##### **Appendix A**

**Research Survey**

**Satisfaction of Online Learning instrument**

(Davis, 2014)

*Student Characteristics*

Name: (Optional)\_\_­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Gender\*: [ ] Male [ ] Female

School\*:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade Level\*: [ ] G11 [ ] G12

Age\*: \_\_\_\_\_\_

What is the highest mathematics course that you successfully completed in high school?\* [ ] Algebra [ ] Geometry [ ] Pre-Calculus/Trigonometry

*Characteristics of Online Environment*

* How long is a class session for this online Mathematics class?\*

[ ] five hours a week [ ] three hours a week

* What time of day does your class meet?\*

[ ] morning [ ] afternoon [ ] evening [ ] no scheduled class session

* What modality is used for delivery?\*

 [ ] Asynchronous method (no face-to-face communication online)

 [ ] Synchronous method (face-to-face communication online)

 [ ] Both asynchronous and synchronous method

*\*Please provide necessary information*

**Instructions:** Read each statement carefully. Place an X mark on the choice corresponding the degree of your agreement to the statement. Answer all items with honesty. There are four choices for each statement which corresponds to the following:

1 – Strongly Disagree 2 – Disagree 3 – Neutal 4 – Agree 5 – Strongly Agree

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Statement** | **1** | **2** | **3** | **4** | **5** |
| **Effectiveness of Feedback** |
| 1. I am satisfied with my online learning experience because effective feedback related to my class work is constantly provided to me in terms of clarification for my questions about the course (e.g. assignments).
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because effective feedback related to my class work is constantly provided to me in terms of instruction on how to fix incorrect problems in assignments.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because effective feedback related to my class work is constantly provided to me in terms of sufficient explanations on my specific questions related to my class work.
 |  |  |  |  |  |
| **Timeliness of Feedback** |
| 1. I am satisfied with my online learning experience because timely feedback related to my class work is constantly provided to me so that I am able to complete my assignments efficiently.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because timely feedback related to my class work is constantly provided to me so that I am able to improve my assignments for better grades.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because timely feedback related to my class work is constantly provided to me so that I am more focused on learning.
 |  |  |  |  |  |
| **Use of Discussion Boards** |
| 1. I am satisfied with my online learning experience because I am able to communicate effectively with my instructor throughout the semester.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because online dialogue with my instructor helps me as I learn in the online course.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because I feel less distant in my online learning due to online dialogue with my instructor.
 |  |  |  |  |  |
| **Dialogue between instructors and students** |
| 1. I am satisfied with my online learning experience because I am able to communicate effectively with my instructor throughout the semester.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because online dialogue with my instructor helps me as I learn in the online course.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because I feel less distant in my online learning due to online dialogue with my instructor.
 |  |  |  |  |  |
| **Perception of Online Experiences** |
| 1. I am satisfied with my online learning experience because my personal needs as a student are met in the online environment.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because many aspects (features) of online education are enjoyable to me as a learner.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because overall, I would rather take online courses than traditional courses.
 |  |  |  |  |  |
| 1. I am satisfied with the ease of understanding of the math concepts in this virtual modality.
 |  |  |  |  |  |
| 1. I am satisfied with the asynchronous discussions (where you can post your activity at any time of the day).
 |  |  |  |  |  |
| 1. I am satisfied with the activities given in online classes.
 |  |  |  |  |  |
| **Instructor Characteristics** |
| 1. I am satisfied with my online learning experience because I still get the same explanation from online instructors as I do from traditional instructor.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because online instructors and traditional instructors offer the same amount of help with my learning issue.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because technology makes online instructors more creative in teaching than a more traditional classroom.
 |  |  |  |  |  |
| **The feel of a learning community** |
| 1. I am satisfied with my online learning experience because the online environment is like a community where I can communicate with other students.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because the online environment promotes sufficient sharing and caring among students.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because the online environment is a safe place where I can be confident in completing group work with other students in the class.
 |  |  |  |  |  |
| **Computer-mediated Communication** |
| 1. I am satisfied with my online learning experience because computer-mediated communication makes me feel like a real person when I communicate in the online environment.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because computer-mediated communication makes it easier to form meaningful relationships among students in the online environment.
 |  |  |  |  |  |
| 1. I am satisfied with my online learning experience because computer-mediated communication allows me to feel the presence of my instructor and other students in the online environment.
 |  |  |  |  |  |

* Please provide any additional comments that you consider important in order to improve teaching and learning in an online environment.\*

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* Knowing that you have experienced online learning, what modality of learning would you prefer when you will take up college?\*

 [ ] Traditional (face-to-face) courses

 [ ] Online Class

 [ ] Hybrid courses (a portion of traditional face-to-face instruction with web-based online learning)

* Did online learning help you become more confident in your math abilities?\*

 [ ] Yes

 [ ] No