

Georgia Student Finance Commission Report on

College STEM Course Weighting FY 2024 Examination of Students and Courses

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December 2024

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Executive Summary

Grade weighting for designated postsecondary science, technology, engineering, and mathematics (STEM) courses for the purposes of HOPE and Zell Miller Scholarship eligibility was introduced during the 2016 legislative session. The purpose of this report is to provide information on the students and courses impacted by this legislation.

The report presents summary counts of students and courses receiving extra weighting by STEM category, postsecondary sector, and institution. The report also examines the correlation between weighting and two outcomes, STEM course enrollment and GPA calculation.

- All approved majors are translated into four STEM categories using the following classifications: Natural Science, Mathematics, Computer Science, and Engineering.
- In FY 2024, 143,000 students enrolled in over 397,000 approved STEM courses. Please note this count includes all approved STEM courses and is not limited to those receiving weights.
- In FY 2024, there were over 85,0000 STEM-Weight students, i.e., students who received additional weights on their transcript for enrollment in an approved STEM course, a 4.5% increase from the FY 2023 totals (over 82,000).
- With over 175,000 weighted courses taken in FY 2024, students enrolled in an average of two weighted STEM courses. This was the case in all years studied.
- 65% of FY 2024 students took a natural science course and 46% took a mathematics course from the approved course list.
- Computer science and engineering courses were taken by a lower percentage of students with 14% and 5% respectively.
- Course completion is defined as earning postsecondary credit, meaning a student earned a passing grade of A, B, C, D, or S.
- In FY 2024, approximately 84% of all approved STEM course enrollments resulted in earned credit. This is a one-percentage point increase from FY 2023 (83%).
- A's account for the largest percentage of STEM grades in all years studied.
- Grades of D only account for 5-6% across all years.

<u>Conclusion:</u> In all years studied, weighting impacted approximately 20% to 22% of students analyzed, allowing these students to maintain a GPA at or above scholarship benchmarks. If each of these students met all other scholarship requirements, STEM weighting would translate to an additional \$13 Million in HOPE scholarships awarded, and an additional \$1.7 Million in Zell Miller scholarships awarded in FY 2024.

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Introduction

House Bill 801 (HB 801), passed during the 2016 legislative session, introduced grade weighting for designated postsecondary science, technology, engineering, and mathematics (STEM) courses for the purposes of HOPE and Zell Miller Scholarship eligibility. After the bill was signed into law, a task force was appointed to determine courses eligible for weighting. Representatives from the Georgia Student Finance Commission (GSFC), the University System of Georgia (USG), the Technical College System of Georgia (TCSG), and the Georgia Independent College Association (GICA) worked in collaboration with the Georgia Department of Economic Development and several legislators to identify high-demand career fields and associated postsecondary majors and courses. The initial course list was published on GSFC's website and colleges implemented the additional weighting on such course grades in the Fall term of fiscal year (FY) 2018.

The high-demand career fields, associated postsecondary majors, and course types identified by the task force remain unchanged. The list of courses specifically approved for extra weight is reviewed annually and updated as needed. During this annual process all HOPE eligible institutions are provided the opportunity to propose changes to the list of courses. Permissible changes include course additions aligned with approved majors, course title or number corrections, and removal of courses that are no longer offered. All such requests are then reviewed by the STEM Weighted Course Approval Council, which consists of representatives from USG, TCSG, and GICA. The council reviews all requests to ensure course alignment with high demand fields. The review process is currently underway for academic year 2026.

HB 801 also included language mandating a biennial report to the chairpersons of the House Committee on Higher Education and the Senate Higher Education Committee. The report, to be produced by GSFC, must outline the identified high demand fields and eligible courses. The purpose of the current report is threefold. First, it discusses the majors selected and how they relate to STEM categories. Second, summary counts of students and courses receiving extra weighting are provided by STEM category, postsecondary sector, and institution. Third, this report examines the correlation between weighting and two outcomes, STEM course enrollment and GPA calculation.

Designated Majors & Courses

- Beginning in the Fall term of FY 2018, eligible courses receive an additional weight of 0.5 points during the HOPE GPA calculation if the grade received is B, C, or D.
- To be eligible courses must align with majors leading to "high-demand" STEM career fields that require a bachelor's degree.

- TCSG enrollees may still receive the additional weight even if they are not currently enrolled in a bachelor's program. TCSG institutions offer courses that are transferrable to bachelor's programs. All TCSG approved STEM courses must be transferable to USG or a HOPE-eligible private institution.
- The identified high-demand STEM career fields are as follows: Engineers (All), Computer Systems Analysts, Software Developers / Engineers: Applications, Software Developers / Engineers: Systems Software, Web Developers, Registered Nurses, Physician Assistants, Physical Therapists, Physicians & Surgeons, Pharmacists, Secondary Mathematics Teachers, and Secondary Science Teachers.
- No changes have been made to the identified STEM career fields or the list of eligible majors since the list's inception.
- As of the most recent update (academic year 2024-2025), the course list includes over 132 subject areas across 80 HOPE-Eligible institutions¹. During the 2022-2023 academic year, the subject of this report, the course list covered over 125 subject areas.
- Approved majors are translated to four STEM categories using classifications from National Center for Education Statistics (NCES) reporting². (Figure 1)
- "Natural Science" is defined as biological / life / agricultural sciences and physical sciences. As such, most current active eligible courses (60%) fall into this science category.
- Mathematics courses account for 17% of all eligible courses, Computer / Information Sciences account for 15% of all courses, and Engineering / Engineering Tech courses are 8% of eligible courses.
- The percentage of courses in each STEM category has remained relatively constant from FY 2019 through FY 2024.

¹ STEM Weighted Courses Directory: https://apps.gsfc.org/securenextgen/dsp stem course listings.cfm

² Web Tables – Science, Technology, Engineering, and Mathematics (STEM) Graduates: Where Are They 4 Years After Receiving a Bachelor's Degree? (NCES 2018-423). https://nces.ed.gov/pubs2018/2018423.pdf

Figure 1. Approved Majors and STEM Areas

Approved Majors	STEM Category
Engineers (All)	Engineering / Engineering Tech
Computer Systems Analysts	Computer / Information Sciences
Software Developers / Engineers: Applications	Computer / Information Sciences
Software Developers / Engineers: Systems Software	Computer / Information Sciences
Web Developers	Computer / Information Sciences
Registered Nurses	Natural Science
Physician Assistants	Natural Science
Physical Therapists	Natural Science
Physicians & Surgeons	Natural Science
Pharmacists	Natural Science
Secondary Mathematics Teachers	Mathematics
Secondary Science Teachers	Natural Science

Summary Counts

Student Count by STEM Category

- In FY 2024, there were over 85,000 STEM-Weight students, i.e., students who received additional weights on their transcript for enrollment in one or more approved STEM courses. This represents a 4.4% increase from FY 2023 when the number of STEM-Weight students totaled over 82,000.
- Over 175,000 weighted courses were taken in FY 2024, an increase of 4.5% over the 167,000 weighted courses taken in FY 2023, and an increase of 7.5% over the 162,000 courses taken in FY 2022. With over 176,000 weighted courses taken in FY 2021 and over 180,000 taken in FY 2020 and FY 2019, students took an average of two weighted STEM courses across all years studied.
- Nearly two-thirds (65%) of FY 2024 students took a natural science course and 46% took a mathematics course from the approved course list. Computer science (14%) and engineering (5%) courses were taken by a lower percentage of students, but these two categories only account for 23% of eligible courses in FY 2024. As can be seen in Figure 2, the most current percentages are similar to those found in all previous years.

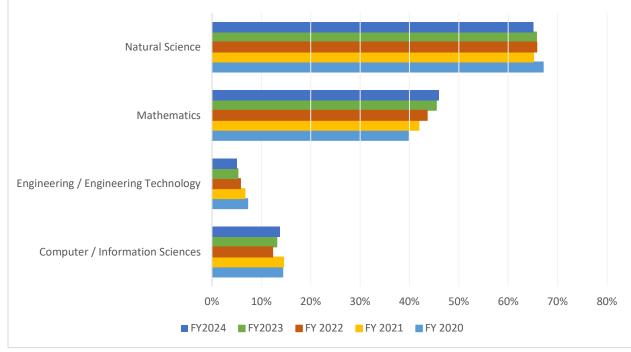


Figure 2: Percentage of Students by STEM Category

Student Count by STEM Category & Sector

- In FY 2024, approximately 66% of STEM-Weight students at USG institutions took a natural science course and 51% took a mathematics course. The USG percentages are similar to those of the entire population, specifically the trend of increasing participation in mathematics courses from FY 2020 to FY 2024. (Figure 3)
- At private institutions, approximately 73% of students took a natural science course and 42% took a mathematics course in FY 2024. Both figures closely match the historical private percentages from FY 2020 through FY 2024. (Figure 3)
- Eighty-three percent of STEM-Weight students within TCSG took a natural science course in FY 2024. The percentage of TCSG students enrolled in a mathematics course decreased from 16.52% in FY 2022 to 15.24% FY 2023, but saw an increase in FY 2024 with 17.95% of students enrolling in a mathematics course. The percentage of students enrolled in computer science courses (17%) has remained relatively constant in all years reported. (Figure 3)

Figure 3. FY 2024 Student Count and Sector Percentage by STEM Area

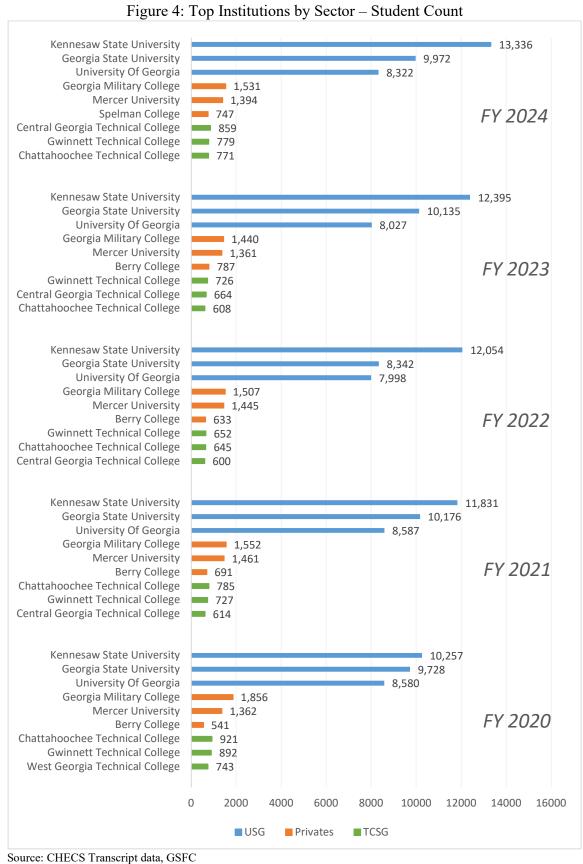
Sector	STEM Area	Student Count	Sector Percentage
	Computer Science	10,045	14.56%
	Engineering	3,902	5.66%
USG	Mathematics	35,267	51.13%
	Natural Science	45,552	66.04%
	All STEM Areas	68,979	
	Computer Science	1,032	16.82%
	Engineering	125	2.04%
TCSG	Mathematics	1,101	17.95%
	Natural Science	5,079	82.79%
	All STEM Areas	6,135	
	Computer Science	610	8.04%
	Engineering	283	3.73%
Private	Mathematics	3,187	42.01%
	Natural Science	5,562	73.31%
	All STEM Areas	7,587	

Student Count by STEM Category & Institution

- From FY 2020 through FY 2024, Kennesaw State University (KSU) had the largest number of STEM-Weight students among all USG Institutions. KSU also led in the number of students enrolled in natural science and mathematics courses from FY 2021 through FY 2024. Georgia Institute of Technology led in the computer science and engineering categories for all years analyzed. (Figures 4 & 5)³
- Central Georgia Technical College led TCSG institutions in the overall number of STEM-Weight students in FY 2024, a designation previously held by Gwinnett Technical College in FY 2022 and FY 2023. Central Georgia Technical College also led the natural science category from FY 2021 through FY 2024. Gwinnett Technical College led in computer science for all years studied, and in engineering for both FY 2023 and FY 2024. Chattahoochee Technical College led in mathematics for FY 2024. (Figures 4 & 5)
- From FY 2020 through FY 2024, Georgia Military College led all private institutions in the number of STEM-Weight students as well as in the computer science category. In FY 2024 it also ranked first in the natural science category. In all other years studied, Mercer University led in natural science. Mercer University also ranked first in engineering for all years studied. (Figure 4 & 5)

³ Results by sector for FY 2019 – FY 2023 can be found in Appendix A.

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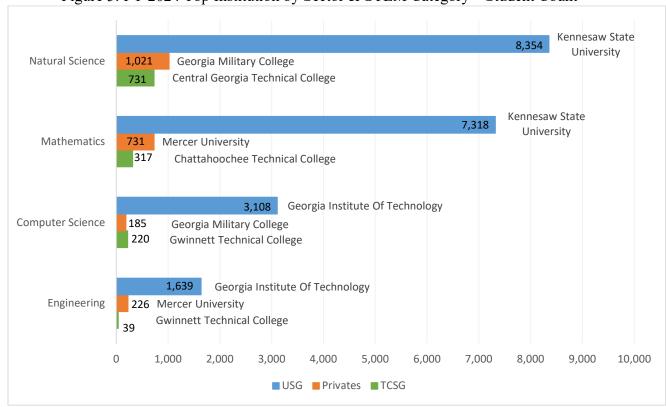


Figure 5: FY 2024 Top Institution by Sector & STEM Category – Student Count

Source: CHECS Transcript data, GSFC.

Course Enrollment & Completion

Enrollment & Grade Distribution: All STEM Courses

- STEM course enrollment and completion trends are analyzed using CHECS transcript data from FY 2019 through FY 2024. Course counts and grades earned are used to determine enrollment and completion. A student is defined as enrolled if he/she was taking one or more approved STEM courses to earn postsecondary credit. This excludes grading categories in which a course is taken for no credit (e.g., auditing).
- In FY 2024, nearly 143,000 students enrolled in over 397,000 approved STEM courses. Please note this count includes all approved STEM courses and is not limited to those receiving weights.
- Course completion is defined as earning postsecondary credit, meaning a student earned a passing grade of A, B, C, D, or S. In FY 2024, approximately 84% of all STEM courses attempted resulted in earned credit. This figure is one percentage point higher than FY 2023 (83%) and two percentage points higher than FY 2022 (81%). Withdrawals accounted for 8% of all STEM courses in FY 2024, and range between 9% and 11% for all previous years.

- Incompletes accounted for less than 0.2% of all STEM courses in every year studied. Failing grades accounted for 7% of all STEM courses in FY 2024, and range between 5% and 9% for all previous years.
- A more detailed examination of the grade distribution shows that A's account for the largest percentage of all grades across all years. (Figures 6 -9)

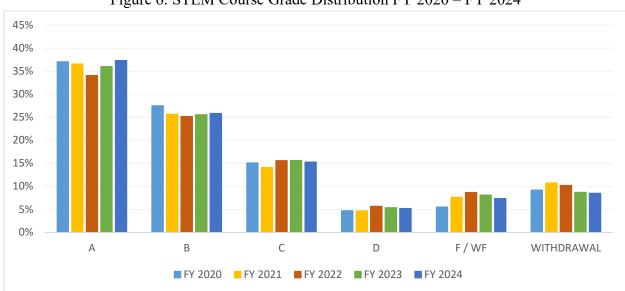


Figure 6: STEM Course Grade Distribution FY 2020 – FY 2024

• Trends seen across each sector reflect those from the overall population. (Figures 7-9)

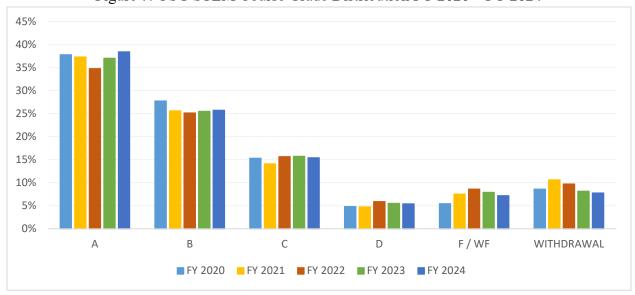


Figure 7: USG STEM Course Grade Distribution FY 2020 – FY 2024

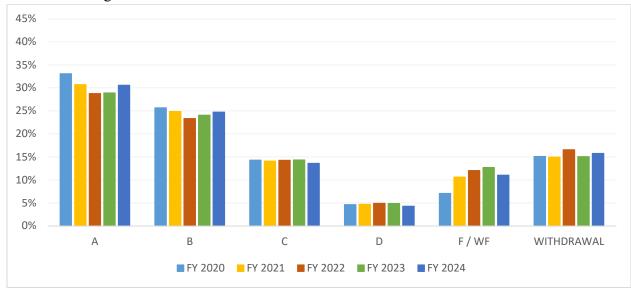


Figure 8: TCSG STEM Course Grade Distribution FY 2020 – FY 2024

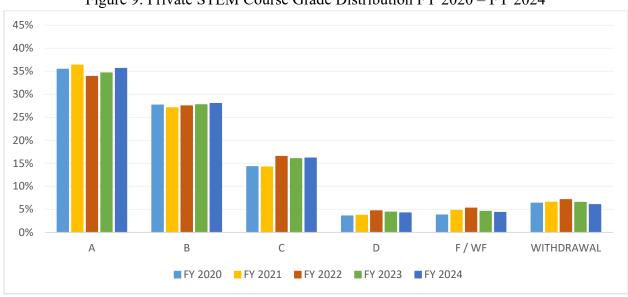


Figure 9: Private STEM Course Grade Distribution FY 2020 – FY 2024

Enrollment & Grade Distribution by STEM Category

- In FY 2023 80% of mathematics courses, 83% of natural science courses, 83% of computer science courses, and 89% of engineering courses had a passing grade. These results are similar to those found in all previous years⁴. (Figures 10 & 11)
- Withdrawals accounted for 6-9% of courses for all subject areas in FY 2023, with engineering having the lowest percent of courses ending in withdrawal. Mathematics (10%) and computer science (8%) had the largest percentage of failing grades, followed by natural science at 7%, and engineering at only 4%. (Figures 10 & 11)

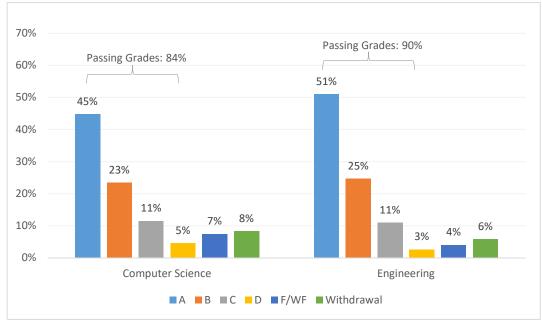


Figure 10: FY 2024 STEM Course Grade Distribution – Computer Science & Engineering

Source: CHECS Transcript data, GSFC.

 $^{^4}$ Results for FY 2023, FY 2022, FY 2021, FY 2020 and FY 2019 can be found in Appendix B.

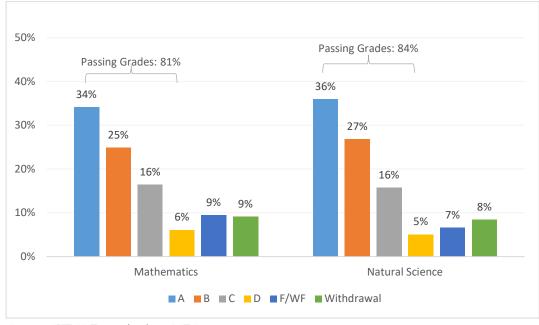


Figure 11: FY 2024 STEM Course Grade Distribution – Mathematics & Natural Science

Note: Category Totals may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, and Not Graded) that account for 1% or less of courses.

Enrollment & Grade Distribution by STEM Category & Sector

- Approximately 81% of FY 2024 course enrollment records examined were from USG institutions. As such, this institution type has a large influence on the overall trends. Within USG, the course completion rate is 85%, failing grades account for 7% of all grades, and withdrawals account for 8% of courses⁵.
- Private institutions account for a much smaller percentage (8%) of all course enrollments, and display grade distribution patterns that differ from USG. For example, 89% of STEM courses resulted in earned credits and only 4% of courses ended with a failing grade. Withdrawals accounted for 6% of courses.
- TCSG (which accounted for roughly 11% of all STEM courses) displays patterns that differ from both USG and private institutions. The STEM course completion rate in FY 2024 was 73%, and approximately 11% of courses had a failing grade. The TCSG withdrawal percentages were higher on average and ranged from 7% for engineering courses to 17% for natural science courses. When stratifying by STEM subject area, the highest rate of course completion occurs in engineering (84%).

⁵ Figures showing Course enrollment and Grade Distribution by STEM Category and Institution Type for FY 2019 – FY 2024 can be found in Appendix C.

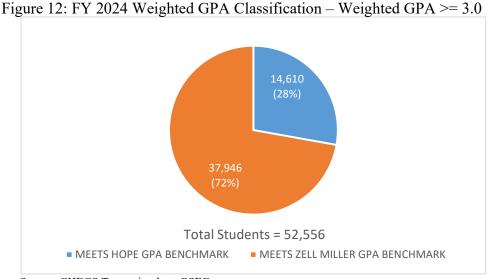
GPA Recalculation

To determine the impact of the course weighting on a student's GPA, CHECS transcript data were used to recalculate the cumulative GPA of students who had taken courses eligible for STEM weighting. Each student's GPA was recalculated without any STEM weights. Initial and recalculated GPAs are then compared to the HOPE Scholarship GPA benchmark of 3.0 and the Zell Miller Scholarship GPA benchmark of 3.3. Note, the following analysis does not relate directly to HOPE or Zell Miller Scholarship eligibility, as it does not account for any other eligibility requirement. The scholarship GPA benchmarks are only used for comparison when analyzing weighting practices.

Initial Classification: Weighted GPA

For this analysis, students are classified based on their initial weighted GPA. Of the over 85,000 students who had taken a course eligible for weighting and for whom a GPA had been calculated in CHECS, 52,556 (61%) had a weighted GPA of 3.0 or higher. This is the base population, as these are the students whose GPAs may fall below the scholarship benchmarks if weights are removed. Initial classification is outlined as follows:

- 1. Meets Zell Miller Scholarship GPA benchmark: Weighted GPA >= 3.3
- 2. Meets HOPE Scholarship GPA benchmark: 3.0 <= Weighted GPA < 3.3
- Of the 52,556 students with a weighted GPA of 3.0 or higher, 28% met the HOPE Scholarship GPA benchmark and 72% met the Zell Miller GPA benchmark. This result exactly matches FY 2023 and is similar to FY 2022 (29% HOPE / 71% Zell Miller), FY 2021 (28% HOPE / 72% Zell Miller), and FY 2020 (30% HOPE / 70% Zell Miller). (Figure 12)



GPA Recalculation: Unweighted GPA

Next, all weights added to STEM coursework are removed and each student's recalculated (unweighted) GPA is examined relative to the scholarship GPA benchmarks.

- After STEM weights are removed 41,042 (78%) of the 52,556 students analyzed saw no change in their initial classification. This means that even though removing the STEM weights did lower their GPA, it did not change their standing relative to the scholarship GPA benchmarks.
- Removing STEM weights would leave 5,004 (34%) of the 14,023 students who initially met the HOPE GPA standard with a GPA below 3.0. Stated differently, STEM weighting brought the GPA of these students up to the HOPE Scholarship 3.0 GPA benchmark.
- For those 37,946 students with a weighted GPA of 3.3 or higher, weight removal renders 6,501 (17 %) as no longer meeting the Zell Miller GPA benchmark, but still meeting the HOPE GPA standard, i.e., 3.0 <= GPA < 3.3. In other words, STEM weighting brought the GPA of these students up to the Zell Miller Scholarship 3.3 GPA benchmark.
- Only 9 (0.02%) of those initially meeting the Zell Miller benchmark would fall below the HOPE GPA standard if weights were removed.
- Overall, weight removal causes a decrease in the percentage students meeting the Zell Miller GPA benchmark, and a net increase in the percentage of students meeting the HOPE GPA standard. This net increase is driven by students who drop below the 3.3 Zell Miller benchmark but maintain a GPA of 3.0 or above. (Figure 13)
- FY 2024 results maintain the patterns previously established in prior year analyses. The estimates listed in Figure 15 are within one percentage point of their FY 2023 FY 2022, and FY 2021 counterparts, and two percentage points of FY 2020 estimates. In FY 2019 a smaller percentage (68%) of students analyzed initially met the Zell Miller GPA benchmark, but the shifts between classification categories were like those seen in FY 2024.
- Across all years, removing STEM weights increases the percentage of students meeting the HOPE GPA standard by 2 to 4 percentage points. This is the result of previously Zell Miller qualifiers now meeting the HOPE GPA standard. Correspondingly, the percentage meeting the Zell Miller benchmark decreased by 12 to 13 percentage points across all years studied.

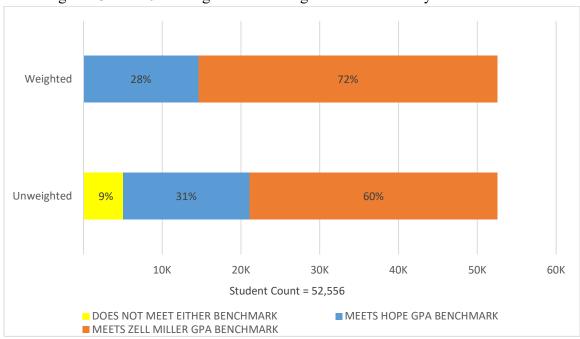


Figure 13: FY 2024 Weighted v. Unweighted Postsecondary HOPE GPA

GPA Recalculation: Unweighted GPA by Sector

- USG and private institutions have the same distribution as the overall population, but slight differences exist when examining TCSG in isolation⁶.
 - 36% of TCSG students were classified as meeting the HOPE GPA benchmark based on their initial weighted GPA. In the overall population this statistic is 28%.
 - 64% of TCSG students were classified as meeting the Zell Miller GPA benchmark based on their initial weighted GPA. In the overall population this statistic is 72%.
 - 13% of TCSG students no longer meet either benchmark once weights are removed. In the overall population this statistic is 9%.

⁶Figures depicting Classification Percentages by Institution Type for FY 2024, FY 2023, FY 2022, FY 2021, FY 2020, and FY 2019 can be found in Appendix D.

Conclusion

The current STEM course listing covers 132 subject areas, all of which are eligible for additional weighting in the HOPE Scholarship GPA calculation. For those students enrolled in STEM coursework, weight addition impacted approximately 22% of students. STEM weighting allowed these students to maintain a GPA at or above scholarship benchmarks.

Glossary of Terms

<u>Approved STEM Weighted Courses</u> – Science, technology, engineering, and mathematics (STEM) courses approved by the STEM Weighted Course Council for an additional weight of 0.5 to be given to grades of B, C and D. The courses are degree level and required for degrees leading to high demand STEM-related career fields in Georgia, as identified and approved by the Council.

<u>CHECS</u> – College HOPE Eligibility Calculation Service is a system designed and operated by GSFC to provide a centralized HOPE GPA calculation system for the academic eligibility of HOPE Scholarship, Zell Miller Scholarship, HOPE Grant, and Zell Miller Grant students attending HOPE-eligible postsecondary institutions throughout Georgia.

<u>Eligible Participating Postsecondary Institution</u> – One of currently 81 public and private postsecondary institutions in Georgia eligible for participation in state- and Lottery-funded scholarship, grant, and loan programs. Each eligible postsecondary institution must sign a four-year Institutional Participation Agreement with GSFC.

<u>GICA</u> – Georgia Independent College Association – An association of Georgia's private (independent), not-for-profit colleges and universities. https://georgiacolleges.org/

<u>GSFC</u> – Georgia Student Finance Commission.

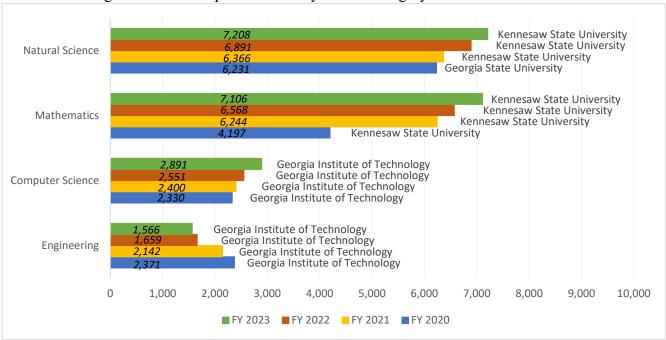
STEM Weighted Course Council –The group of individuals succeeding the 2016 HB 801 taskforce and consisting of at least one representative from USG, TCSG, GICA, GSFC, OPB, and a member of the Georgia General Assembly. The Council has sole responsibility and authority for identifying the STEM-related career fields in high demand in Georgia and which courses leading to a degree that lends itself to such careers are approved for an additional GPA weight of .05 on grades of B, C, or D for purposes of calculating the postsecondary HOPE GPA.

<u>TCSG</u> – Technical College System of Georgia.

<u>USG</u> – University System of Georgia.

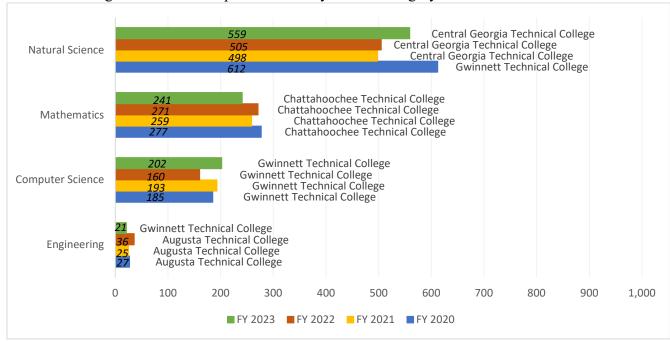
Appendix A

Figure 14: USG Top Institutions by STEM Category – Student Count



Source: CHECS Transcript data, GSFC

Figure 15: TCSG Top Institutions by STEM Category – Student Count



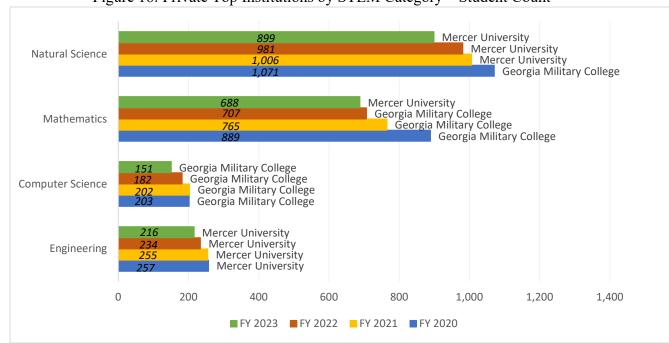
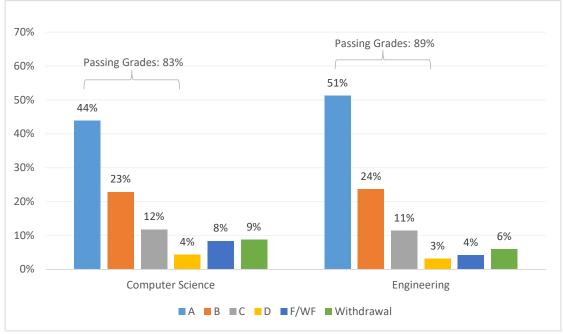


Figure 16: Private Top Institutions by STEM Category – Student Count

Appendix B

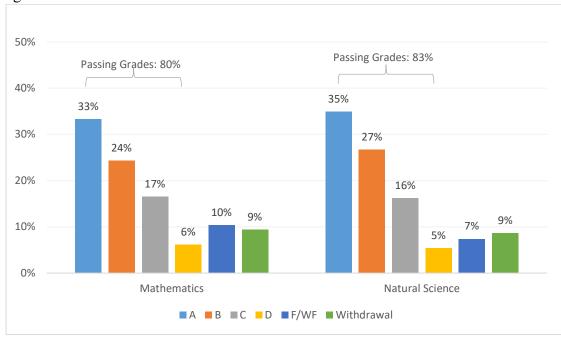
Figure 17: FY 2023 STEM Course Grade Distribution – Computer Science & Engineering



Source: CHECS Transcript data, GSFC.

Note: Category Totals may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, and Not Graded) that account for 1% or less of courses.

Figure 18: FY 2023 STEM Course Grade Distribution – Mathematics & Natural Science



Source: CHECS Transcript data, GSFC.

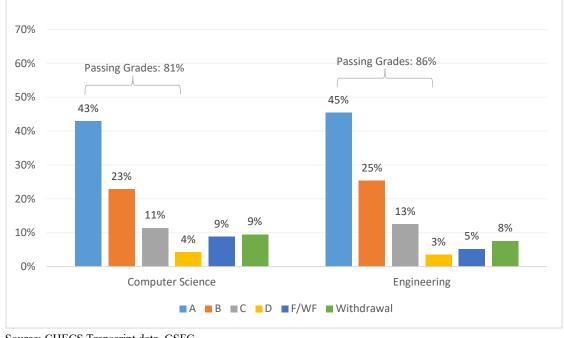


Figure 19: FY 2022 STEM Course Grade Distribution – Computer Science & Engineering

Note: Category Totals may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, and Not Graded) that account for 1% or less of courses.

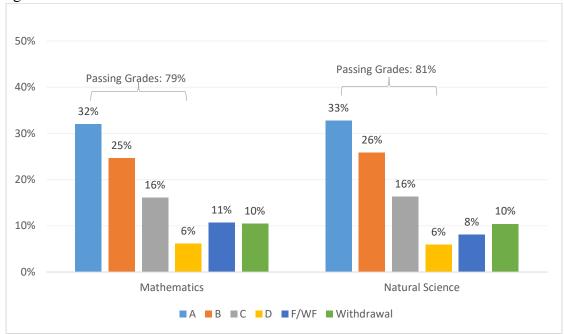


Figure 20: FY 2022 STEM Course Grade Distribution – Mathematics & Natural Science

Source: CHECS Transcript data, GSFC.

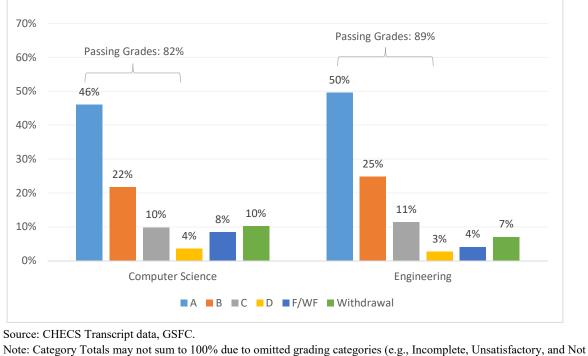


Figure 21: FY 2021 STEM Course Grade Distribution – Computer Science & Engineering

Note: Category Totals may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, and Not Graded) that account for 1% or less of courses.

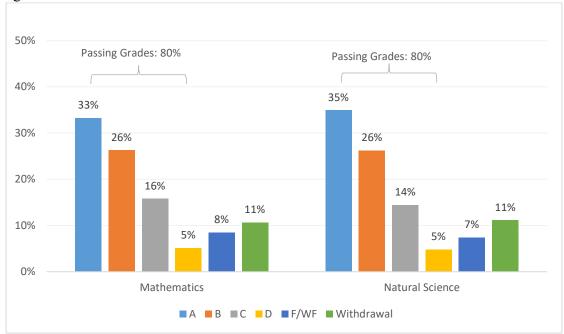


Figure 22: FY 2021 STEM Course Grade Distribution - Mathematics & Natural Science

Source: CHECS Transcript data, GSFC.

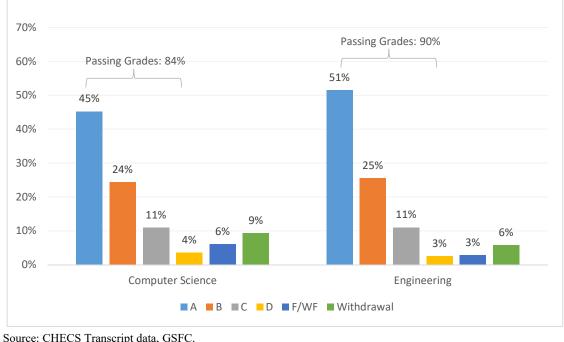


Figure 23: FY 2020 STEM Course Grade Distribution - Computer Science & Engineering

Note: Category Totals may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, and Not Graded) that account for 1% or less of courses.

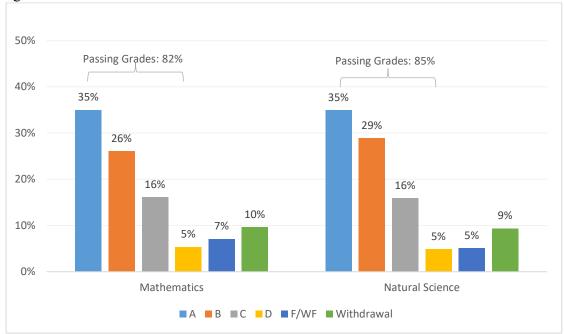


Figure 24: FY 2020 STEM Course Grade Distribution - Mathematics & Natural Science

Source: CHECS Transcript data, GSFC.

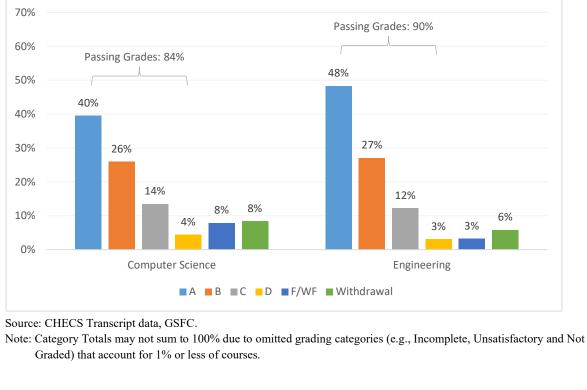


Figure 25: FY 2019 STEM Course Grade Distribution – Computer Science & Engineering

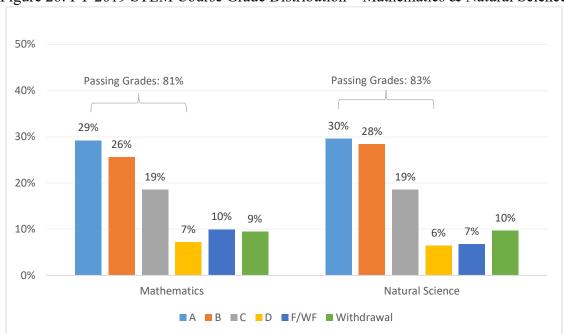


Figure 26: FY 2019 STEM Course Grade Distribution – Mathematics & Natural Science

Appendix C

Figure 27: FY 2024 Completion, Failure Rate, and Withdrawals by STEM Category and Institution Type

		<u>Completed</u>	Failing Grade	<u>Withdrawal</u>
	Computer Science	86%	6%	8%
	Engineering	90%	4%	6%
USG	Mathematics	81%	10%	9%
	Natural Science	87%	6%	7%
	Computer Science	72%	16%	12%
	Engineering	84%	8%	7%
TCSG	Mathematics	79%	9%	12%
	Natural Science	72%	11%	17%
	Computer Science	87%	6%	7%
Privates	Engineering	95%	2%	3%
	Mathematics	86%	6%	8%
	Natural Science	90%	4%	5%

Source: CHECS Transcript data, GSFC

Note: Rows may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, Not Graded) that account for 1% or less of courses.

Figure 28: FY 2023 Completion, Failure Rate, and Withdrawals by STEM Category and Institution Type

		Completed	Failing Grade	<u>Withdrawal</u>
	Computer Science	85%	7%	8%
	Engineering	89%	4%	6%
USG	Mathematics	80%	11%	9%
	Natural Science	85%	7%	8%
	Computer Science	69%	18%	13%
	Engineering	78%	12%	10%
TCSG	Mathematics	78%	11%	11%
	Natural Science	72%	12%	16%
	Computer Science	83%	6%	11%
	Engineering	95%	1%	4%
Privates	Mathematics	85%	6%	8%
	Natural Science	90%	4%	6%

Source: CHECS Transcript data, GSFC

Figure 29: FY 2022 Completion, Failure Rate, and Withdrawals by STEM Category and Institution Type

		<u>Completed</u>	Failing Grade	<u>Withdrawal</u>
	Computer Science	83%	7%	9%
	Engineering	87%	5%	8%
USG	Mathematics	78%	11%	11%
	Natural Science	82%	8%	10%
	Computer Science	69%	18%	13%
	Engineering	74%	13%	13%
TCSG	Mathematics	78%	11%	11%
	Natural Science	70%	11%	18%
	Computer Science	80%	7%	11%
	Engineering	91%	3%	5%
Privates	Mathematics	84%	7%	9%
	Natural Science	88%	5%	6%

Note: Rows may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, Not Graded) that account for 1% or less of courses.

Figure 30: FY 2021 Completion, Failure Rate, and Withdrawals by STEM Category and Institution Type

		Completed	Failing Grade	<u>Withdrawal</u>
	Computer Science	82%	8%	10%
	Engineering	89%	4%	7%
USG	Mathematics	80%	9%	11%
	Natural Science	82%	7%	11%
	Computer Science	74%	15%	12%
	Engineering	80%	9%	11%
TCSG	Mathematics	81%	9%	10%
	Natural Science	73%	10%	16%
	Computer Science	80%	8%	10%
	Engineering	92%	3%	5%
Privates	Mathematics	85%	6%	9%
	Natural Science	89%	4%	6%

Source: CHECS Transcript data, GSFC

Figure 31: FY 2020 Completion, Failure Rate, and Withdrawals by STEM Category and Institution Type

		Completed	Failing Grade	<u>Withdrawal</u>
	Computer Science	86%	5%	9%
	Engineering	91%	3%	6%
USG	Mathematics	83%	7%	10%
	Natural Science	86%	5%	9%
	Computer Science	76%	11%	13%
	Engineering	76%	9%	15%
TCSG	Mathematics	80%	8%	12%
	Natural Science	78%	6%	16%
	Computer Science	82%	5%	12%
	Engineering	94%	2%	3%
Privates	Mathematics	85%	5%	9%
	Natural Science	91%	3%	5%

Note: Rows may not sum to 100% due to omitted grading categories (e.g., Incomplete, Unsatisfactory, Not Graded) that account for 1% or less of courses.

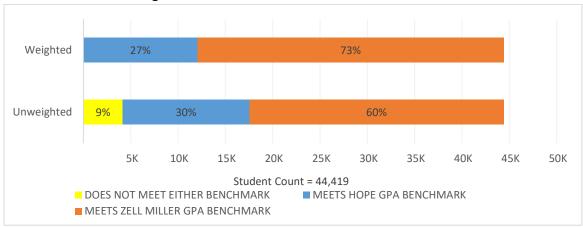
Figure 32: FY 2019 Completion, Failure Rate, and Withdrawals by STEM Category and Institution Type

		Completed	Failing Grade	Withdrawal
	Computer Science	85%	7%	8%
	Engineering	91%	3%	6%
USG	Mathematics	80%	10%	9%
	Natural Science	84%	7%	9%
	Computer Science	75%	14%	12%
	Engineering	73%	12%	15%
TCSG	Mathematics	79%	11%	11%
	Natural Science	77%	8%	15%
	Computer Science	85%	6%	9%
Privates	Engineering	94%	2%	4%
	Mathematics	86%	5%	9%
	Natural Science	90%	3%	5%

Source: CHECS Transcript data, GSFC

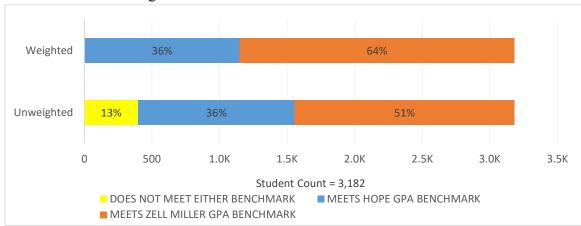
Appendix D

Figure 33: USG - FY 2024 GPA Classifications



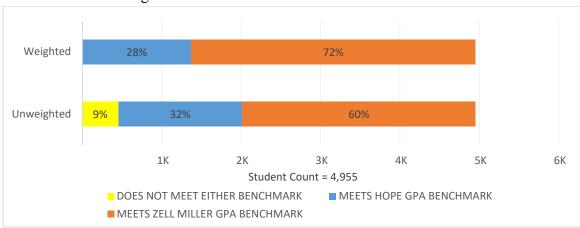
Source: CHECS Transcript data, GSFC.

Figure 34: TCSG – FY 2024 GPA Classifications



Source: CHECS Transcript data, GSFC.

Figure 35: Privates – FY 2024 GPA Classifications



Weighted 28% 72% Unweighted 10% 31% 59% 10K 20K 30K 40K 50K 60K Student Count = 49,780 DOES NOT MEET EITHER BENCHMARK ■ MEETS HOPE GPA BENCHMARK

Figure 36: FY 2023 Weighted v. Unweighted GPA

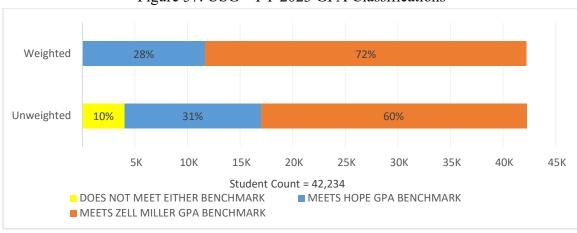


Figure 37: USG – FY 2023 GPA Classifications

Source: CHECS Transcript data, GSFC.

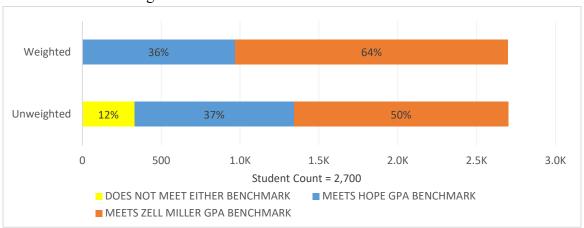


Figure 38: TCSG – FY 2023 GPA Classifications

Weighted

10%

28%

72%

Unweighted

10%

32%

59%

1K

2K

3K

4K

5K

6K

Student Count = 4,846

DOES NOT MEET EITHER BENCHMARK

MEETS ZELL MILLER GPA BENCHMARK

MEETS TELL MILLER GPA BENCHMARK

Figure 39: Privates – FY 2023 GPA Classifications

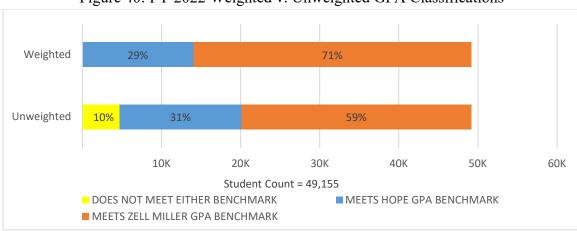


Figure 40: FY 2022 Weighted v. Unweighted GPA Classifications

Source: CHECS Transcript data, GSFC.

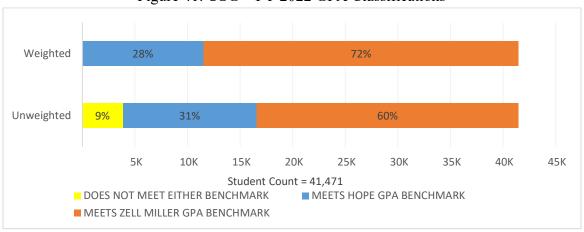


Figure 41: USG – FY 2022 GPA Classifications

Weighted 37% 63% Unweighted 13% 38% 49% 0 500 1.0K 1.5K 2.0K 2.5K 3.0K 3.5K Student Count = 2,893 DOES NOT MEET EITHER BENCHMARK ■ MEETS HOPE GPA BENCHMARK ■ MEETS ZELL MILLER GPA BENCHMARK

Figure 42: TCSG – FY 2022 GPA Classifications

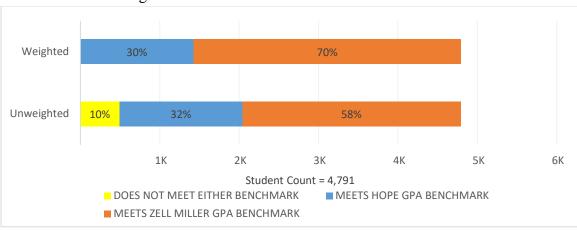


Figure 43: Privates – FY 2022 GPA Classifications

Source: CHECS Transcript data, GSFC.

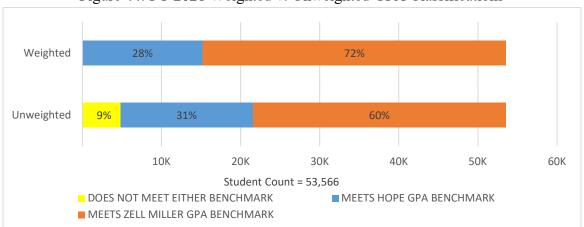


Figure 44: FY 2021 Weighted v. Unweighted GPA Classifications

Weighted 28% 72% Unweighted 31% 60% 5K 10K 15K 20K 25K 30K 35K 40K 45K 50K Student Count = 45,509 DOES NOT MEET EITHER BENCHMARK ■ MEETS HOPE GPA BENCHMARK ■ MEETS ZELL MILLER GPA BENCHMARK

Figure 45: USG – FY 2021 GPA Classifications

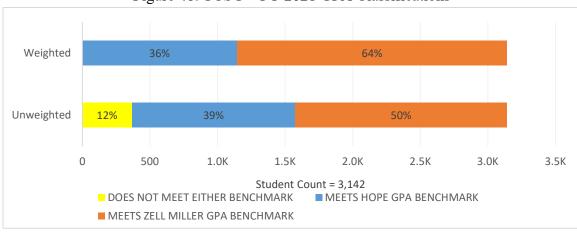


Figure 46: TCSG – FY 2021 GPA Classifications

Source: CHECS Transcript data, GSFC.

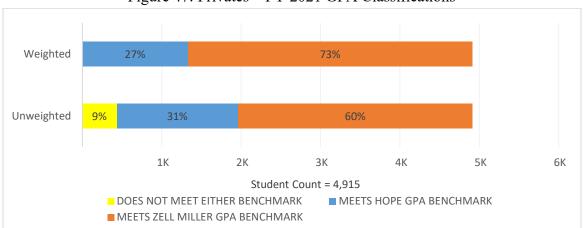


Figure 47: Privates – FY 2021 GPA Classifications

Weighted 30% 70% Unweighted 33% 58% 10K 20K 30K 40K 50K 60K Student Count = 53,711 DOES NOT MEET EITHER BENCHMARK ■ MEETS HOPE GPA BENCHMARK ■ MEETS ZELL MILLER GPA BENCHMARK

Figure 48: FY 2020 Weighted v. Unweighted GPA Classifications

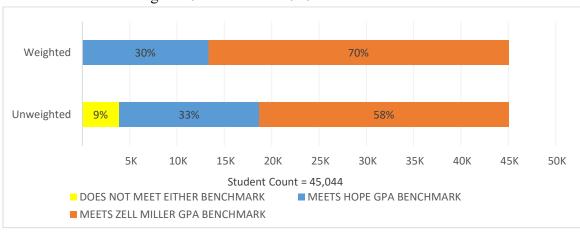


Figure 49: USG – FY 2020 GPA Classifications

Source: CHECS Transcript data, GSFC.

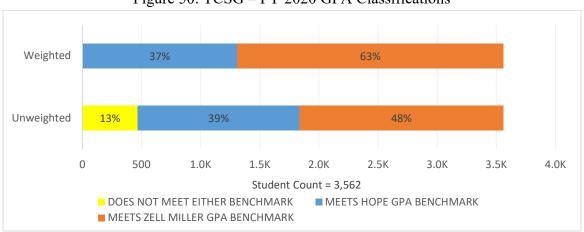


Figure 50: TCSG – FY 2020 GPA Classifications

Weighted

10%

30%

70%

1K

2K

3K

4K

5K

6K

Student Count = 5,105

DOES NOT MEET EITHER BENCHMARK

MEETS ZELL MILLER GPA BENCHMARK

Figure 51: Privates – FY 2020 GPA Classifications

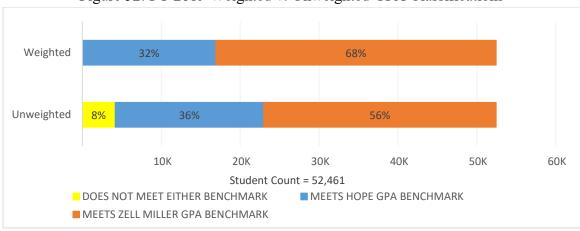


Figure 52: FY 2019 Weighted v. Unweighted GPA Classifications

Source: CHECS Transcript data, GSFC.

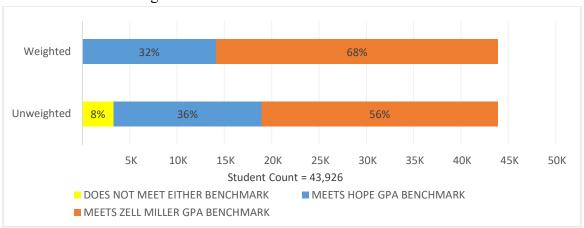


Figure 53: USG – FY 2019 GPA Classifications

Weighted 34% 66% Unweighted 12% 41% 47% 0 500 1.0K 1.5K 2.0K 2.5K 3.0K 3.5K 4.0K Student Count = 3,781 DOES NOT MEET EITHER BENCHMARK ■ MEETS HOPE GPA BENCHMARK ■ MEETS ZELL MILLER GPA BENCHMARK

Figure 54: TCSG – FY 2019 GPA Classifications

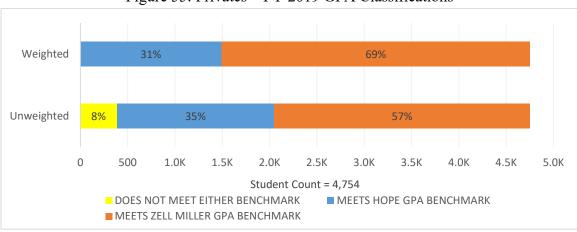


Figure 55: Privates – FY 2019 GPA Classifications