

MAP-Works: Medium-Term Retention Outcomes at GVSU

MAP-Works survey data has consistently shown value for predicting short-term academic success at GVSU. Following are some statistics that indicate that the survey responses have been similarly effective in predicting longer-term retention.

	Bivariate (Odds Ratio)											
	1-year retention				2-year retention			3-year retention		4-yr ret	4-yr grad	
	2009	2010	2011	2012	2009	2010	2011	2009	2010	2009	2009	
Academic Integration	1.290	1.258	1.381	1.370	1.220	1.235	1.319	1.200	1.223	1.209	1.244	
Academic Self-Efficacy	1.210	1.146	1.296	1.186	1.150	1.156	1.158	1.130	1.178	1.153	1.211	
Advanced Academic Behaviors		1.112	1.135	1.177		1.112	1.106		1.123			
Advanced Academic Behaviors: Active Involvement					1.100			1.070		1.073	1.071	
Adv. Acad. Behaviors: Large and Long Term Projects											1.136	
Advanced Academic Behaviors: Readings and Reviews												
Advanced Academic Behaviors: Short Term Studying											1.117	
Basic Academic Behaviors	1.210	1.398	1.591	1.508	1.200	1.386	1.491	1.210	1.387	1.268	1.481	
Commitment to Higher Education	1.450				1.380			1.360		1.433	1.698	
Commitment to the Institution	1.890	1.489	1.614	1.717	1.690	1.425	1.483	1.650	1.353	1.546	1.406	
Financial Means		1.143	1.117	1.060		1.121	1.098		1.114			
Homesickness: Distressed	1.350	1.220	1.290	1.258	1.260	1.169	1.202	1.250	1.163	1.092	1.073	
Homesickness: Separation	1.200	1.122	1.216	1.100	1.130	1.103	1.150	1.120	1.098	1.194	1.117	
Off-Campus Living: Environment		1.339										
On-Campus Living: Environment	1.390	1.262			1.260	1.205		1.220	1.218	1.178	1.100	
On-Campus Living: Roommate Relationship	1.160	1.112			1.120			1.090	1.098	1.136		
On-Campus Living: Social Aspects	1.230	1.197			1.170	1.124		1.160	1.163			
Peer Connections	1.270	1.196	1.195	1.235	1.200	1.136	1.153	1.160	1.162	1.139		
Satisfaction with Institution	1.550	1.518	1.467	1.422	1.390	1.432	1.351	1.340	1.358	1.283	1.175	
Self-Assessment: Analytical Skills		1.110	1.144	1.147		1.119	1.130		1.159	1.067	1.088	
Self-Assessment: Communication Skills			1.076						1.086	1.104	1.186	
Self-Assessment: Health and Wellness					1.080			1.080		1.102	1.109	
Self-Assessment: Self-Discipline	1.160	1.217	1.182	1.306	1.120	1.214	1.204	1.180	1.256	1.255	1.379	
Self-Assessment: Time Management		1.166	1.238	1.264		1.188	1.202	1.110	1.206	1.149	1.350	
Social Integration	1.400	1.344	1.373	1.356	1.270	1.251	1.257	1.270	1.245	1.215	1.110	

Blank cells indicate that no significant association exists.

Grey cells indicate that the factor was not collected in the named year.

Blue text indicates the three most influential factors for the given outcome.

	Multivariate (standardized regression coefficient)											
	1-year retention				2-year retention			3-year retention		4-yr ret	4-yr grad	
	2009	2010	2011	2012	2009	2010	2011	2009	2010	2009	2009	
Academic Integration									-0.041			
Academic Self-Efficacy		-0.062					-0.034					
Advanced Academic Behaviors		-0.040		-0.053		-0.049						
Advanced Academic Behaviors: Active Involvement					0.044							
Adv. Acad. Behaviors: Large and Long Term Projects												
Advanced Academic Behaviors: Readings and Reviews	-0.071				-0.073			-0.065		-0.064	-0.086	
Advanced Academic Behaviors: Short Term Studying												
Basic Academic Behaviors	0.047	0.093	0.091	0.109	0.039	0.093	0.083	0.061	0.089	0.059	0.082	
Commitment to Higher Education												
Commitment to the Institution	0.274	0.108	0.205	0.204	0.224	0.097	0.172	0.213	0.079	0.176	0.097	
Financial Means		0.050				0.045	0.032		0.033			
Homesickness: Distressed	0.081	0.066	0.062	0.071	0.082	0.053	0.039	0.083	0.062	0.064	0.054	
Homesickness: Separation	0.036		0.054				0.054					
Off-Campus Living: Environment												
On-Campus Living: Environment												
On-Campus Living: Roommate Relationship												
On-Campus Living: Social Aspects												
Peer Connections												
Satisfaction with Institution		0.137				0.154	0.050		0.111			
Self-Assessment: Analytical Skills		0.033	0.032				0.036		0.046			
Self-Assessment: Communication Skills				-0.037							0.040	
Self-Assessment: Health and Wellness												
Self-Assessment: Self-Discipline			0.045							0.046		
Self-Assessment: Time Management											0.125	
Social Integration			0.056	0.075		-0.044						

Blank cells indicate that no significant association exists after controlling for other significant factors.

Grey cells indicate that the factor was not collected in the named year.

Blue text indicates the three most influential factors for the given outcome.

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The MAP-Works alert levels have predicted short-term (fall-to-winter) persistence pretty consistently. They are also effective in stratifying longer-term

	1-year				2-year			3-year	
	2009	2010	2011	2012	2009	2010	2011	2009	2010
Green		91%	89%	85%		84%	83%		80%
Yellow		81%	78%	74%		73%	70%		70%
Red		70%	70%	64%		65%	62%		62%
Red x 2		0%	57%	58%		33%	50%		33%

EBI has suggested that MAP-Works' impact can be measured by counting the number of respondents who indicated an intent to leave the institution but actually stayed. That's surely an inflated and simplistic measure, but might serve as an upper bound for an estimate of the impact. Early GVSU data indicate an average of 113 student-years of continued enrollment for students who indicated very low likelihood that they would continue past their first year.

- 48 retained to 2nd year
- 28 retained to 3rd year
- 29 retained to 4th year
- 8 retained to 5th year (2009 4-year numbers shown below include 10 who graduated in 4 years, plus 8 who remained for year 5.)

To what degree do you intend to come back to this institution for the next: Academic year	1-year				2-year			3-year		4-year
	2009	2010	2011	2012	2009	2010	2011	2009	2010	2009
	Number who persisted									
(1) Not at all	7	22	13	47	4	18	11	5	17	5
(2) -	16	28	17	42	13	23	15	14	22	13
	Number who dropped/stopped out									
(6) -	77	68	95	67	103	104	148	119	119	125
(7) Extremely	212	278	286	502	398	418	452	446	502	506
Sum of (1) & (2)	23	50	30	89	17	41	26	19	39	18
Sum of (6) & (7)	289	346	381	569	501	522	600	565	621	631