

Introduction

- Playing a musical instrument increases cognitive ability (Janurik & Jozsa, 2022).
- Much research has been done on the relationship between musical ability and academic performance (Cabanac, Perlovsky, & Cabanac, 2013).
- Studies even conclude that schoolbased music training has an effect on memory and learning (Roden, I. et al., 2012).
- There is a lack of research evidence on the relationship between students who actively play a musical instrument but do not take a music course and their academic performance.
- The aim- to study what is the relationship between students who actively play 1 or more musical instruments and their GPA's.

Music and academic performance **Christal Mapson and David Caicedo, PhD.** Social Sciences, Human Services, and Criminal Justice Department

Methodology

- Taget sample: 500 participants (an estimated 60% women, 40% males).
- Recruited online through their professors and offered extra as compensation for completion.
- Participants play at least one musical instrument.
- Participants completed the online survey via a Qualtrics link, outside of their class time,
- Participants answered 14 close-ended questions about their demographics, musical ability, and academic performance.
- Some of the questions asked on the survey were, "How many hours do you play weekly?", "How long have you been playing?", and "What is your GPA?".

Results

All participants are expected to play at least one musical instrument. It is predicted that most students play a musical instrument for 5 to 9 hours a week. It is predicted that most participants have been playing a musical instrument for over a year. It is predicted that most students have taken music classes outside of school. F A positive correlation between the ability to play musical instruments and academic performance.

Figure #1 shows a sample of the questions asked in the survey.

 If yes, how long have you been playing? less than 6 months
-6 months - 1 year
 - 1 year – 5 years - More than 5 years
• How many hours do you play weekly?
-less than an hour
- 1-2 hours
- 3-4 hours
- 5-9 hours
- 10-15 hours - 20- 30 hours
-30+ hours
- I do not play currently
 Have you taken any music courses in school?
- Yes
- No
• Do you take any music classes outside of school?
- Yes
- No
 What is your major?
- Mathematics
 Natural science (please specify) _
- Geography
- Criminal justice
 Social science (please specify)
- Language arts

of non-music students and their GPAs.

Knowing this may encourage students to enhance their academic

performance whether they are willing to part take in music academically or

not.

One limitation would be a limited

sample size only recruited from the

social department.

A future implication can be

understanding the role of gender and

musical ability in academic

Cabanac, A., Perlovsky, L., M-C., & Cabanac, M. (2013). Music and academic performance. Behavioral Brain Research, 256, 257-260 Janurik, M., & Jozsa, K. (2022). Long-term impacts of early musical abilities on academic achievement: A longitudinal study. Journal of Intelligence, 10 (3), 1-

• Roden, I.et al,. (2012). *Effects of a school-based instrumental music program* on verbal and visual memory in primary school children: A longitudinal study. Frontiers in Psychology

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Conclusions

Hypothetically, there is a positive

correlation between the musical ability

performance

References

Acknowledgment

