

# General Education

## Learning Outcome Assessment

### Humanities, Fine Arts, & Ethics Outcome

(Spring 2024)



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## Executive Summary

The General Education curriculum provides foundational knowledge in academic disciplines, exposing students to diverse learning perspectives and ways of knowing in Mathematics, Science, Social Sciences, and Arts and Humanities (University System of Georgia). Georgia Institute of Technology (Georgia Tech) General Education (Gen Ed) has six learning outcomes: (1) Communication, (2) Quantitative, (3) Computing, (4) Humanities, Fine Arts, and Ethics (5), Natural Sciences, Math, and Technology, and (6) Social Sciences. They are assessed in accordance with our established timeline. Nurtured by the Subcommittee on Gen Ed and Policy, the 3-Year Georgia Tech Gen Ed Assessment Plan (2021-2024) sets the framework for good practice in course delivery and assessment, capitalizing on the good judgment of faculty members regarding students' levels of attainment of Gen Ed learning outcomes. Faculty develop signature assignments in their Gen Ed courses, and the assignments, along with student performance, are collected for review and analysis at the end of each semester. To better understand our students' performance, the Office of Academic Effectiveness (OAE) then partnered with faculty to develop a scale for scoring. The general scale is structured to assess each Gen Ed learning outcome on a continuum: 1-Developing, 2-Meets Expectations, 3-Exceeds Expectations.

This report summarizes the evidence of student learning (n = 1,073) and provides descriptive statistics for the **Humanities, Fine Arts, & Ethics** outcome to support conversations regarding Gen Ed learning and opportunities for improvement.

### Highlights

- **90.9%** (n= 976) of students met or exceeded the Humanities, Fine Arts, & Ethics Outcome expectations, which means students demonstrated developing or better proficiency in describing relationships among languages, philosophies, cultures, literature, ethics, or the arts. Students' performance in the Humanities, Fine Arts, & Ethics outcome met or exceeded Georgia Tech's acceptable target (80%).
- Comparing student demographics for the Humanities, Fine Arts, & Ethics Outcome, the results indicated that the majority of demographic groups met or exceeded the target of 80% with the exception of the unknown group in the Race/Ethnicity category and the Freshman group in the class category.

## Background

An integral part of the delivery of General Education (Gen Ed) at the Georgia Institute of Technology (Georgia Tech) includes the assessment of the learning outcomes. The learning outcomes were approved by the Georgia Tech Undergraduate Curriculum Committee and Faculty Senate, and then by the University System of Georgia's (USG) Council on General Education in April 2011:

- **Communication (Core Area A1)**  
**Outcome:** Student will demonstrate proficiency in the process of articulating and organizing rhetorical arguments in written, oral, visual, and nonverbal modes, using concrete support and conventional language.
- **Quantitative (Core Area A2)**  
**Outcome:** Student will demonstrate the ability to apply basic elements of differential and integral calculus to solve relevant problems.
- **Computing (Institutional Options B)**  
**Outcome (2021 Fall):** Student will be able to develop algorithms and implement them using an appropriate computer language and will understand algorithmic complexity and reasonable versus unreasonable algorithms. Based on the 2021 assessment results, the learning outcome was modified in Fall 2023:  
  
**Provisional Outcome (2023 Fall):** Students will be able to develop solutions to problems involving data and to implement these solutions using an appropriate computer language.
- **Humanities, Fine Arts, and Ethics (Core Area C)**  
**Outcome:** Student will be able to describe relationships among languages, philosophies, cultures, literature, ethics, or the arts.
- **Natural Sciences, Math, and Technology (Core Area D)**  
**Outcome:** Student will be able to demonstrate the ability to obtain, analyze, interpret, and criticize qualitative observations and quantitative measurements to explain natural phenomena and to test hypotheses.
- **Social Sciences (Core Area E)**  
**Outcome:** Student will demonstrate the ability to describe the social, political, and economic forces that influence social behavior.

The purpose of this report is to provide assessment results to support conversations regarding General Education learning and opportunities for improvement.

## Methods

Georgia Tech conducted an intensive review of the Gen Ed learning outcomes and how students demonstrate their learning in these areas by engaging faculty in Gen Ed assessment conversations in the following steps: (1) Study course enrollment and identify representative courses. We examined enrollment patterns for students taking courses in Gen Ed for the last five years. Patterns were determined, too, by class size (large class-100

or more students; medium class- 50-99 students; small class- 20-49 students). This exercise led to the value that all class sizes would be included in the 3-year Gen Ed Assessment Plan, as well as coverage of each discipline that contributes to Gen Ed. A total of 40 courses represented from different colleges were selected (See Appendix A and B). (2) Identify or develop signature assignments that align with the outcome. Faculty identified measures that are tangible, visible, self-explanatory, and provide compelling evidence of exactly what students have learned. (3) Develop performance scale. Faculty met and developed a scale for scoring. The general scale is structured to assess each Gen Ed learning outcome: 1- Developing, 2- Meets Expectations, 3- Exceeds Expectations. The following image indicates our goal for this step.



Figure 1 Scoring Method from Course Level Assessment to Outcome Level Assessment

This three-step process has become the basic collaboration framework across courses and units for meaningful Gen Ed assessment.

### Sample

The following table indicates the representative nature of the sample by comparing the student demographic information of the sample and the undergraduate student population of the Institute.

Table 1 Sample Size by Student Demographics

Student Demographic	Sample N (%)	Institutional Population N (%)
<b>Gender</b>	(Total 1,073)	(Total 19,510)
Male	701 (65.3%)	11,860 (60.8%)
Female	372 (34.7%)	7,650 (39.2%)
<b>Race/Ethnicity</b>		
White	455 (48.1%)	6,793 (34.8%)
Black or African or American	95 (10.0%)	1,523 (7.8%)
Asian	273 (28.9%)	5,936 (30.4%)
Hispanic or Latino	67 (7.1%)	1,536 (7.9%)
Two or More Races	47 (5.0%)	887(4.5%)
Unknown	8 (0.8%)	209 (1.1%)
<b>First Generation College Student</b>		
Continuing Generation	799 (84.5%)	15,592 (79.9%)
First Generation	147 (15.5%)	1,310 (6.7%)

Citizenship		
Domestic Student	946 (88.2%)	16,902 (86.6%)
International Student	127 (11.8%)	2,608 (13.4%)
Transfer Student Status		
Non-Transfer Student	844 (78.7%)	18,754 (96.1%)
Transfer Student	229 (21.3%)	756 (3.9%)
Class		
Freshman	112 (10.4%)	2,330 (11.9%)
Sophomore	252 (23.5%)	4,257 (21.8%)
Junior	318 (29.6%)	4,529 (23.2%)
Senior	391 (36.4%)	7,151 (36.7%)
GA Residence		
GA Residence	664 (61.9%)	12,062 (61.8%)
Out of State Residence	409 (38.1%)	7,102 (38.2%)

### The Humanities, Fine Arts, & Ethics Outcome Statement and Representative Courses

ARCH 2111, ID 2202, ID 2241, LMC 2100, LMC 2350, LMC 3219, LMC 3226, PHIL 3109, PHIL 4176, ML 2500, and FREN 1002 are listed under General Education Core Area C Humanities, Fine Arts, & Ethics, which is associated with the following outcome:

**Student will be able to describe relationships among languages, philosophies, cultures, literature, ethics, or the arts.**

### Measures and Targets for the Humanities, Fine Arts, & Ethics Outcome

In ARCH 2111, students were asked to respond two questions:

1. Question 1 will assess the evolution of architectural drawing conventions as an essential graphic language that transcended isolated areas and eras. Students will be asked to explain how the introduction of paper shaped architectural production and enhances our understanding of architectural history. Students' answers should be approximately one paragraph with a clear thesis statement and at least three specific examples from different geographic regions (artifacts, projects/sites, and/or architects and how paper transformed their work and/or legacy).
2. Question 2 will assess the translation of structural and performative concepts in architecture. Students will be asked to examine two specific structural features or assemblies then explain how they are directly representative of cross-cultural contact, assimilation, and/or adaptation.

In ID 2202 and ID 2241, students were asked to demonstrate an understanding of the influences of literature on the design arts by correctly identifying multiple answers to an exam question:

1. Exam question for ID 2202: From a set of answers, identify the correct cross-influences from the Transcendentalist literature of the late/early 20th century (Emerson, Thoreau) on the design field known as The Arts & Crafts Movement (Morris, Stickley) in terms of selection and use of (ecological) materials, function of the design (within Survivalist agendas) and design narratives ("spiritual truth").

2. Exam question for ID 2241: From a set of answers, identify the cross-influences from the philosophy of Neoplatonism (Ficino and the Medici School) on the art practiced by Michelangelo in terms of his choices in subject matter for his art projects (“the Great Chain of Being” and “Perfect Forms”) and his compositional devices (hierarchies in spatial positioning, perspective systems, use of self-portraits).

In LMC 2100, LMC 2350, LMC 3219, and LMC 3226, students were asked to produce a piece of writing that demonstrates a description of the relationships among languages, philosophies, cultures, literature, ethics, or the arts. Through this writing, students will identify the ways in which these disciplines work together. Faculty will score this writing to determine the quality of student learning.

In PHIL 3109, students will be asked to write a short assignment summarizing and providing a critical reaction to a concrete case study from the field of engineering ethics. Through this writing, they will identify an ethical dilemma and describe the relationships that are in potential conflict. Faculty will score this writing to determine the quality of student learning.

In PHIL 4176, students will be asked to write a sharing a learning resource. Through this writing, they will identify an ethical dilemma and describe the relationships that are in potential conflict. Faculty will score this writing to determine the quality of student learning.

In ML 2500, students will describe two aspects of one of the cultures discussed in class: a) one that demonstrates a common or important literary theme/idea from that culture that is also found in literature from the students’ native culture, and thus shouldn’t cause problems when discussing with a native speaker of that culture; and b) one that demonstrates a common or important literary theme/idea that is quite different or absent from those themes found in students’ native culture, and which might cause problems when discussing literature with a native speaker of that culture within their culture.

In FREN 1002, students will describe two aspects of French culture discussed in class: a) one that demonstrates a similarity of French culture with the students’ native culture, and thus shouldn’t cause problems when interacting with a native French speaker; and b) one that demonstrates an important cultural difference or contrast that students need to keep in mind when interacting with a native French speaker within their culture.

### Scoring and Data Analysis

For the Humanities, Fine Arts, & Ethics outcome, students were asked to respond to exams, questions, or write a report. This Humanities, Fine Arts, & Ethics Outcome report presents the student performance data from 11 classes from Fall 2023 and Spring 2024. The following table indicates the sample size and the scoring methods.

*Table 2 Humanities, Fine Arts, & Ethics Scoring*

Course Scoring	Signature Assignment	Scoring Method	N
ARCH 2111	2 questions	0-6	61
ID 2202	1 question	Letter Grade	397
ID 2241	1 question	1-100	246

LMC 2100	Writing	Letter Grade	31
LMC 2350	Writing	Letter Grade	19
LMC 3219	Writing	Letter Grade	34
LMC 3226	Writing	1-100	29
PHIL 3109	Writing	1-10	161
PHIL 4176	Writing	1-100	24
ML 2500	2 questions	0-3	29
FREN 1002	2 questions	0-3	17
Total			1,073

The following table presents student performance by Questions. Faculty determined a common evaluation scale for the Humanities, Fine Arts, & Ethics outcome achievement. The following table presents the score interpretation proposed for understanding students' performance at outcome level assessment:

*Table 3 Score Interpretation*

Score Interpretation			
Course	Developing	Meets Expectations	Exceeds Expectations
ARCH 2111	<3.5	3.5-5	>5
ID 2202	<B	B	A
ID 2241	<80	81-94	>95
LMC 2100	C or lower than C	A-, B	A or above
LMC 2350	C or lower than C	A-, B	A or above
LMC 3219	C or lower than C	A-, B	A or above
LMC 3226	<85	85-95	>95
PHIL 3109	< 8	8-9	> 9
PHIL 4176	<90	90-95	96-100
ML 2500	<2.5	2.5	N/A
FREN 1002	<2.5	2.5	N/A

## Findings

Based on faculty agreement on the score interpretation, the frequency and percentage of achievement were calculated. Overall, 90.9% (n = 976) of students met or exceeded the Humanities, Fine Arts, & Ethics Outcome expectations, which means students demonstrated their ability to describe relationships among languages, philosophies, cultures, literature, ethics, or the arts.

*Table 4 Humanities, Fine Arts, & Ethics Outcome Overall Performance*

Score Interpretation	% (n)	Target Achieved?
Developing	9.0% (n = 97)	
Meets Expectations	45.0% (n = 483)	Yes (90.9%)
Exceeds Expectations	45.9% (n = 493)	



The following sections provide more details of students' performance data by different demographic populations. The results indicated that the majority of demographic groups met or exceeded the target of 80% with the exception of the unknown group in Race/Ethnicity category, and the Freshman group in the class category.

*Table 5 Humanities, Fine Arts, & Ethics Outcome Overall Performance by Demographic*

(From All Represented Courses)	Developing n (%within subgroup)	Meets Expectations n (%within subgroup)	Exceeds Expectations n (% within subgroup)	Overall Score Mean (SD)	Target (80%) Achieved?
<b>Gender</b>					
Male (n=701)	68 (9.7%)	314 (44.8%)	319 (45.5%)	2.36 (0.65)	Yes (90.3%)
Female (n=372)	29 (7.8%)	169 (45.4%)	174 (46.8%)	2.39 (0.63)	Yes (92.2%)
<b>Race/Ethnicity</b>					
White (n=455)	37 (8.1%)	204 (44.8%)	214 (47.0%)	2.39 (0.63)	Yes (91.8%)
Black or African American (n=95)	17 (17.9%)	48 (50.5%)	30 (31.6%)	2.14 (0.69)	Yes (82.1%)
Asian (n=273)	21 (7.7%)	113 (41.4%)	139 (50.9%)	2.43 (0.63)	Yes (92.0%)
Hispanic or Latino (n=67)	6 (9.0%)	32 (47.8%)	29 (43.3%)	2.34 (0.64)	Yes (91.1%)
Two or More Races (n=48)	2 (4.3%)	25 (53.2%)	20 (42.6%)	2.38 (0.57)	Yes (95.8%)
Unknown (n=8)	2 (25.0%)	3 (37.5%)	3 (37.5%)	2.13 (0.84)	No (75.0%)
<b>First-Generation College Student</b>					
Continuing Generation (n=799)	64 (8.0%)	353 (44.2%)	382 (47.8%)	2.40 (0.63)	Yes (92.0%)
First Generation (n=147)	21 (14.3%)	72 (49.0%)	54 (36.7%)	2.22 (0.68)	Yes (85.7%)
<b>Citizenship</b>					
Domestic Student (n= 946)	85 (9.0%)	425 (44.9%)	436 (46.1%)	2.37 (0.64)	Yes (91.0%)
International student (n=127)	12 (9.4%)	58 (45.7%)	57 (44.9%)	2.35 (0.65)	Yes (90.6%)
<b>Transfer Student Status</b>					
Transfer Student (n=229)	23 (10.0%)	117 (51.1%)	89 (38.9%)	2.29 (0.64)	Yes (90.0%)
Non-Transfer Student (n=844)	74 (8.8%)	366 (43.4%)	404 (47.9%)	2.39 (0.64)	Yes (91.3%)
<b>Class</b>					
Freshman (n=112)	24 (21.4%)	46 (41.1%)	42(37.5%)	2.16 (0.75)	No (78.6%)
Sophomore (n=252)	26 (10.3%)	126 (50.0%)	100 (39.7%)	2.29 (0.65)	Yes (89.7%)
Junior (n=318)	24 (7.5%)	146 (45.9%)	148 (46.5%)	2.39 (0.63)	Yes (92.4%)
Senior (n=391)	23 (5.9%)	165 (42.2%)	203 (51.9%)	2.46 (0.61)	Yes (94.1%)
<b>GA Residence</b>					
GA Residence (n=664)	65 (9.8%)	307 (46.2%)	292 (44.0%)	2.34 (0.65)	Yes (90.2%)
Out of State Residence (n=409)	32 (7.8%)	176 (43.0%)	201 (49.1%)	2.41 (0.63)	Yes (92.1%)
<b>Course Level</b>					
Lower Division (n=825)	90 (10.9%)	329 (39.8%)	406 (49.2%)	2.38 (0.67)	Yes (89.0%)
Upper Division (n=248)	7 (2.8%)	154 (62.1%)	87 (35.1%)	2.32 (0.53)	Yes (97.2%)

## Appendix A: Represented Courses List

Outcomes	Represented Courses	Total
Communication	ENGL 1101, ENGL 1102	2
Quantitative	MATH 1552, MATH 1712	2
Computing	CS 1301, CS 1315, CS 1371	3
Humanities, Fine Arts, and Ethics	Large Class: FREN 1002, SPAN 2001, ID 2202, ID 2241, PHIL 3109, ARCH 2111 Middle Class: LMC 3226, ML 2500 Small Class: LMC 2100, PHIL 4176, LMC 2350, LMC 3219	12
Natural Sciences, Math, and Technology	CHEM 1310, BIOS 1207DL, EAS 1600, PHYS 2212, MATH 1554, MATH 1711	6
Social Sciences	Large Class: ECON 2100, HIST 2111, HIST 2112, INTA 1200, 2030, POL 1101, PSYC 1101, PSYC 2210, PSYC 2230, SOC 1101 Small Class: ARCH 3135, CP 4020, POL 2101, PUBP 3000, PUBP 3315	15

## Appendix B: Represented Courses Associated College

Represented course associated college	Number of courses from the represented course list	Associated outcome
Ivan Allen College of Liberal Arts	21	Communication, Humanities, Fine Arts, and Ethics, Social Sciences
College of Sciences	11	Quantitative, Natural Sciences, Math, and Technology, Social Sciences
College of Design	5	Humanities, Fine Arts, and Ethics, Social Sciences
College of Computing	3	Computing