. Thank you to these departments for their generosity.

### The reference websites for rubrics are as follows:

- iRubrics <a href="https://reurl.cc/pr6yZ8">https://reurl.cc/pr6yZ8</a> (Provides rubrics for different learning stages, topics, and assessment types)
- Syracuse University <a href="https://reurl.cc/rr5x2r">https://reurl.cc/rr5x2r</a> (Provides rubrics for specific tasks in different professional fields, such as dissertations)
- University of Colorado Boulder Center for Teaching and Learning <a href="https://reurl.cc/qrLm0y">https://reurl.cc/qrLm0y</a> (Provides rubrics for specific skills, such as creative thinking and teamwork, and specific assessment types, such as projects and research papers)

	Examp	ole (1) Proj	ect kepor	l Kubric		
	1			Total score :		
Grading level and Assessment indicator	Needs improvement (5)	Acceptable good (7)	Good (9)	Excellent (10)	Allocation	score
Communication skills	<ul> <li>□Off-topic or incorrect statements.</li> <li>□Unclear expression, reading from a script, ignoring the audience.</li> </ul>	<ul> <li>□Statements are related to the topic but incomplete; logic is loose.</li> <li>□Expression is clear but often needs to look at the script, occasionally makes eye contact with the audience.</li> </ul>	<ul> <li>□Statements are consistent with the topic; logic is clear.</li> <li>□Expression is clear and smooth; often makes eye contact with the audience.</li> </ul>	<ul> <li>Statements are indepth on the topic; logic is clear and rigorous.</li> <li>Expression is captivating; eye contact is natural and attentive to the audience, and the presentation is well-matched.</li> </ul>	10	
Presentation production	<ul> <li>□Font is too small or too many, no paragraphing or some words are outside the screen, covered or hard to recognize.</li> <li>□No charts/videos or charts/videos are inappropriate, not helpful for understanding.</li> </ul>	□Font is too small or too many, no paragraphing or some words are outside the screen, covered or hard to recognize. □No charts/videos or charts/videos are inappropriate, not helpful for understanding.	<ul> <li>□Font and layout are ordinary, no obvious flaws.</li> <li>□There are charts/videos, but the effect is mediocre.</li> </ul>	<ul> <li>Font is clear, easy to see, and has appropriate colors and layout.</li> <li>There are suitable charts/videos, which help understanding and increase attractiveness.</li> </ul>	10	
Outcome content	<ul> <li>□Content structure is incomplete, and lacks coherence and logic.</li> <li>□No analysis or comparison is presented, unfamiliar with the field's professional knowledge.</li> </ul>	□Content structure is acceptable, but the overall coherence and logic are poor. □Some preliminary analysis is conducted and the field's professional knowledge is adequate.	<ul> <li>□Content structure is fairly complete, overall coherence and logic are acceptable.</li> <li>□Some analysis is conducted, the field's professional knowledge is understood and supplemented.</li> </ul>	<ul> <li>The report content has a complete organizational structure; there are new ideas or specific methods.</li> <li>There are in-depth and insightful analysis and comparison; the field's professional knowledge is used skillfully.</li> </ul>	10	
Topic innovation	□The report is not very relevant to the course or its main point, and lacks the institutional policies, cases, or practices of	□The report is related, but the topic lacks focus, or there are several topics with little relevance, and fails to	□The report has focused on the relevant points, with cases or literature review and fieldwork.	□The report is related to the course and focuses on a specific topic, exploring the policies, cases, and practices of the actual	10	

# **Example (1) Project Report Rubric**



	the actual organizations.	explore in depth.		institutions.		
Time management and Audience response,	<ul> <li>□More than or less than 5 minutes.</li> <li>□No audience questions.</li> </ul>	<ul> <li>□More than or less than 3-5 minutes.</li> <li>□One audience question.</li> </ul>	<ul> <li>□More than or less than 1-3 minutes.</li> <li>□Some audience questions (2-3 times).</li> </ul>	<ul> <li>□More than or less than 1 minute.</li> <li>□Lively questions (more than 4 times).</li> </ul>	10	

Note: Please check ( $\checkmark$ ) one or two levels for each evaluation indicator, and calculate the total score after averaging or weighting; written comments are also welcome.

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## **Example (2) Project Report Rubric**

Grading	Excellent	Good	Acceptable	Needs improvement	
criteria	(80-100 points)	(60-80 points)	(40-60 points)	(0-40 points)	
ernerna	1. Focus on the topic of	1. The research topic is	1.The research topic is	1.The topic is not	
	photoelectricity and	related to the topic of	somewhat related to	related to	
	explore it in depth.	photoelectricity, but	the optoelectronic	optoelectronics.	
	2. Have rich content of	not explored in depth.	field, but there is no	2.The research data is	
	research motivation,	2. There are research	in-depth discussion.	insufficient and there	
	experimental method,	motivation,	2.The research	are no research	
	and research results.	experimental method,	motivation,	results.	
	3. Have a complete	and research results,	experimental method	3.The report content is	
1. Topic and	logical structure and	but the content is not	and research results	incomplete, lacking	
Content	coherence in the	clear enough.	are less and unclear.	logic organization	
(40%)			3.The report content is	and coherence.	
(40%)	report content.	3. The report content	-		
	4. Have in-depth data	has some logical	acceptable, but the	4.No data analysis,	
	analysis, comparison,	structure and	logic organization	comparison	
	discussion, and	coherence.	and coherence are	discussion and	
	evaluation.	4. There are data	poor.	evaluation are done.	
		analysis, comparison,	4.Only preliminary data		
		discussion, and	analysis, comparison		
		evaluation, but not	discussion and		
		deep or clear enough.	evaluation are done.		
	1.The poster layout is	1.The poster layout and	1.The poster layout and	1.The poster layout and	
	reasonable, the font is	font presentation are	font presentation are	font presentation are	
	clear, and it makes	ordinary, with no	acceptable.	poor, unclear and	
	people feel good	obvious errors.	2. There are charts, but	have obvious errors.	
	visually and	2.There are charts, but	some have low	2.There is no chart	
2. Poster	understand at a	they are not clear	relevance to the	presentation, or the	
Production	glan <mark>ce.</mark>	enough.	research.	chart presentation is	
(30%)	2.There are appropriate	3.There are about 1-2	3.There are about 3-5	inappropriate.	
	charts to help	errors in typos or	errors in typos or	3. There are more than 6	
	understand.	symbols.	symbols.	errors in typos or	
	3.There are no typos			symbols.	
	and the sy <mark>mbols</mark> are				
	correct.				
	1.Speak clearly and in		1.The spoken language	1.Spoken language is	
	an organized manner	is clear and coherent,	is scarce or unclear,	sparse and	
	so that the listener	so that the audience	and some	incoherent, making it	
	can easily	can understand.	explanations make	difficult for the	
	understand.	2.The volume and	people miss the point.	audience to	
	2.The volume and	intonation are clear,	2.The volume and	understand and miss	
3. Presentation Style (30%)	intonation are clear.	but occasionally read	intonation are	the point.	
	Adjust the speed	according to the	acceptable, but about	2. Volume and tone are	
	according to the	script, and	half of the time there	monotonous, almost	
	listener's response	occasionally there are	is a situation of	as written, and there	
	and guide the content	auxiliary guiding	reading according to	is no auxiliary guide	
	appropriately.	content.	the script, and there is	content.	
	3.Time control is	3. Time control is poor,	almost no auxiliary	3. Time control is poor,	
	within 8-10 minutes.	about 6-8 minutes or	guidance content.	about 2-4 minutes.	
		10-12 minutes.	3. Time control is poor,		
			about 4-5 minutes.		
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## **Example (3) Evaluation Scale for Interpersonal Communication**

Evaluation level evaluation items	4 Excellent	3 Proficient	2 Meet basic requirements	1 Need improvement
1.Listening, questioning and dialogue discussion.	Listen, interact, discuss, and guide all team members to contribute insights to reach group consensus with courtesy and respect.	Listen, interact, discuss, and offer personal opinions courteously and respectfully.	Able to listen politely and respectfully, and be guided by others to bring personal opinions to participate in discussions.	Unable to listen respectfully or participate in group interactions and discussions.
2.Group division and responsibility undertaking.	Able to actively participate in the division of labor discussions, coordinate and integrate the opinions of the group, and share responsibilities appropriately.	Actively participate in the division of labor discussions, accept the group consensus, and be willing to share responsibilities.	Able to participate in the division of labor discussions, willing to accept group consensus and share responsibilities.	Did not participate in group division of labor discussions or ignore group consensus or refuse to share responsibilities.
3.Information sharing and task understanding.	Can clearly grasp the group project goals and proactively share all kinds of information.	Can roughly grasp the group project goals and be willing to share all kinds of information.	Able to grasp the goals of the group plan and share various information.	Unable to grasp the group project goals or refuse to share various information.
4.Collaborative execution and goal achievement.	Can encourage and facilitate teamwork, and often take care of the progress of the members in the group, to achieve the expected goals.	Can participate in teamwork, complete assigned tasks properly, and achieve expected goals.	Able to participate in group work, but only need to be reminded or assisted by others to complete the task.	Unable to participate in group work or complete individually assigned tasks.
5.Online communication and etiquette.	Write or reply online without grammar, spelling, or other errors, interact politely, and facilitate communication.	Write or reply online with few grammar, spelling, or other errors, and interact politely to communicate.	Interact politely online, but often make grammar, spelling, or other errors in writing or replying, which can cause misunderstandings.	Writing or replying online with many grammar, spelling, or other errors, or interacting impolitely, disrespectfully, or rudely, hinders communication.

## and Teamwork

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