## General Education Learning Outcomes: Assessment Tools

Mathematics and Natural Science
Date: 5-2-2021

|  | Program Learning <br> Outcomes <br> wledge, skill, or behavior students can demonstrate upon completion | Measurement Tool | Timeline/Frequency of <br> Assessment | Target | Review |
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| 1 | In general education mathematics courses, students will: <br> Develop mathematical and other creative forms of problem-solving skills, understanding that these skills are useful in personal and professional contexts | Indirect assessment within the end of course evaluation using Hopedeveloped questions linked to learning outcomes for this element | Data collected each semester for annual assessment beginning 2020-21 |  | Results reviewed annually in the fall by the General Education Council beginning in 2021 |
| 2 | Understand both the benefits and limitations of mathematical and/or statistical models, particularly in the use of mathematics as the mode of communicating our understanding of the physical world and for the study of human society | Indirect assessment within the end of course evaluation using Hopedeveloped questions linked to learning outcomes for this element | Data collected each semester for annual assessment beginning 2020-21 |  | Results reviewed annually in the fall by the General Education Council beginning in 2021 |
| 3 | In addition to objectives specific to mathematics, GEMS mathematics courses emphasize the practical benefits of effective group work | Indirect assessment within the end of course evaluation using Hopedeveloped questions linked to learning outcomes for this element | Data collected each semester for annual assessment beginning 2020-21 |  | Results reviewed annually in the fall by the General Education Council beginning in 2021 |
| 4 | In general education science courses, students will: <br> Understand that science is a way of knowing based on observation, classification and hypothesis testing and that it has basic presuppositions and limitations | Indirect assessment within the end of course evaluation using Hopedeveloped questions linked to learning outcomes for this element | Data collected each semester for annual assessment beginning 2020-21 |  | Results reviewed annually in the fall by the General Education Council beginning in 2021 |



