FACTORS AFFECTING COLLEGE DEGREE PREFERENCES OF SHS STEM STUDENTS OF THE COLLEGE OF ENGINEERING AND TECHNOLOGY OF WESTERN MINDANAO STATE UNIVERSITY

SALIMAR BENDANILLO TAHIL¹

¹Western Mindanao State University, Zamboanga City, Philippines ¹tahil.salimar@wmsu.edu.ph

ABSTRACT

The enforcement of the Senior High School (SHS) in the Philippines has caused fear among college programs of higher education institutions such as Western Mindanao State University (WMSU) that they might have a low turnout of enrollees. This research sought to identify factors impacting the college degree choice of Grade 12 STEM students of WMSU concerning the number of enrollees to its college degree programs. Results served as inputs on what measures can be taken by programs with a low number of enrollees. The study employed a descriptive-quantitative research design. Data were collected using a validated survey questionnaire on 160 students. The results revealed that interest factors were considered very influential among the five leading factors. Opportunity and personality factors have influenced students' college degree preference. In contrast, family factors somehow influenced them, while Peer factors have less influence on determining their college degree. The study further revealed that programs that integrate actual work experiences, have abundant career opportunities, and individual personality ideal to their chosen career significantly impacts students, thereby boosting their interest in pursuing that program. Students are also aware that family support is one crucial factor that affects their decision. However, no significant difference in the influence of family, interest, opportunity, and peer factors among graduating SHS STEM students, except for personality factors. Thus, a comprehensive information dissemination campaign regarding the program – its value, influence, and even employability, must be done by the college units is recommended.

Keywords

senior high school, K-12, college degree preference, influence factors

Article Received: 10 August 2020, Revised: 25 October 2020, Accepted: 18 November 2020

Introduction

President Benigno "Ninoy" Aquino III signed into law on 15 May 2013 the K to 12 Program or Republic Act 10533, better known as the Enhanced Basic Education Act of 2013. (Official Gazette, 2013). The twelve-year basic education program aims to produce graduates who are competent to serve as the backbone of a highlyskilled and employable workforce. A significant modification is implementing Senior High School (SHS), an enhancement to the basic education program, which added two years in secondary education. The goal of SHS is to provide adequate time to master concepts and skills, develop lifelong learners, and prepare graduates for tertiary education, development of middle-level skills, employment and entrepreneurship (Official Gazette, 2013.). The SHS program will allow secondary school graduates to become mature enough to make sound career decision making regardless of their path. The Implementing Rules and Regulation (IRR) of the Republic Act (R.A.) No. 10533 stipulates that DepEd shall forge

alliances with higher education institutions (HEIs) to oversee the initial introduction of the enhanced basic education programme. And the projected low multi-year enrollment turnout for HEIs beginning in the 2016-2017 school year should be mitigated (Official Gazette, 2013).

The Western Mindanao State University (WMSU), the lead and the comprehensive state university of Western Mindanao, is among the many HEIs offering SHS, under the Office of the Vice President for Academic Affairs (OVPAA). It has 1183 SHS students under various tracks and strands during the second semester of the school year (S.Y.) 2017-2018. WMSU is offering academic, and technical-vocational-livelihood (TVL) tracks. Science, Technology, Engineering, and Mathematics (STEM) and General Academic Strand (GAS) are under the academic track. In contrast. Information and Communications Technology (ICT) and Home Economics (HE) are under the TVL track. Sports track is also available in WMSU. The pioneering batch of SHS students started in the S.Y. 2016-2017 and will complete their secondary education by the S.Y. 2017-2018.

The SHS program implementation has caused fear among teachers and non-teaching staff in HEIs, such as WMSU, that they would lose their jobs due to the lack of college enrollees. For the past years before the implementation of SHS in WMSU, it has been observed that some college degree programs have lesser enrollees compared to others, which caused other programs to have a lesser number of students. It may be due to the lack of students' information on the program's existence, value, impact, or even employability. However, SHS offering in WMSU will pave the number of college enrollees in the university since there will be a low enrollment turnout of tertiary students for two consecutive academic years due to the SHS implementation program. Despite the former, it is still observed that some college degree programs have a lesser number of enrollees as compared to others. This situation leads to insufficient teaching load for some faculty members, requiring them to solicit teaching load from related programs just so the minimum regular teaching load of 18 hours will be attained.

Due to the unequal number of enrollees between college degree programs, college department heads need to be aware of the underlying factors considered by graduating secondary students when choosing programs to pursue in college. The pioneering batch of the enhanced education program's college degree preferences is crucial to HEIs like WMSU. This problem prompted the researcher to assess the factors that had an effect on the choice of Grade 12 STEM students of the College of Engineering and Technology (CET) of WMSU, which, in turn, will determine why some programs have more enrollees than others. This research's findings are significant to the WMSU and CET management in crafting strategies and plans that will better attract SHS graduates to enroll in college degree programs.

METHODS

A descriptive-quantitative research design method was utilized in this study. The respondents were Grade 12 SHS students under the Science, Technology, Engineering, and Mathematics (STEM) strand of the College of Engineering and Technology of Western Mindanao State University. They were classified based on gender and were determined using total enumeration sampling. A total of 160 respondents, 84 are Male and 76 are Female, participated in this study.

A survey questionnaire in gathering data was used for this study. The questionnaire is divided into three (3) sections with twenty-two (22) questions. The first section deals with the demographic profile of the respondents. The second section centered on the respondents' course preference to take in college and specialization (if any). And the third section, which is the questionnaire proper, focused on the factors that influenced the respondent's answers in the second section. Respondents evaluate each item using a Likert's scale of 1 to 5 with 1, lowest as "not influenced" and 5, highest as "very much influenced." Part 3 of the survey questionnaire for this study was adopted from the survey questionnaire used in the study of Japitan, Camangyan, Rodrigo, Paez, Remeticado, and Bacarisas in 2015. However, with the oral examination committee's suggestion, the researcher added four (4) more questions under the "Peer" factor, which is not included in the latter.

The instrument utilized in this study was contentvalidated and reviewed by three (3) experts who have a masters degree in education.

A request letter was given to the Dean of the CET through the college's senior high school coordinator to seek approval to conduct the survey. Upon approval of the request, the researcher distributed the survey questionnaires per classroom during break time to not disturb the classes. The respondents were provided sufficient time to respond to the survey questionnaire while researcher waiting. was the The survey questionnaires were collected right after the respondents answered it. Students who were absent during the classroom distribution of the questionnaires were no longer considered as respondents of the study. The researcher adheres to confidentiality and ethical standards in dealing with the gathered data.

Weighted mean, frequency distribution, independent samples t-test, and range were the statistical tools used in analyzing and interpreting the survey results.

RESULTS, DISCUSSIONS, AND CONCLUSIONS

This section analyzes, simplifies, and presents the gathered data from a total of 160 respondents representing the CET STEM Grade 12 students of

WMSU. A survey questionnaire was distributed to the class presidents, and out of 183 target respondents, a total of 160 respondents were able to answer and return the survey questionnaire. Some respondents were not able to answer the survey questionnaire because they were absent during the conduct of the survey. Nevertheless, still, the majority of the target respondents participated in the study.

Table 1

Number	of	Respondents	per	Section	per
Gender					

Section	Male	Fema	Tota
Section	Walc	le	1
CET STEM 12 A	16	18	34
CET STEM 12 B	17	18	35
CET STEM 12 C	16	14	30
CET STEM 12 D	17	16	33

CET STEM 12 E	18	10	28
TOTAL	01	76	140
RESPONDENTS	04	70	100

The table above shows the total number of respondents. Eighty-four (84) out of 160 or 52.50% of the respondents are male, while seventy-six (76) or 47.50% are female.

What factors significantly affect the SHS students' college degree preference among the areas of Personality, Family, Interests, Opportunities, and Peers?

The tables below show the perceptions of Grade 12 STEM students in terms of the level of influence of the leading factors that affect their college degree preference.

to them as influential in choosing their college

	Table 2 V	Weight	ed Mean on I	Person	ality Factors		
		Male		Fema	ıle	Crand	Intorprototi
PERS	PERSONALITY FACTORS		Interpreta	Me	Interpreta	- Granu Moon	on
		n	tion	an	tion	Ivitali	011
1.	My personality is best suited to the chosen career that I would take from this course.	4.06	Influenced	3.82	Influenced	3.94	Influenced
2.	My knowledge of science and/or mathematics and course comprehension will give me an advantage in getting to my career.	3.85	Influenced	3.64	Influenced	3.75	Influenced
3.	I'm going to be more effective with my career that I'm going to practice because of my attributes.	4.18	Influenced	3.99	Influenced	4.09	Influenced
4.	My qualities should be suitable for the profession I'd like to work on.	4.23	Very Much Influenced	3.97	Influenced	4.11	Influenced
ALL		4.08	Influenced	3.86	Influenced	3.97	Influenced
Legen	d: 4.21 – 5.00 Very Much Int	fluence	d 2.61	- 3.40	Somewhat Int	fluenced	1.00 - 1.80
Not In	fluenced						
	3.41 – 4.20 Influenced		1.81	-2.60 l	Less Influence	ed	_
ble 2 e	exhibits several personality	factors	that S	TEM (Grade 12 Fem	nale respo	ndents rated all
ght hav	re influenced CET STEM 12	2 studer	ts to the t	he pers	onality factor	rs as Influ	enced. Altogeth
oose th	eir college degree. Based o	n the t	able, tl	he findi	ings revealed	a grand m	ean of 3.97 wit
e fourth	n factor exhibited the highe	est mea	n of c	orrespo	onding interpr	etation of	f <i>Influenced</i> . T
23 with	an equivalent interpretation	on of	Very in	ndicates	s that Male an	d Female	CET STEM Gra
uch Inf	<i>luenced</i> . In contrast, other	persor	nality 1	2 stude	ents consider	personalit	y factors presen

degree.

factors were rated as Influenced by the CET

STEM Grade 12 Male respondents. Next, the CET

Table 3 Weighted Mean on Family Factors								
	Male		Fema	le	Gran	Intorprototio		
FAMILY FACTORS	Mea n	Interpreta tion	Mea n	Interpretat ion	d Mean	n		
1. My parents followed the same path that I was going to take.	2.17	Less Influenced	1.88	Less Influenced	2.03	Less Influenced		
2. It is my parents who chose my path.	1.98	Less Influenced	1.91	Less Influenced	1.94	Less Influenced		
3. In my chosen path, my family will provide me with support.	4.46	Very Much Influenced	4.57	Very Much Influenced	4.52	Very Much Influenced		
4. I think my family is responsible for selecting a career for me and they know what's best for me.	2.40	Less Influenced	2.09	Less Influenced	2.26	Less Influenced		
ALL	2.75	Somewhat Influenced	2.61	Somewhat Influenced	2.69	Somewhat Influenced		
Legend: 4.21 – 5.00 Very Much In	fluence	d 2.61	- 3.40 \$	Somewhat Infl	uenced	1.00 - 1.80		
Not Influenced								
3.41 – 4.20 Influenced		1.81 -	- 2.60 I	Less Influenced	1			
		S	TEM (Grade 12 res	pondents	s. Altogether, t		

Table 3 exhibits several family factors that might have influenced CET STEM 12 students to choose their college degree. Based on the table, the third factor exhibited the highest grand mean of 4.53 with an equivalent interpretation of *Very Much Influenced*. Other family factors were rated *Less Influenced* by both the Male and Female CET STEM Grade 12 respondents. Altogether, the findings revealed a grand mean of 2.69 with a corresponding interpretation of *Somewhat Influenced*. This indicates that somehow the family has influenced the decision-making of CET STEM Grade 12 students regarding their college degree preferences.

Table 4 Weighted Mean on Interest Factors								
	Male		Fema	le	Gran			
INTEREST FACTORS	Mea n	Interpretat ion	Mea n	Interpreta tion	d Mea n	Interpretatio n		
1. This profession that I'm pursuing from this course interests me in particular.	4.55	Very Much Influenced	4.42	Very Much Influenced	4.49	Very Much Influenced		
2. I like to do the career- related stuff I want to specialize in.	4.45	Very Much Influenced	4.23	Very Much Influenced	4.35	Very Much Influenced		
3. Experience has developed my interest in this profession.	4.01	Influenced	3.78	Influenced	3.90	Influenced		
4. In this work which I will follow from this course, I see myself capable.	4.13	Influenced	4.14	Influenced	4.13	Influenced		
ALL	4.29	Very Much Influenced	4.14	Influenced	4.22	Very Much Influenced		
Legend: $4.21 - 5.00$ Very Much II	nfluence	ed 2.6	1 - 3.4	0 Somewhat	Influenc	ed 1.00 –		
1.80 Not Influenced								
3.41 – 4.20 Influenced		1.81 –	2.60 L	ess Influenced	1			

Table 4 exhibits several interest factors that might have influenced CET STEM 12 students to choose their college degree. Based on the table, the first two factors exhibited the highest grand mean of 4.49 and 4.35 respectively with an equivalent interpretation of *Very Much Influenced*. In contrast, other interest factors were rated *as Influenced* by Male and Female CET STEM Grade 12 respondents. Altogether, the findings revealed a grand mean of 4.22 with a corresponding interpretation of *Very Much Influenced*. Also, it can be noted that male respondents were *Very Much Influenced*, while female respondents were *Influenced*. This indicates that, in general, individual's interests in their preferred career have a factor on what degree to take in college.

. .

	Male		Fema	le	Gra	
RTUNITY FACTORS	Mean	Interpretat ion	Mea n	Interpreta tion	nd Mea n	Interpretati on
There are plenty of opportunities that I can take advantage of from my profession.	4.18	Influenced	4.29	Very Much Influenced	4.23	Very Much Influenced
The path I've selected will help me quickly choose the right profession.	4.21	Very Much Influenced	4.39	Very Much Influenced	4.30	Very Much Influenced
The career I'd follow is timely on demand.	4.01	Influenced	4.17	Influenced	4.09	Influenced
I am well conscious of the possibilities that accompany the profession that I am searching for.	4.15	Influenced	4.18	Influenced	4.17	Influenced
	4.14	Influenced	4.26	Very Much Influenced	4.20	Influenced
: 4.21 – 5.00 Very Much Inf	luenced	2.61 -	3.40 So	omewhat Influ	enced	1.00 - 1.80
luenced						
3.41 - 4.20 Influenced		1.81 - 2	2.60 Le	ss Influenced		
	0	fac	tors as	Very Much I	nfluence	ed with an ove
khibits several opportunity	tactors	that me	an of 4	.26 as compa	red to the	hat of CET ST
e influenced CET STEM 12	student	s to Gra	ade 12	male respon	dents v	who overall r
· 11 1 D 1						
	RTUNITY FACTORS There are plenty of opportunities that I can take advantage of from my profession. The path I've selected will help me quickly choose the right profession. The career I'd follow is timely on demand. I am well conscious of the possibilities that accompany the profession that I am searching for. I: 4.21 – 5.00 Very Much Influenced 3.41 – 4.20 Influenced xhibits several opportunity e influenced CET STEM 12	Male MeanRTUNITY FACTORSMeanThere are plenty of opportunities that I can take advantage of from my profession. 4.18 The path I've selected will help me quickly choose 4.21 the right profession. 4.01 The career I'd follow is timely on demand. 4.01 I am well conscious of the possibilities 4.15 I am well conscious of the possibilities 4.15 I am searching for. 4.14 I: $4.21 - 5.00$ Very Much Influenced 4.14 I: $4.21 - 5.00$ Very Much Influenced $3.41 - 4.20$ InfluencedXhibits several opportunity factors e influenced CET STEM 12 student	MaleRTUNITY FACTORSMeanInterpretat ionThere are plenty of opportunities that I can take advantage of from my profession.4.18InfluencedThe path I've selected will help me quickly choose the right profession.4.21Very Much InfluencedThe career I'd follow is timely on demand.4.01InfluencedI am well conscious of the possibilities that I am searching for.4.15InfluencedI: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced1.81 - 11.81 - 1I: 4.21 - 5.00 Very Much Influenced	MaleFemaRTUNITY FACTORSMeanInterpretat ionMean ionMean nThere are plenty of 	MaleFemaleRTUNITY FACTORSMeanInterpretat ionMeaInterpreta tionThere are plenty of opportunities that I can take advantage of from my profession.4.18Influenced4.29Very Much InfluencedThe path I've selected will help me quickly choose the right profession.4.21Very Much Influenced4.39Very Much InfluencedThe career I'd follow is timely on demand.4.01Influenced4.17InfluencedI am well conscious of the possibilities that I am searching for.4.14Influenced4.18Influenced1.4.14Influenced4.26Very Much InfluencedInfluenced1.81 - 2.60 LessInfluenced3.41 - 4.20Influenced1.81 - 2.60 LessInfluenced InfluencedInfluencedInfluenced3.41 - 4.20Influenced1.81 - 2.60 LessInfluenced InfluencedInfluenced3.41 - 4.20Influenced1.81 - 2.60 LessInfluencedInfluenced1.81 - 2.60LessInfluencedInfluenced1.81 - 2.60LessInfluence	MaleFemaleGra ndRTUNITY FACTORSMeanInterpretat ionMeaInterpreta tionnd Mea nThere are plenty of opportunities that I can take advantage of from my profession.4.18Influenced4.29Very Much Influenced4.23The path I've selected will help me quickly choose the right profession.4.21Very Much Influenced4.39Very Much Influenced4.30The career I'd follow is timely on demand.4.01Influenced4.17Influenced4.09I am well conscious of the possibilities that I am searching for.4.15Influenced4.18Influenced4.17L 4.14Influenced4.18Influenced4.174.20I: 4.21 - 5.00 Very Much Influenced uenced1.81 - 2.60 Less Influenced4.20Stat - 4.20 Influenced1.81 - 2.60 Less Influenced1.81 - 2.60 Less InfluencedAt - 4.20 Influenced1.81 - 2.60 Less Influenced1.81 - 2.60 Less Influencedthe influenced CET STEM 12 students toGrade 12 male respondents

might have influenced CET STEM 12 students to choose their college degree. Based on the table, the first two factors exhibited the highest grand mean of 4.23 and 4.30 respectively with an equivalent interpretation of *Very Much Influenced*. In contrast, other opportunity factors were rated as *Influenced* by Male and Female CET STEM Grade 12 respondents. However, it can be noted that female respondents consider opportunity factors as *Very Much Influenced* with an overall mean of 4.26 as compared to that of CET STEM Grade 12 male respondents who overall rated opportunity factors as *Influenced* with an overall mean of 4.14. Altogether, the findings revealed an total mean of 4.20 with an equivalent interpretation of *Influenced*. This implies that the type of career that the students can obtain from their preferred college degree has a significant factor in choosing their course.

Table 6 Weighted Mean on Peer Factors

	Male		Fema	ale	Gra	
PEER FACTORS	Mea	Interpreta tion	Mea	Interpreta tion	nd Mea	Interpretation
		uon		uon	n	
1. The preference of my friend inevitably influences my choice of a	2.37	Less Influenced	2.16	Less Influenced	2.27	Less Influenced

	course.						
2.	My friends encouraged me to take my chosen course.	2.25	Less Influenced	2.31	Less Influenced	2.28	Less Influenced
3.	My peers have a great influence in my course of preference.	2.46	Less Influenced	2.24	Less Influenced	2.36	Less Influenced
4.	Bits of advice from family friends who experienced or took the same course have influenced my choice of course.	3.20	Somewhat Influenced	3.09	Somewhat Influenced	3.15	Somewhat Influenced
ALL		2.57	Less Influenced	2.45	Less Influenced	2.52	Less Influenced
Table 6 e influenced college d factor exh with an <i>Influenced</i> rated <i>Les</i> Female 0 Altogethe 2.50 with <i>Influenced</i> general, h 12 studer college de Is there a factors t	fluenced <u>3.41 – 4.20 Influenced</u> whibits several peer factors d CET STEM 12 students to a egree. Based on the table, hibited the highest grand ma- equivalent interpretation of <i>d</i> . In contrast, other peer fa- ts Influenced by both the CET STEM Grade 12 r r, the findings revealed a gran- a corresponding interpretat <i>d</i> . This indicates that peer ave less influence on CET ST ints' decision making in cho- egree preferences. a significant difference in the hat affect the responden	might l choose t the for ean of <i>Somew</i> actors w Male esponde ind mea ion of factors TEM G posing t the lead t's col	$ \begin{array}{c} 1.81 - \\ 1.81 - \\ their sc vurth fa 3.15 Ir what th were m and th ents. 0. in of be Less s, in rade their ding lege$	<u>- 2.60 L</u> he follo core of adepend a signif aean sco ae signif 05 (p- etween t	ess Influence owing tables male and nd its equiva ent T-test san icant differen ores of male ficance value value), then the two mean	d present female lent p-v nples w ce in all and fen is equal a sig scores e	the overall mean respondents in all value (significance). ere used to analyze factors between the nale respondents. If to or less than the nificant difference exists.
course p	references when data ar	e grou	iped				

Table 7 T-Test on the Level of Influence of Personality Factors per Gender

Varia ble	x		t- value	p- value	Remark
Gende r	Male	4.0 9	2.209	0.029	Significa nt
	Fema le	3.8 6	1		

Table 7 reveals a higher mean score recorded on the level of influence of personality factors on male respondents ($\overline{x} = 4.09$) than that of female respondents ($\overline{x} = 3.86$). The p value

(p=0.029) is less than the significance value (0.05), therefore the hypothesis is rejected. It implies that each gender perceived personality factors differently in determining their college degree preferred.

according to gender?

T-Test on the Level of Infl	uence of Fa	amily Fa	actors per	Gender
Varia x	t-	p-	Remar	-
ble	value	value	k	

Table 8

ble			value	value	k
Gende r	Male	2.7 5	1.049	0.296	Not Signific
	Fema le	2.6 1	1		ant

Table 8 reveals a mean score recorded on the level of influence of family factors on male respondents ($\overline{x} = 2.75$) and female respondents ($\overline{x} = 2.61$). The p value (p=0.296) is higher than significance value (0.05), therefore the hypothesis is accepted. It implies that both genders perceived family factors as somewhat influential in determining their college degree preferred.

 Table 9

 T-Test on the Level of Influence of Interest Factors per Gender

Variabl e	X		t- value	p- value	Remar k
Gender	Male	4.2 9	1.213	0.227	Not Signific
	Fema le	4.1 4	I		ant

Table 9 reveals the computed mean score recorded on the level of influence of interest factors on male respondents ($\overline{x} = 4.29$) and female respondents ($\overline{x} = 4.14$). The p value (p=0.227) is higher than significance value (0.05), therefore the hypothesis is accepted. It implies that male and female graduating SHS students mostly agree that interest is one factor considered to affect their college degree preference. As noted in Table 4, it is evident that both genders are particularly interested in the possible career from their desired college degree. Also, both genders are interested in specialized activities related to their chosen profession, which significantly affects choosing their college degrees.

Table 10	
T-Test on the Level of Influence of Opportunity Factors per	Gender

	Variable	X		t- value	p- value	Remar k
ſ	Gender	Male	4.1 4	- 1.075	0.284	Not Signific
		Fema le	4.2 6	1		ant

Table 10 reveals a higher mean score recorded on the level of influence of opportunity factors on female respondents ($\overline{x} = 4.26$) than that of male respondents ($\overline{x} = 4.14$). The p value (p=0.284) is higher than significance value (0.05), therefore the hypothesis is accepted. It

implies that both genders perceived opportunity factors as influential in determining their college degree preferred next to interest factors. However, as noted in Table 5, female respondents were highly influenced by the number of opportunities available from the career they intend to pursue.

Variab le	x		t- value	p- value	Remar k
Gender	Male	2.5 7	0.676	0.500	Not Signific
	Fema le	2.4 6	1		ant

 Table 11

 T-Test on the Level of Influence of Peer Factors per Gender

Table 11 reveals a mean score recorded on the level of influence of peer factors on male respondents ($\bar{x} = 2.57$) and female respondents ($\bar{x} = 2.46$). The p value (p=0.500) is higher than significance value (0.05), therefore the hypothesis is accepted. It implies that both genders perceived family factors as less influential in determining their college degree preferred. However, as shown in Table 6, both genders somehow consult with their family friends or someone who took a college degree of their preference. Bits of Advice they get from these people somehow influence them in considering their desired degree in college.

Conclusions

- 1. The research findings reveal that the pioneering batch of graduating SHS STEM students from the College of Engineering and Technology of Western Mindanao State University agrees that personal interest is one leading factor affecting their college degree preference significantly. Abundant career opportunities and an individual personality or attribute ideal to their chosen career have greatly influenced students' decision to select their preferred college degree.
- 2. Students are also aware that family support is one crucial factor that affects choosing a preferred college degree. However, overall, they do not rely on the family's preference for choosing their desired college program. Furthermore, peer factors have a lesser impact on determining their college degree, except that they consult them for assurance.
- 3. The study showed a significant difference in the impact of personality factors in determining college degree preference while no significant difference in the

influence of family, interest, opportunity, and peer factors on male and female graduating SHS STEM students.

Recommendations

- 1. It is recommended that the WMSU, specifically the SHS department, develop a career-orientation program for graduating SHS students since no such plan is in place yet. There must be an avenue for career orientation for graduating SHS students. In this way, students will grasp their future career they would like to pursue before entering college. This career-orientation program will help SHS students identify the right degree for them in college, eventually bringing them to their desired job. Most importantly, family members, especially the parents, be involved in developing the career-orientation program of students in order to personally assist their children in choosing which degree best suits their child's interest, personality, skills, and academic ability.
- 2. To attract students to enroll in college programs, subject teachers teaching in SHS must boost their interest in the subject they are leading by providing students first-hand experiences on how it feels like to be in the actual workplace. It can be reinforced by integrating careerrelated activities into the curriculum.
- 3. As for the college units, wide information dissemination regarding the program - its value, impact, and even employability, must be done by the program's concern to attract students. Furthermore, each program or college can also provide essential information regarding the career they can get out of the program, the advantages of taking the degree like the

557-585.

annual income, and the comfort it will bring to them in the future. The department heads should ensure that a competency-based curriculum is in place to guide students in their career choice.

REFERENCES

- [1] Alexander, P.M., Holmner, M., Lotriet, H.H., Matthee, M.C., Pieterse, H.V., Naidoo, S., Twinomurinzi, H., & Jordaan, D. (2010). Factors affecting career choice: Comparison between students from computer and other disciplines. Retrieved from https://www.researchgate.net/publication/226 183595_Factors_Affecting_Career_Choice_C omparison_Between_Students_from_Comput er_and_Other_Disciplines
- [2] Bandura, A. (1986). Social foundations of thought and action: A social cognitive theory. Englewood Cliffs, New Jersey: Prentice Hall.
- [3] Beggs, J.M., Bantham, J.H., & Taylor, S. (2008). Distinguishing the factors influencing college students' choice of major. Retrieved from http://www.freepatentsonline.com/article/Coll ege-Student-Journal/179348418.html
- [4] Bern, G. S., Capra, C. M., Moore, S., & Noussair, C. (2010). Neural mechanism of the influences of popularity on adolescent ratings of music Neuroimage. Retrieved from https://www.researchgate.net/publication/380 57646_Neural_Mechanisms_of_the_Influenc e_of_Popularity_on_Adolescent_Ratings_of_ Music
- [5] Borchert, M. (2002). Career Choice Factors of High School Students. Retrieved from http://www2.uwstout.edu/content/lib/thesis/2 002/2002borchertm.pdf
- [6] Braza, M. R. S., & Guillo, R. M. Jr. (2015). Socio- Demographic Characteristics and Career Choice of Private Secondary School Students. Retrieved from http://www.apjmr.com/wpcontent/uploads/2015/11/APJMR-2015-3.4.4.12.pdf
- [7] Bronstein, P., & Farnsworth, L. (1998). Gender differences in faculty experiences of interpersonal climate and processes for advancement. Research in Higher Education.

39.

https://doi.org/10.1023/A:1018701722855

- [8] Burns, A., & Darling, N. (2002). Peer Pressure is not peer influence. Retrieved from
- [9] https://ucolibinstruction.files.wordpress.com/ 2010/10/ed-article-4.pdf
- [10] Davey, H. (1993). The Occupational Aspirations and Expectations of Senior High School Students. Guidance andCounselling. 8, 20-19.
- [11] Eremie, M. D. (2015). Comparative Analysis of Factors Influencing Career Choices among Senior Secondary School Students in Rivers State, Nigeria. Retrieved from https://www.researchgate.net/publication/275 034937_Comparative_Analysis_of_Factors_I nfluencing_Career_Choices_among_Senior_ Secondary_School_Students_in_Rivers_State _Nigeria
- [12] Eysenck, H. J., & Eysenck, M. W. (1985). Personality and Individual Differences: A Natural Science Approach. New York: Plenum Press.
- [13] Felsman, D. E., & Blustein, D. L. (1999) The role of peer relatedness in late adolescent career development. Journal of Vocational Behavior. 54 (2), 279–295. https://doi.org/10.1006/jvbe.1998.1664
- [14] Fizer, D. (2013). Factors Affecting Career Choices of College Students Enrolled in Agriculture. Retrieved from https://www.utm.edu/departments/msanr/_pdf s/fizer_research_project_final.pdf
- [15] Garcia, J. E., Feliciano, L. M. L., Manalo, S. C., Custodio, J. E. G., Serito, S. M. M., & Garing, A. (2017). Career Aspirations of Stem Students of University of Batangas Towards Stem Careers. Retrieved from http://www.dlsu.edu.ph/conferences/dlsuresearch-congressproceedings/2017/LLI/LLI-II-035.pdf
- [16] Greenwood, A.M. (1999). Gender and jobs: Sex segregation of occupations in the world. Journal of International Labour Review. 138 (3), 341-343.
- [17] Ghuangpeng, S. (2011). Factors Influencing Career Decision-Making: A Comparative

Study of Thai and Australian Tourism and Hospitality Students. Retrieved from https://pdfs.semanticscholar.org/fd27/a26a46 4983a629d629a3a7ad3e38ddc3b2b2.pdf?_ga =2.4732275.133211038.1608100219-1037969047.1608100219

- [18] Holland, J. L. (1973). Making Vocational Choices: A Theory of Careers. Englewood Cliffs, New Jersey: Prentice Hall
- [19] Humburg, M. (2012). The Effect of the Big Five Personality Traits on College Major Choice: Evidence from a Dutch longitudinal youth cohort study. Retrieved from http://www.sole-jole.org/13190.pdf
- [20] Jahoda, M. (1958). Current Concepts of Positive Mental Health. Retrieved from https://psychedout.wikispaces.com/file/view/c urrentconceptsmentalhealth.Jahoda1958%29./ 240720127/currentconceptsmentalhealth.Jaho da1958%29.pdf
- [21] Japitan, J. O., Camangyan, G.E. D., Rodrigo, J.B. L., Paez, J.T. C., Remeticado, J. T., & Bacasiras, E. D. (2015). Factors Affecting Senior High School Track Preferences of Grade 9 Students of Don Bosco Technology Center, Inc. Academic Year 2014- 2015: A Basis for Career Guidance Program. Retrieved from https://qdoc.tips/factorsaffecting-senior-high-school-trackpreferences-of-grade-9-students-of-donbosco-technology-center-inc-academic-year-2014-2015-a-basis-for-career-guidanceprogram-pdf-free.html?cv=1
- [22] Kim, M. (2011). The relationship between thinking style differences and career choices for high-achieving students. Roeper Review, 33(4), 252-262.
- [23] Laguador, J. M. (2014). Examination of Influence and Intention towards Lyceum of the Philippines University and Career Choice of General Engineering Students. Retrieved from http://research.lpubatangas.edu.ph/wpcontent/uploads/2014/10/IJMS-Examinationof-Influence-and-Intention.pdf
- [24] Looney, C. A., & Akbulut, A. Y. (2007). Combating the IS enrolment crisis: The role of effective teachers in introductory IS courses. Retrieved from

https://www.researchgate.net/publication/236 877157_Combating_the_IS_Enrollment_Crisi s_The_Role_of_Effective_Teachers_in_Intro ductory_IS_Courses

- [25] McGlynn, A.P. (2007). Achieving the Dream What is it, and What's new? The Hispanic Outlook in Higher Education. 18 (4), 44-45.
- [26] Obiunu, J. J., & Ebunu, O. R. (2013). Factors affecting career development of senior secondary school students in Ethiope east local government area, Delta state, Nigeria. Retrieved from http://www.interesjournals.org/fullarticles/factors-affecting-career-developmentof-senior-secondary-school-students-inethiope-east-local-government-area-deltastate-nigeria.pdf?view=inline
- [27] Official Gazette. (2013, September). Implementing Rules and Regulations (IRR) of Republic Act (R.A.) No. 10533 OtherwiseKnown As The Enhanced Basic Education Act of 2013. Retrieved from https://www.officialgazette.gov.ph/downloads /2013/09sep/20130904-IRR-RA-10533-BSA.pdf
- [28] Okobiah, O.C., & Okorodudu, R.I. (2004).Issues, Concepts, Theories and Techniques of Guidance and Counselling. Benin City: Ethiope Publishing.
- [29] Pafili, E., & Mylonakis, J. (2011). Occupation Structure and Career Choice vs Education Development and Training Level: A Presentation of Theoretical Approaches. Retrieved from http://www.ccsenet.org/journal/index.php/ies/ article/view/12876/9025
- [30] Pascual, N.T. (n.d.). Factors Affecting High School Students' Career Preference: A Basis for Career Planning Program. Retrieved January 29, 2018. http://www.urs.edu.ph/wpcontent/uploads/2016/06/2261-4881-1-PB.pdf
- [31] Robertson, I.T. (1993). Personality assessment and personnel selection. European Review of Applied Psychology, 43, 187–194.
- [32] Rowland, K. D. (2004). Career Decision-Making Skills of High School Students in The Bahamas. Retrieved from

http://journals.sagepub.com/doi/abs/10.1177/089484530403100101

- [33] Salvador, J. (2009). MBA Cook Book. Retrieved from .http://home.corncast.net/inaddemeco/crime/hirschi.ht ml.
- [34] Saysay, K. (2011). A qualitative study on Pilipino Americans students relative to their high school success and career choices. Retrieved from https://search.proquest.com/docview/8843405 69/fulltextPDF/C4776C6CC9C24E72PQ
- [35] Sebald, H. (1989). Adolescent peer orientation: Changes in the support system during the past three decades. Adolescence. Retrieved from http://cultureandyouth.org/peers/researchpeers/adolescent-peer-orientation/
- [36] Smart, J. (1985). Holland environment as reinforcement systems. Research in Higher Education, 23, 279-292.
- [37] Soane, E., & Nicholson, N. (2008). Individual differences and decision making. Oxford: Oxford University Press.
- [38] Thao, N. X. (2009). Examining family and community influences on the attitudes to education and career aspirations of Hmong/Mong high school students. Retrieved from https://search.proquest.com/docview/3049553 86/B7B395F41E0B41E0PQ
- [39] Watt, H. M. G. (2006). The role of motivation in gendered educational and occupational trajectories related to maths. Retrieved from Educational Research & Evaluation: http://users.monash.edu.au/~hwatt/articles/W att_ERE2006.pdf
- [40] Wildman, M.L., & Torres, R.M. (2002).Factors influencing choice of major in agriculture. NACTA Journal. 46(3), 4.
- [41] Woolnough, B. E., Guo, Y., Leite, M. S., De Almeida, M. J., Ryu, T., Wang, Z., & Young, D. (1997). Factors Affecting Student Choice of Career in Science and Engineering: parallel studies in Australia, Canada, China, England, Japan and Portugal. Retrieved from https://www.researchgate.net/publication/248 981322_Factors_Affecting_Student_Choice_

of_Career_in_Science_and_Engineering_para llel_studies_in_Australia_Canada_China_Eng land_Japan_and_Portugal

[42] Zhang, W. (2007). Why IS: Understanding undergraduate students' intentions to choose an Information Systems major. J of Information Systems Education, 18(4), 447-458.