Leveraging EAC Blackboard's Assessment and Accreditation Solution for Computing Programs' Assessment and ABET Accreditation

Mostafa El-Said, Ph.D.

Professor, School of Computing Assessment and Accreditation Director Padnos College of Engineering and Computing Grand Valley State University Allendale, MI 49418

Tel: (616) 331-8686

Email: <u>elsaidm@gvsu.edu</u>

Samah Mansour, Ph.D.

Assistant Professor, School of Computing Graduate Program Director for MS Cybersecurity Padnos College of Engineering and Computing Grand Valley State University Allendale, MI 49418

Tel: (616) 331-3051

Email: <u>mansours@gvsu.edu</u>



Agenda

- Introduction
- Importance of accreditation
- Why do we care about ABET accreditation?
- ABET Organization
- ABET Philosophy
- Principles of program assessment
- Challenges of leading and implementing assessment
- Conceptual model for the program continuous improvement
- How can Blackboard's assessment solution help us?
- The use EAC as a data collection, analysis and visualization engine

Our Backgrounds



Dr. Mostafa El-Said

Dr. Samah Mansour

Grand Valley State University



- Public University
- Located in West Michigan
- Three main campuses and four regional centers

NUMBER OF STUDENTS	DEGREES OFFERED	EMPLOYEES
Total : 22,269	Total : 145	Number of
Undergraduate:	Undergraduate:	Faculty:
19,243	100	1,234
Graduate : 3,026	Graduate: 45	Support
		Staff : 1,887

School of Computing

Undergradua	te	General Information		
Program	# of Student			
Computer Science	627			
Cybersecurity	158	# of Faculty members: 16		
Information Technology	95	# of Faculty members: 46 Average Class Size: 26		
Information Systems	86			
Graduate		Computing Accreditation		
Program	# of Students	ABET Commission		
Applied Computer Science	168	Accreditation		
Cybersecurity	49	Accredited Programs: Computer Science Information Technology		
Data Science and Analytics	110	Accredited Programs: Computer Science, Information Technology, and Information Systems		
Health Informatics and Bioinformatics	71	Program to be Accredited : Cybersecurity and Data Science <u>https://www.gvsu.edu/computing/accreditation-132.htm</u>		



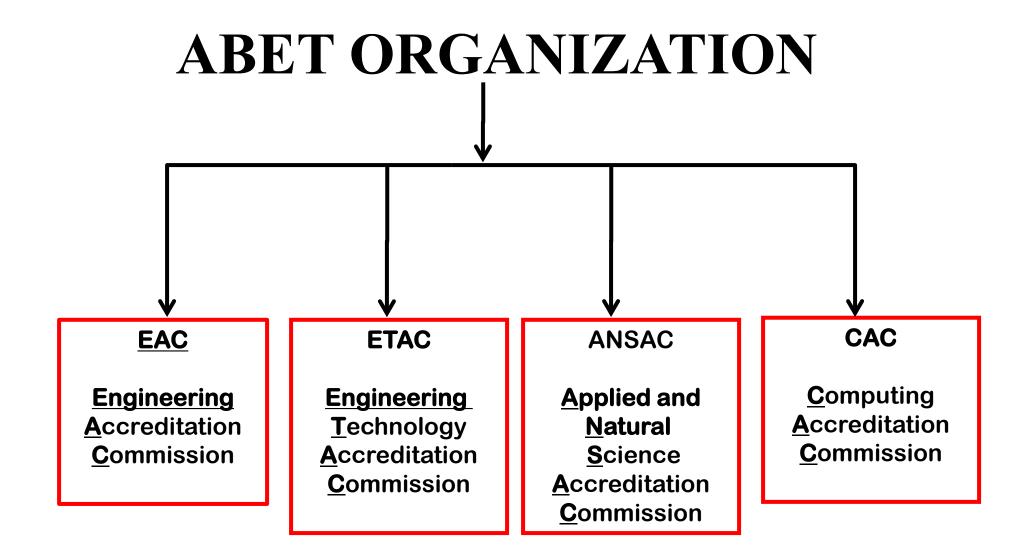
PollEv.com/mostafaelsaid056

Importance of Accreditation

- <u>Accreditation is used to assure quality in educational programs</u>. Accreditation is a voluntary, non-governmental process of peer review. It requires an educational program to meet certain defined standards or criteria.
- The <u>Accreditation Board for Engineering and Technology</u> (<u>ABET</u>) is a professional accrediting organization that <u>accredits programs</u>, <u>not institutions</u>.
- Accreditation serves to notify:
 - Parents and prospective students that a program has met professional standards;
 - Faculty, deans and administrators of a program's strengths and weaknesses and of ways to improve the program;
 - Employers that graduates are prepared to begin professional practice;
 - Taxpayers that their funds are spent well;

Why do we care about ABET accreditation?

- ABET audits programs on a regular basis to ensure that the program maintains high standards.
- The accreditation criteria help to define what your program should provide your students.
- The accreditation process helps the programs to continually analyze and improve their courses and curriculum.
- The accreditation process requires that the voices of all stakeholders to be heard in evaluating the program.



Accreditation Numbers



512 institutions received accreditation under the CAC commission.

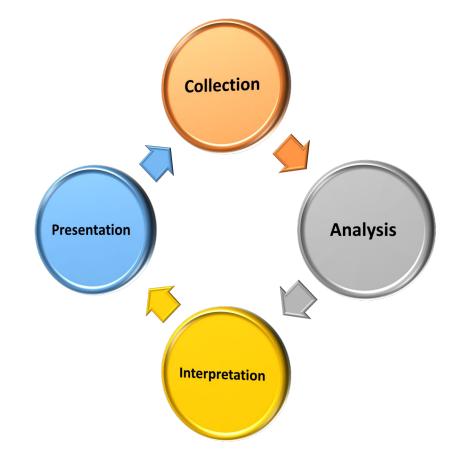
ABET PHILOSOPHY

- Each Institution and Program defines its own mission and objectives to meet the needs of its constituents.
- Emphasizes outcomes that prepare graduates for the job market.
- Programs must demonstrate how their criteria and educational objectives are being met.
- Programs must design processes leading to continuous program improvement.



PRINCIPLES OF PROGRAM ASSESSMENT

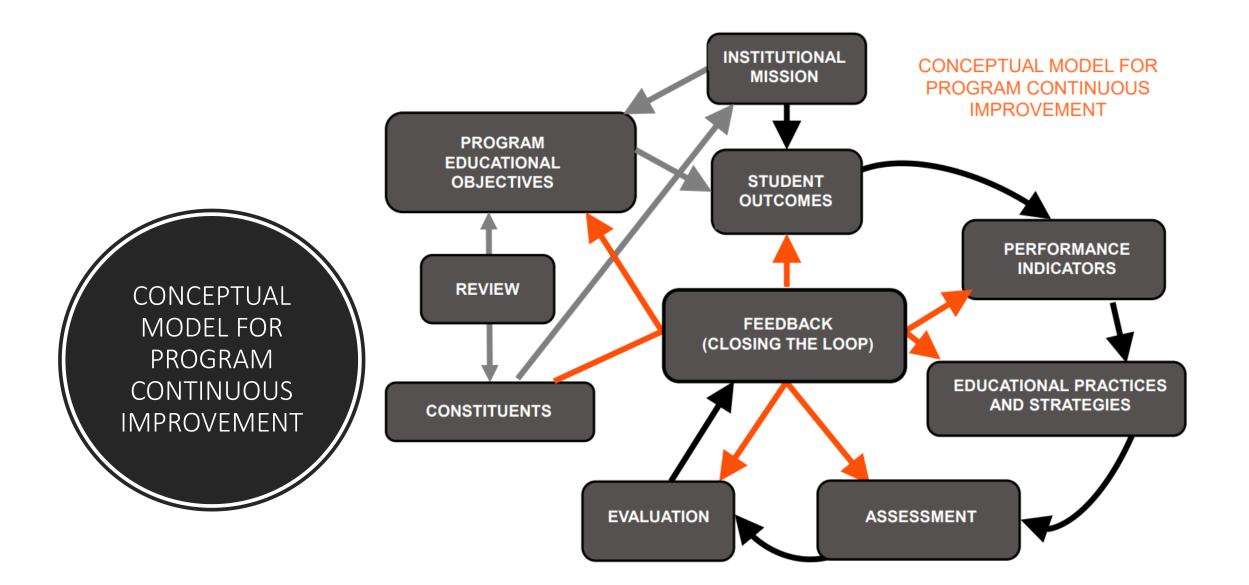
- Student learning is cumulative over time
- What students learn in one course, they use, practice, and develop in other courses.
- Program Assessment is a systematic process.

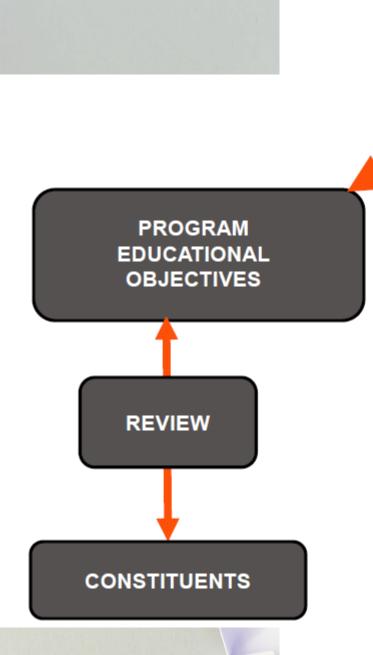


Each program is unique

CHALLENGES OF LEADING AND IMPLEMENTING OUR PROGRAM ASSESSMENT

- Create a common ground
- Adapt to the growth
- Build assessment teams
- Automate the data collection and analysis system





CRITERION 2: PROGRAM EDUCATIONAL OBJECTIVES

Program Educational Objectives

• (PEOs): are broad statements that describe the <u>career and professional accomplishments</u> that the program is preparing its graduates to achieve a few years after graduation.

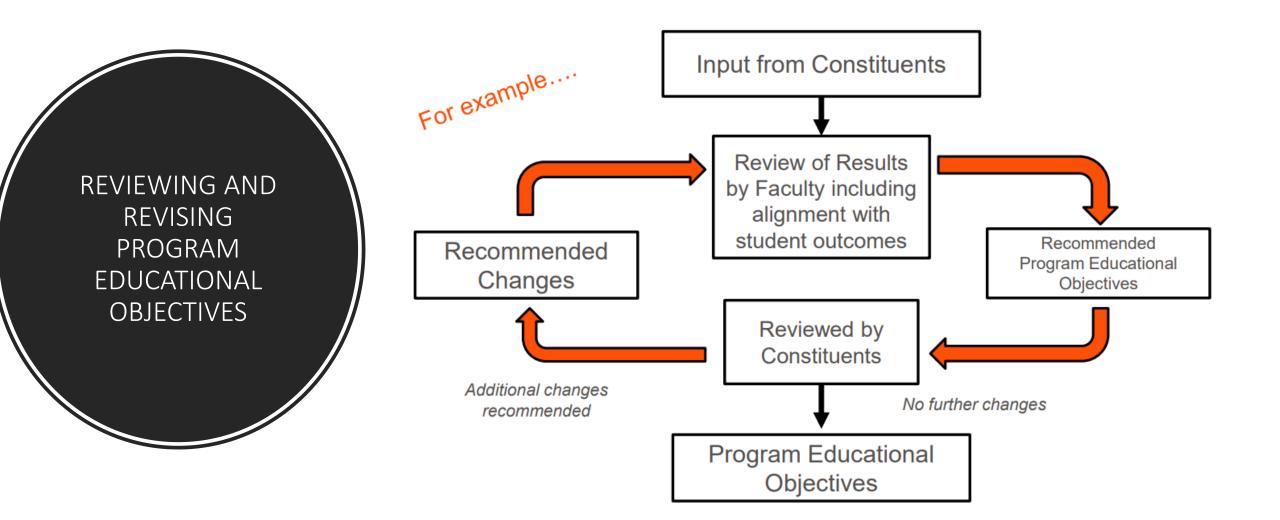
Program Constituents

• Alumni

INSTITUTIONAL

MISSION

- Employers
- Professional organizations



Example: GVSU's CS Program PEOs

Few years after graduation, our typical Computer Science alumni are expected to be computing professionals who:

- 1. Use technical, communication, and teamwork skills to solve problems and develop software systems
- 2. Continue to develop their **professional knowledge and skills**
- **3. Behave ethically** while contributing to their profession and to society

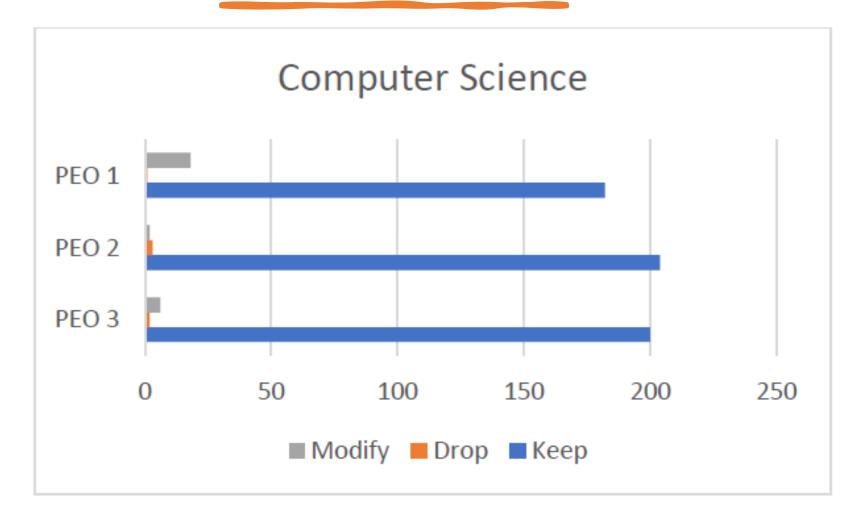
MAPPING OF THE PROGRAM EDUCATIONAL OBJECTIVES WITH THE MISSION OF THE INSTITUTION The school mission includes three distinct goals. Our computer science PEOs align with each of the goals:

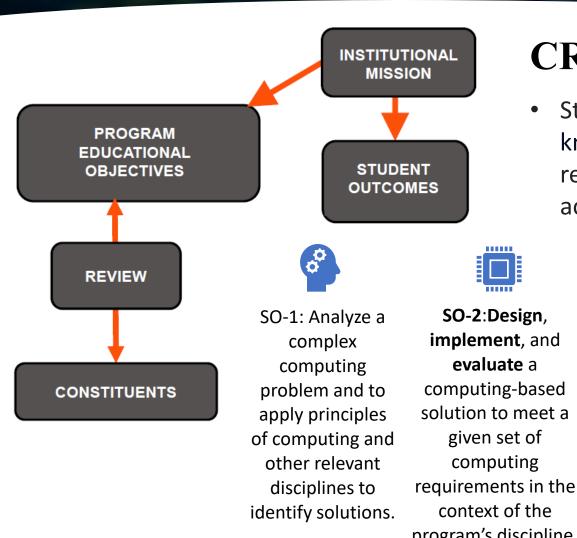
- Educate students to shape their lives One way for alumni to shape their lives is to have the skills needed for life-long learning. This ability aligns with our PEO for alumni to "continue to develop their professional knowledge and skills."
- Educate students to shape their professions Alumni shape their professions by being productive and effective professionals. This is accomplished by having strong fundamentals and a variety of interpersonal and technical skills. This aligns with our PEO for CS alumni to "use technical, communication, and teamwork skills to solve problems and develop software systems."
- Educate students to shape their societies This goal aligns with our PEO for alumni to "behave ethically while contributing to their profession and to society."

Mapping of constituencies needs and PEOs

Constituency Needs	Professional Skills	Life-long Learning	Professional Responsibility
Students			
Ability to be employed in the computing field	X		
Ability to further their careers		Х	Х
Employers			
Ability to work in teams	X		
Strong communication skills	X		
Problem-solving skills	X		
Ability to adapt to new technologies		Х	
Technical skills	X		
Honesty and integrity			Х
Professional Organizations			
Computing professionals to be trusted by society			Х
Computing professionals to be competent	X		

Number of stakeholders who recommend keeping, modifying or dropping PEOs





CRITERION 3: STUDENT OUTCOMES

 Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program.

SO-3:Communicate effectively in a variety of professional contexts.

ΩŢΛ

SO-4: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.



SO-5: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.



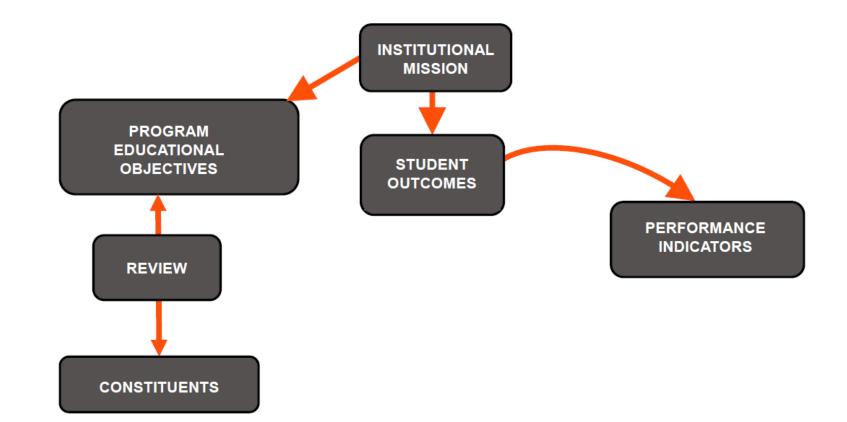
CRITERION 4: CONTINUOUS IMPROVEMENT

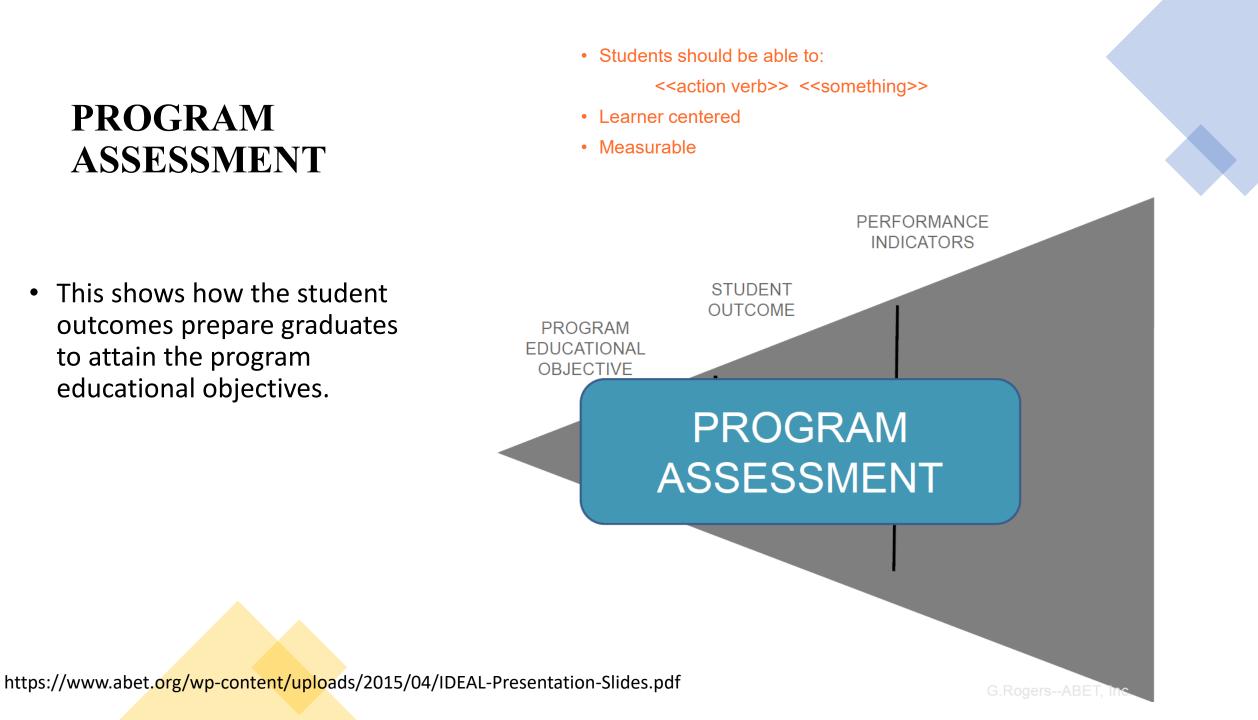
- The program must regularly use appropriate, documented processes for assessing and evaluating the <u>extent to which the student outcomes</u> are being attained.
- The results of these evaluations must be systematically utilized as input for the program's continuous improvement actions.
- Other available information may also be used to assist in the continuous improvement of the program.

Previous Practices of Assessing the Student Outcomes (SOs)

SOURCE	TERM	YEAR CRITERIA	BELOW MEE	ETS EXC	CEEDS ABO	VE M+E N	BEL	OW% ME	ETS% EXC	EEDS% AB	OVE% M+E						
CIS241	W	2018 Analysis	9	32	28	60	69	13%	46%	41%	87%						
CIS241	W	2018 Development	7	9	53	62	69	10%	13%	77%	90%						
CIS241	W	2018 Analysis	16	31	22	53	69	23%	45%	32%	77%						
CIS241	W F	2018 Design	4	3	62	65	69	6% 1.0%	4%	90%	94%						
CIS241 CIS241	F	2019 Communication 2019 Analysis	3	12	18 16	27 28	30 30	10% 7%	30% 40%	60% 53%	90% 93%						
CIS241 CIS241	F	2019 Development	4	5	21	26	30	13%	17%	70%	87%						
CIS241	F	2019 Analysis	7	11	12	23	30	23%	37%	40%	77% -	 					
CIS241	F	2019 Design	2	4	24	28	30	7%	13%	80%	93%						
CIS263	F	2015 Analysis	4	16	40	56	60	7%	27%	67%	93%		_				
CIS263	F	2015 Analysis	10	20	30	50	60	17%	33%	50%	83%		5			es	
CIS263	F	2015 Analysis	8	30	18	48	56	14%	54%	32%	86%		iti		lt l	19	
IS263 IS263	F W	2015 Design 2019 Analysis	13 15	10 3	35 1	45 4	58 19	22% 79%	17% 16%	60% 5%	78% 21%		ič.		lie al	bil	
CIS263	W	2019 Analysis 2019 Analysis	3	3 4	11	15	19	17%	22%	61%	83%	IS.	들		d	ISI.	
CIS290	W	2020 Responsibilities	3	32	13	45	48	6%	67%	27%	94%	Analysis	Ĩ	5	မို	01	
CIS290	W	2020 Communication	0	25	23	48	48	0%	52%	48%	100%	al	E	Si.	N.	ds	
>	CS - F	CAR DATA CY - FCAR DATA	IS - FCAR DATA	IT - FCAR DA	та +		: •					An	Communication	Design	Development	Responsibilities	
						enior Ex eneral I		-	ort			 	67% 35%		66%	56%	
						equired	Course	es									
					C	IS162						88%		69%	86%		
					C	IS163						81%	78%	72%			
	-					IS241						83%	89%	94%	88%		
No	. of	computer scier	nce			IS263						52%					
stu	den	ts who meet &	exceeds	5		IS290							100%			88%	
<u></u>	an ct	ations for asch	studant		\mathbf{C}	IS343						92%	91%		94%		
-		ations for each				IS350						 77%	92%	83%	95%	98%	
out	tcon	ne (2017-2020)				IS351						87%		86%			
						IS353						 80%		81%			1
						IS452						 74%		100%	85%		
						IS457						 91%			90%	95%	
					\mathbf{C}	IS467							97%		97%	95%	

NEW PRACTICES: PERFORMANCE INDICATORS





PROGRAM ASSESSMENT

PROGRAM EDUCATIONAL OBJECTIVE

> Use technical, communication, and teamwork skills to apply cybersecurity principles to protect systems and data from a variety of threats.

STUDENT OUTCOMES

SO-2: Design,

a given set of

context of the

computing

implement, and

evaluate a computing-

based solution to meet

requirements in the

program's discipline.

PERFORMANCE INDICATORS

> **SO2-PI-I:** Design a disciplinespecific computing-based solution that meets client needs and constraints.

SO2-PI-2: Implement a disciplinespecific solution using appropriate techniques and technology.

SO2-PI-3: Evaluate the solution to prove that it meets the given requirements in a discipline-related situation.

Example: SO2

SO-2: <u>Design</u>, <u>implement</u>, and <u>evaluate</u> a computingbased solution to meet a given set of computing requirements in the context of the program's discipline.

Performance Indicators for the CS Program

Perf. Criteria	Criterion 3 Student Outcomes	Performance Indicators (PIs)
SO1: Analysis	SO1. Analyze a <u>complex</u> computing	SO1-PI-1: Identify the various components of the computing problem.
	computing and other relevant	SO1-PI-2: Apply principles of computing and other relevant disciplines to formulate the possible solutions. SO1-PI-3: Justify a viable solution to the problem.
SO2: Design	SO2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the	SO2-PI-1: Design a discipline-specific computing-based solution that meets client needs and constraints. SO2-PI-2: Implement a discipline-specific solution using appropriate techniques and technology.
	context of the program's discipline.	SO2-PI-3: Evaluate the solution to prove that it meets the given requirements in a discipline-related situation.
SO3: Communication	SO3. Communicate effectively in a variety of professional contexts.	SO3-PI-1: Explain technical concepts orally using terminology appropriate to audience.
		SO3-PI-2: Explain technical concepts in writing using terminology appropriate to audience.
		SO3-PI-3: Use a logical organizational pattern in an oral presentation that enhances understanding.
		SO3-PI-4: Use a logical organizational pattern in a written document that enhances understanding.
SO4: Responsibilities	responsibilities and make informed judgments in computing practice based on <u>legal</u> and <u>ethical</u> <u>principles</u> .	SO4-PI-1: Recognize the responsibilities inherent to the profession based on a discipline-specific code of ethics.
		SO4-PI-2: Recognize legal responsibilities inherent to the profession.
		SO4-PI-3: Justify decisions in computing practice based on legal and ethical principles.
		SO4-PI-4: Assess local and global impacts of computing solutions on individuals, organizations and society.
SO5: Teamwork	SO5. Function effectively as a	SO5-PI-1: Participates in the establishment of goals and workplan of the team.
	member or leader of a team engaged in activities appropriate to the program's discipline.	SO5-PI-2: Contribute to a collaborative team effort.
SO6: Development	SO6. Apply computer science theory and software development	SO6-PI-1: Determine the most appropriate data structures needed to solve a problem.
	fundamentals to produce	SO6-PI-2: Analyze whether a given algorithm provides an efficient and effective solution to solve a problem.
		SO6-PI-3: Develop a computing solution using an approriate programming

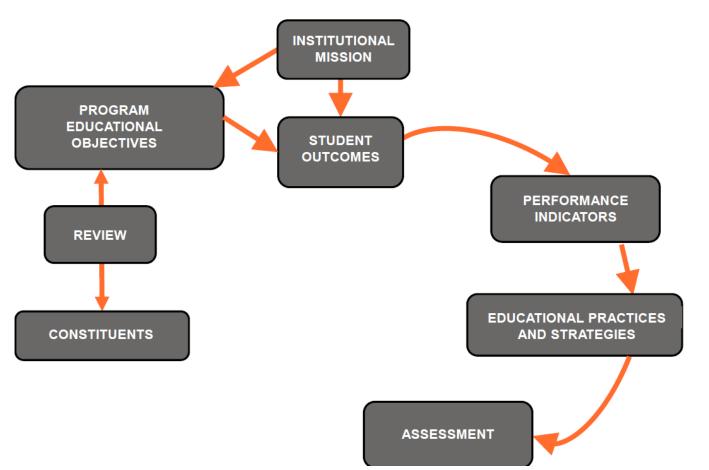
LINKING RESULTS TO PRACTICE

- Development of Curriculum Map
- Linking curriculum content/ pedagogy to knowledge, practice and demonstration of performance indicators.

PURPOSE OF CURRICULUM MAP

- Demonstrates the alignment of the curriculum to student outcomes/performance indicators
- Enhances decisions about where to **collect** data for formative and summative assessment
- Guides the evaluation process and decision-making about curriculum improvements

Perf Criteria	Criterion 3 Student Outcomes (SOs)	Performance Indicators (PIs)	Introdu ced (I)	Reinforc ed (R)	Mastery (M)
SO1:	SO1. Analyze a <u>complex</u>	SO1-PI-1: Identify the various components of the	353	343 <i>,</i> 350, 351	152 15
apply principles of computing and other relevant disciplines <u>to</u>		computing problem. SO1-PI-2: Apply principles of computing and other relevant disciplines to formulate the possible solutions. SO1-PI-3: Justify a viable solution to the problem.			241, 452
SO2: Design	evaluate a computing-based solution to meet a given set	SO2-PI-1: Design a discipline-specific computing- based solution that meets client needs and constraints.	353	350	452, 45
	of computing requirements in the context of the	SO2-PI-2: Implement a discipline-specific solution using appropriate techniques and technology.	162 <i>,</i> 353	350, 351	452 45
	program's discipline.	SO2-PI-3: Evaluate the solution to prove that it meets the given requirements in a discipline-related situation.	353	350, 351	·
SO3:	SO3. Communicate	SO3-PI-1: Explain technical concepts orally using	333	550, 551	452,45
Communicat	ieffectively in a variety of	terminology appropriate to audience.	350	???	467
on	professional contexts.	SO3-PI-2: Explain technical concepts in writing using terminology appropriate to audience.	350	343, 452	467
		SO3-PI-3: Use a logical organizational pattern in an oral presentation that enhances	050	222	4.67
		understanding. SO3-PI-4: Use a logical organizational pattern in a written document that enhances understanding.	350 163, 350	??? 343	467 467
SO4: Responsibilit es	SO4. Recognize professional iresponsibilities and make informed judgments in	_	350	???	290, 46
computing practice		SO4-PI-2: Recognize legal responsibilities inherent to the profession.	???	290	???
		SO4-PI-3: Justify decisions in computing practice based on legal and ethical principles.	???	290	467
		SO4-PI-4: Assess local and global impacts of computing solutions on individuals, organizations	222	222	200
SO5:	SO5. Function effectively as	and society. SO5-PI-1: Participates in the establishment of	???	???	290
Toomwork	a mombor or loador of a	goals and workplan of the team	250	222	452 4



HOW DO WE KNOW WHAT STUDENTS KNOW?

• "...assessment uses relevant direct, indirect, quantitative and qualitative measures as appropriate to the outcome being measured."

METHODS and TYPES OF ASSESSMENT

DIRECT

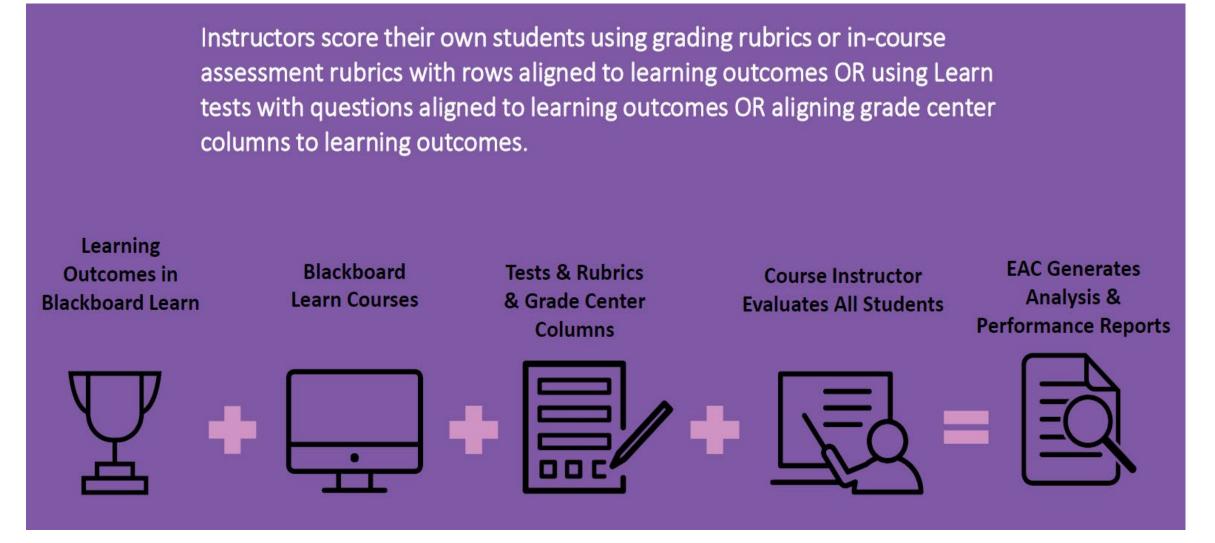
- Exit and other interviews
- Standardized exams
- Locally developed exams
- Portfolios
- Simulations
- Performance Appraisal
- External examiner
- Oral exams

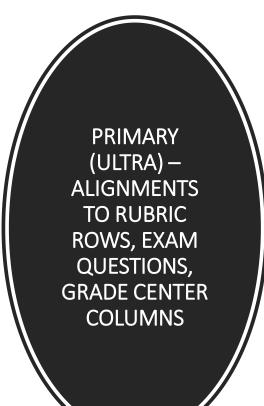
INDIRECT

- Written surveys and
 - questionnaires
- Exit and other interviews
- Archival records
- Focus groups

HOW CAN BLACKBOARD'S ASSESSMENT SOLUTION HELP YOU?

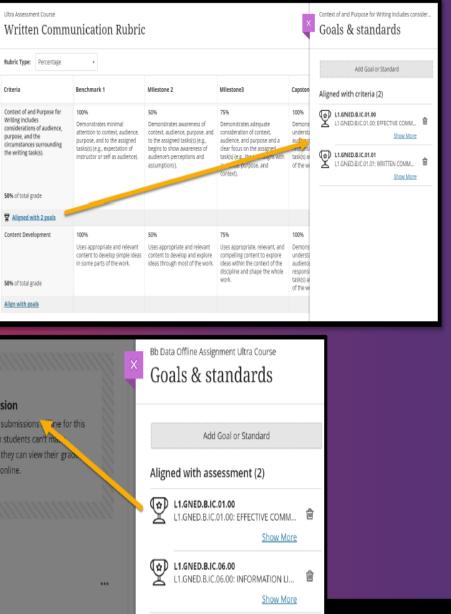
PRIMARY ASSESSMENT / INSIDE-THE-COURSE EVALUATION OF STUDENTS





Rubric Rows, Test Questions, and Grade Center Columns aligned to Learn Goals

	Content and Settings	×	No Multiple Arswer Quiz Goals & standards		considerations of audience, purpose, and the circumstances surrounding the writing task(s).	attention to context, audience, purpose, and to the assigned tasks(s) (e.g., expectation of instructor or self as audience).
Test Content		Test	Add Goal or Standard		50% of total grade	
Question 1	···	ee 1			Aligned with 2 goals	
What is 2 + 2?			Aligned with questions (1)		Content Development	100% Uses appropriate and relevant
Choose at least one correct answer		9	U.I.GNED.B.I.C.03.00 Question 1 L1.GNED.B.I.C.03.00: QUANTITATIVE RE			content to develop simple ideas in some parts of the work.
(A) 3			Show More		50% of total grade	
1 4	Correct answer				Align with goals	
© 5						
(b) 6		D g				
Question 2	(10 points) •••	Ð				
			assessment	o colleci . Thoug s online	t submissions the for h students can't may , they can view their grad	
			resentation Content			
			vill grade your Presentations here. Thanks!			



https://www.anthology.com/products/teaching-and-learning/learning-effectiveness/blackboard-learn

Current Practices of Assessing the Student Outcomes (SOs)

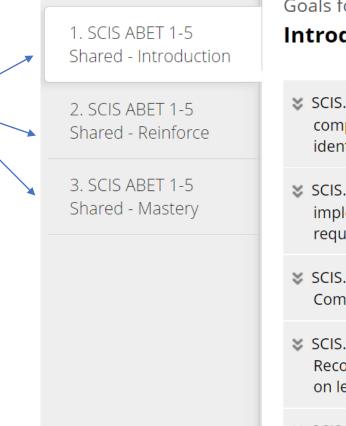
\leftrightarrow \rightarrow C $$ Ims.gvsu.ed	u/ultra/tools			
Activity Stream	Tools			
Courses				
% Organizations	Blackboard Tools			
Calendar			\sim	
Messages	Content Collection	Goals	Goal Performance	
Grades				
Assist NEW	ES I			
Tools	Application Authorization			
 ← Sign Out 	GAC			
Privacy				
Terms	EAC Visual Data			

HOW CAN BLACKBOARD'S ASSESSMENT SOLUTION HELP US?

Current Practices of Assessing the Student Outcomes (SOs)- (Con't)

ightarrow $ ightarrow$ Ims.gvsu.edu/u	ultra/tools						
Activity Stream	Tools						
Courses							
ရှိ Organizations	Blackboard Tools						
Calendar			\sim				
10 Messages	Content Collection	Goals	Goal Performance				
Grades							
Assist NEW	B						
了 Tools	Application Authorization		SCIS ABET 1-5 Sh	ared			
Sign Out			Goals				
ivacy rms				_			
Y	EAC Visual Data		SCIS ABET 6 Prog Goals Levels	ram			

Goals for:SCIS ABET 1-5 Shared Goals 1. SCIS ABET 1-5 Shared - Introduction



Goals for: SCIS ABET 1-5 Shared Goals 1. SCIS ABET 1-5 Shared -Introduction

- SCIS.ABET.INTRO.PLO.01.00 SCIS.ABET.INTRO.PLO.01.00: INTRO ABET 1 ANALYSIS Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- SCIS.ABET.INTRO.PLO.02.00 SCIS.ABET.INTRO.PLO.02.00: INTRO ABET 2 DESIGN Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- SCIS.ABET.INTRO.PLO.03.00 SCIS.ABET.INTRO.PLO.03.00: INTRO ABET 3 COMMUNICATION -Communicate effectively in a variety of professional contexts.
- SCIS.ABET.INTRO.PLO.04.00 SCIS.ABET.INTRO.PLO.04.00: INTRO ABET 4 RESPONSIBILITIES -Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- SCIS.ABET.INTRO.PLO.05.00 SCIS.ABET.INTRO.PLO.05.00: INTRO ABET 5 TEAMWORK Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

Goals for: SCIS ABET 1-5 Shared Goals 1. SCIS ABET 1-5 Shared - Introduction

1. SCIS ABET 1-5 Shared - Introduction	Goals for: SCIS ABET 1-5 Shared Goals 1. SCIS ABET 1-5 Shared - Introduction
2. SCIS ABET 1-5 Shared - Reinforce	SCIS.ABET.INTRO.PLO.01.00 - SCIS.ABET.INTRO.PLO.01.00: INTRO ABET 1 ANALYSIS - Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
3. SCIS ABET 1-5 Shared - Mastery	SCIS.ABET.INTRO.PLO.01.01 - SCIS.ABET.INTRO.PLO.01.01: ANALYSIS PI 1 - Identify the various 🖌 components of the problem
	SCIS.ABET.INTRO.PLO.01.02 - SCIS.ABET.INTRO.PLO.01.02: ANALYSIS PI 2 - Apply principles of computing and other relevant disciplines to formulate the possible solutions.
	SCIS.ABET.INTRO.PLO.01.03 - SCIS.ABET.INTRO.PLO.01.03: ANALYSIS PI 3 - Justify a viable solution to the problem.
	SCIS.ABET.INTRO.PLO.01.04 - SCIS.ABET.INTRO.PLO.01.04: ANALYSIS PI 4 - Justify the or commended solution
	 SCIS.ABET.INTRO.PLO.02.00 - SCIS.ABET.INTRO.PLO.02.00: INTRO ABET 2 DESIGN - Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
	 SCIS.ABET.INTRO.PLO.03.00 - SCIS.ABET.INTRO.PLO.03.00: INTRO ABET 3 COMMUNICATION - Communicate effectively in a variety of professional contexts.
	SCIS.ABET.INTRO.PLO.04.00 - SCIS.ABET.INTRO.PLO.04.00: INTRO ABET 4 RESPONSIBILITIES -

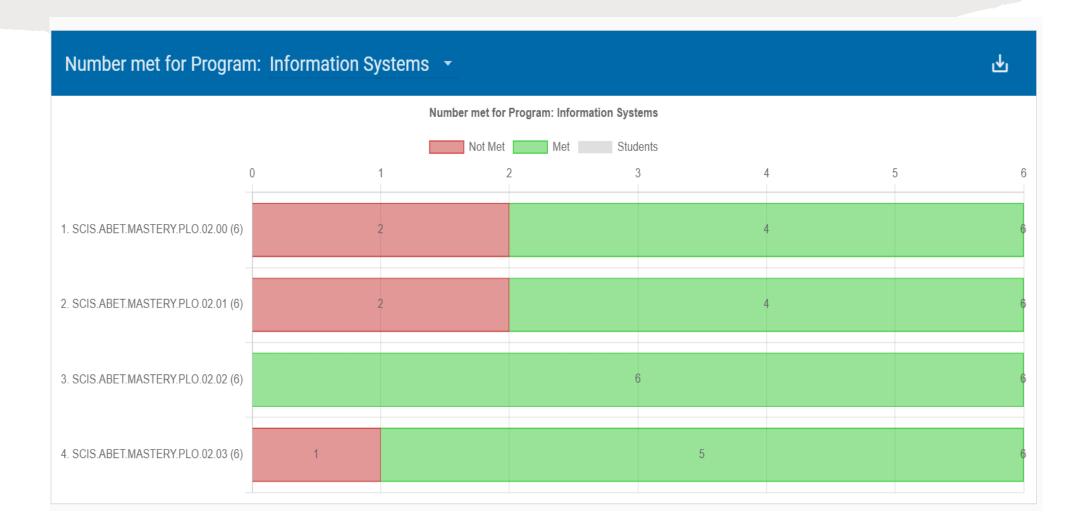
Goals for: SCIS ABET 6 Program Goals Levels 1. SCIS ABET 6 - <u>Introduction</u>

. SCIS	1. SCIS ABET 6 - Introduction	Goals for: SCIS ABET 6 Program Goals Levels 1. SCIS ABET 6 - Introduction
	2. SCIS ABET 6 - Reinforce	SCIS.ABET.CS.INTRO.PLO.06.00 - SCIS.ABET.CS.INTRO.PLO.06.00: INTRO CS DEVELOPMENT ABET 6 - Apply computer science theory and software development fundamentals to produce computing- based solutions.
	3. SCIS ABET 6 - Mastery	SCIS.ABET.CS.INTRO.PLO.06.01 - SCIS.ABET.CS.INTRO.PLO.06.01: CS DEVELOPMENT PI 1 - Determine the most appropriate data structures needed to solve a problem.
		SCIS.ABET.CS.INTRO.PLO.06.02 - SCIS.ABET.CS.INTRO.PLO.06.02: CS DEVELOPMENT PI 2 - Analyze whether a given algorithm provides an efficient and effective solution to solve a problem.
		SCIS.ABET.CS.INTRO.PLO.06.03 - SCIS.ABET.CS.INTRO.PLO.06.03: CS DEVELOPMENT PI 3 - Develop a computing solution using an approriate programming paradigm to solve a problem.
		SCIS.ABET.CS.INTRO.PLO.06.04 - SCIS.ABET.CS.INTRO.PLO.06.04: CS DEVELOPMENT PI 4 - Perform object-oriented analysis, design, and implementation of software systems.
		 SCIS.ABET.CY.INTRO.PLO.06.00 - SCIS.ABET.CY.INTRO.PLO.06.00: INTRO CY IMPLEMENTATION ABET 6 Apply security principles and practices to maintain operations in the presence of risks and threats.
		SCIS.ABET.DS.INTRO.PLO.06.00 - SCIS.ABET.DS.INTRO.PLO.06.00: INTRO DS EVALUATION ABET 6 - Apply theory, techniques, and tools throughout the data analysis science lifecycle and employ the resulting knowledge to satisfy stakeholders' needs.
		SCIS.ABET.IS.INTRO.PLO.06.00 - SCIS.ABET.IS.INTRO.PLO.06.00: INTRO IS MANAGEMENT ABET 6 -

	Mode: Instructor • 1/2/2023 •	5 10/29/2023 ▼	
EAC	- Item Name Course		Power of using EAC
Tests	Test List 🏮 (1 of 1 selected) 🗲		
Rubrics	Test – +	≡	CourseName
Goals	<u>CIS375- Quiz07</u>		CIS 375 01 - TR - Wireless Networks and Security (W23)
Settings	Take CIS375-Exam02 Here	EAC	Downloads
	<u>CIS654 - Exam02</u>	* <	Take CIS375-Exam02 Here (4/5/2023 - 4/5/2023) STANDARD SUMMARY FULL CURRENT
		Courses Included	Courses Included · 전 보
		— Summary Statistics	Course \equiv Instructors \equiv Enrollment \equiv Responses \equiv Percent \equiv
		+ Item Analysis	CIS 375 01 - TR - Wireless Networks an El-Said, Mostafa 23 23 100
		+ Distractors	
		+ Student Questions	
		+ Goals Summary 🗸	Summary Statistics 🖸 🛃
		Goals Manager	Description Value Description Value

EAC	Mode: Instructor Instructor	 10/29/2023 	•		GO			
Tests	Rubric List 🕕 (0 of 0 selected)				⊕ ➡			
Rubrics	Rubric – + =	Learning Activity	≡	CourseName	≡			
Goals	Criterion 3 Rubric Submit Week	02 Assignment Here - Criteror	3 CIS	S 375 - EAC Course Demonst	tration Template			
Settings Submit You		Course Project - Final Project	Submit Week02 Assignmer	3 375 - EAC Course Demonst nt Here - Criteron 3 (2023-01-28 - 2023	1	Target 0.6 STANDARI	Downloa Downloa D SUMMARY	FULL CURREN
		 Courses Included Summary Statistics Row Analysis 		I = Enrollment = Grissom, § 7	Evaluations =	Percent ≡ 57.14	€ # Pass = 4	C ⊥ % Pass ≡ 100
		+ Student Rows + Details Levels Of Achievement	Overall	7	4	57.14	4	100
		Goals Manager	Summary Statistics	·			Ð	5 7

Power of using EAC: NEW GOALS IMPLEMENTATION – REPORT OPENS IN ITS OWN BROWSER TAB



The Power of using EAC

EAC Live Demo