MULTI-YEAR ASSESSMENT PLAN 2021 – 2027

Department: Mathematics and Computer Science Chair: Russell W. Howell

Program Learning Outcomes	2021-	2022-	2023-	2024-	2025-	2026-	Assessment methods and	Benchmarks	Who is in	How the loop will be closed
	2022	2023	2024	2025	2026	2027	tools		charge?	/has been closed?
	_								-	
1. Communication							Typeset writing samples	75% of lower	Faculty	The department will
							will be collected in MA 19,	division work	teaching the	determine whether there
							MA 20, MA 108, MA 180,	will be at the	courses will	are particular areas in
							CS 195, and other relevant	acceptable	collect the	which students are deficien
							CS courses. These samples	level or	data. The	and determine methods to
							will be evaluated	above. 90%	chair will	remediate those
							according to the	of upper	coordinate	weaknesses.
			x				departmental writing	division work	the process	
							rubric.	will be	of evaluation	
								acceptable	and	
							Presentation materials and	and at least	response.	
							videos in MA 20 and MA	50% will be		
							180 and relevant CS	outstanding.		
							courses will be evaluated			
							for according to the			
							departmental rubric.			
2. Creativity				x			To be modified early in the			
							fall semester, 2024		-	
3. Christian Connection							Each spring term in MA	At least 75%	The faculty	TBD after the review.
							180, and CS 195 student	of students	members	
							essays in response to the	will be able	teaching MA	
							departmental prompt will	to articulate	180 and CS	
							be collected. Students will	a clear	195 will	
							typically produce two	connection	assign the	
					x		responses to the prompt in	between	prompt and	
							two different years. The	their	collect the	
							essays will be evaluated	mathematical	responses.	

	1	1	1	1	'	'	according to the	and faith lives	The chair will	
	1	1 '	'	1	'	1 '	departmental rubric.	in their	coordinate	
	1	1 '	'	1	'	1 '	1	second	the process	
	1 '	1 '	1	1 '	1 '	'		response.	of review and	
	1 '	1 '	1	1 '	1	'		'	responses.	
4. Core Knowledge	1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	/	,	,	To be modified early in the	,		
	1	1 '	1	1 '	1	1 '	fall semester, 2026, per		1	/
	1 '	1 '	1	1 '	1 '	x	the request of the 2021		1	/
	1 '	1	1 '	1	1 '	'	external review team		1	/
5.	I'	· '	· '		· · · · · · · · · · · · · · · · · · ·	·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	!
Key Questions	<u> </u>						Means of inquiry and		Who is in	Data-guided
		'		('	//	//	evaluation		charge?	recommendations
1. How can Westmont sustain	ı,	· [· · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· ['	· [· · ·	Departmental meeting	,	Department	
an excellent computer	1	1 '	1	1 '	1	'	discussions to include		chair	/
science program when	1 '	1 '	1	1 '	1 '	'	creative ways of finding		1	,
hiring competent staff is	x	1 '	1	1 '	1 '	'	qualified personnel.		1	,
difficult, yet two additional	1 '	1 '	1	1 '	1 '	'			1	/
FTEs are needed?	1 '	1 '	1	1 '	1	'	1		1	
2. What modifications need to	1 *		'	· ['	1	[]	Discussion of		Department	Course enrollments will be
be made to the computer	1 '	1 '	1	1 '	1 '	'	recommendations made		chair, in	tracked to help determine
science and mathematics	1 '	1 '	1	1 '	1	'	by the assessment team to	·	consultation	student interest. The
curriculum, and how can we	1 '	1 '	1	1 '	1	'	include consideration of an	·	with the	outcomes will serve as a
attract/retain a diverse	1 '	1 '	1	1 '	1	'	applied mathematics	·	chairs of	guide to future planning,
	1 '	1 '	1	1 '	1	'		·		but will not determine what
group of students, provide	x	x	x	x	1 '	x	minor, and the teaching of	·	engineering	
enhanced internship	1 '	1 '	1	1 '	x	'	differential equations		and physics	parts of the program to
opportunities, and build	1	1 '	1	1 '	1	'	within the department. For		1	strengthen.
community?	1 '	1 '	1	1 '	1	'	internships, we will	·	1	
	1 '	1 '	1	1 '	1	'	continue reaching out to		1	
	1 '	1 '	1	1 '	1	'	alumni and coordinating	·	1	
!	I'	['	Ĺ'	L'	Ĺ'	Ĺ'	with Paul Bradford.	·	l'	
3. Is the department giving	ı '	· ['	· [· · ·	1 '		· [· ·	The department will hold	· · · · · · · · · · · · · · · · · · ·	Department	
sufficient attention to the	1 '	1 '	1	1 '	1	'	preliminary discussions in	·	chair	
QAR and RA aspects of the	1 '	x	x	1 '	1	'	the spring of 2023 in which	·	1	
courses it is teaching?	1 '	1 '	1	1 '	1 '	'	the current evaluation		1	
	1 '	1 '	1	1 '	1	'	rubric will be refined, then	·	1	
ı	''	·′	·	· '	·'	· · · · · ·		·	·	

					evaluate the essays and/or videos collected in the spring of 2024 according to the new rubric.		
4. How do we ensure that we are attracting and retaining a diverse student body within our majors and that all our students feel connected to the	x				Departmental Meetings	Entire department	
departmental community?							
departmental community? GE Projects					Means of inquiry and evaluation	Who is in charge?	Data-guided recommendations
		x					-
GE Projects		x			evaluation Results will be discussed in a department meeting when the data and subsequent analyisis (conducted in the 2021- 2022 academic year) by the Reasoning Abstractly Assessment Team is		-

Discussion/Comments/Reflections:		
	Departmental Program Review Retreats	

Date	Agenda	Decisions made	Participants

Notes:

- 1. Adjust the Multi-Year Assessment Plan to your department six-year assessment cycle.
- 2. Align your program-level assessment with the institutional or General Education assessment whenever possible: e.g., if your department has outcome aligned with the Quantitative Literacy ILO it should be assessed in the 2016-2017 academic year, etc.