

Table 1. Change in Student Self-Rating of Skills Over Time (2011-13 Foundations of Learning Assessment/2014 Drake Student Survey)

	Pretest Mean (FLA)	Posttest Mean (DSS)	Repeated Measures Mean Comparison (Time)		Interaction Effect (Difference in Change over Time by Group)						Challenge in Classes	Out of class influence intellectual growth	
			Sig. (2-tailed)	Effect Size	Class Comparison	College	Race and Ethnicity	Iowa Resident	Citizenship	LEAD			
Read and understand scientific writings written for an informed lay audience	3.34	3.71	.000	0.34	3rd vs. FY	PH+, AS+, JO -						D+, SD+	
Employ evidence effectively in writing	3.82	4.08	.000	0.33									
Evaluate the quality or reliability of information	3.81	4.09	.000	0.32									
Understand the ethical issues related to use and misuse of information	3.96	4.22	.000	0.26		SOE-	Wh+			LEAD+			
Evaluate reasoned arguments	3.91	4.12	.000	0.25									
Apply understanding of ethical issues when developing solutions	3.90	4.12	.000	0.25									
Ability to use educational experiences to analyze civic and global issues.	3.62	3.83	.000	0.23						Non+		SA+	SA+
Construct reasoned arguments	3.95	4.11	.000	0.20						Non+			
Ability to integrate skills and knowledge from different sources and experiences	4.05	4.20	.000	0.19		AS+, JO+					LEAD+		
Communicate effectively with people from other cultures and backgrounds.	3.89	4.00	.005	0.12			Wh+	IA+		Non+	LEAD+		
Knowledge of how to participate effectively in the democratic process.	3.52	3.62	.008	0.11	3rd vs. FY & 2nd	PH-						A+, SA+	
Articulate a vision of my own values, ethics, or core beliefs	4.14	4.22	.039	0.09		AS+					LEAD+		
Execute appropriate mathematical operations for a given question	3.80	3.81	.821	0.01	3rd vs. FY								
Understand the perspectives and experiences of people who are different than you	4.22	4.21	.854	0.01							LEAD+		SA+
Create or interpret art (ex. Sculpture, painting, music, theatre)	3.06	3.04	.687	0.02									
Ability to read carefully	4.20	4.18	.604	0.02									
Analyze differences between industrialized and developing areas of the world	3.71	3.67	.320	0.04		AS+, SOE-				Non+			SA+
Understand the historical, political, and social connections of past events	3.68	3.61	.091	0.07		AS+, BN-, PH-							