# Learning Styles of An-Najah National University Students in Learning English as a Foreign Language أنماط تعلَّم اللغة الانجليزية لدى طلبة جامعة النجاح الوطنية

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#### Abstract

This study sought to identify the learning styles used by An-Najah National University students in their learning of English as a foreign language. To this end, the study raised several questions: What are the learning styles used by An-Najah National University students in their learning of English? Are there any statistically significant differences at  $\alpha = 0.05$  in learning styles which may be attributed to variables of gender, major, average, place of living, computer use and academic level? The data were collected from a randomly chosen sample of 120 male and female students or 37.8% of total population of the study of 320 male and females students. A 24-item questionnaire was used for the purpose of data collection. For data analysis, the researchers used t-test and One-Way Analysis of Variance. It was found that there were no statistically significant differences at 0.05 in the learning styles which might be attributed to gender. However, it was found that there were statistically significant differences at  $\alpha = 0.05$  in learning styles among students due to the use of the computer. In the light of findings of the study, the researchers recommended a diversity in the styles used in teaching English, such as changing the seating of students in classes, introduction of creative activities and the use of audio-visual aids, which suit learning styles used by students in their learning of English. Further, the researchers recommended the introduction of computer as a compulsory course in Department of English and Teaching Methods Department given its effective role in making students depend on themselves to improve their proficiency in the language. The researchers also suggest that a study be conducted at other universities to identify the learning styles used by students in the learning of English and the relationship between these styles and student's personality.

#### ملخص

يستخدم الدار سون في المدارس والجامعات أنماط وعادات تعلّم مختلفة في سعيهم للتحصيل. إن التعرف على السمات الشخصية وأنماط التعلم هذه قد تساعد في إلقاء الضوء على مواطن القوة والضعف لدى هؤلاء الدارسين، وبالتالي تجنب المواقف أو الأوضاع التي تزيد من مستوى الإجهاد لديهم، وبالتالي تقديم النصبح والإرشاد لهم لكي يستغلوا جميع إمكانياتهم بعد تخرجهم على خلفية ذلك، تأتى هذه الدر إسة للتعرف وتحديد أنماط وعادات التعلم لدى طلبة قسمي اللغة الإنجليزية وأساليب التدريس في جامعة النجاح الوطنية. ولتحقيق ذلك، طرح الباحثان عدد من الأسئلة منها: ما هي أنماط التعلم التي يوظُّفها طلبة القسمين المذكورين في تعلمهم للغة الإنجليزية؟ هل توجد فروق ذات دلالة إحصائية على مستوى 0.05 في أنماط وعادات التعلم والتي تُعزي إلى متغير ات الجنس، التخصص، المعدل، مكان السكن واستخدام الحاسوب ومستوى الطلبة الأكاديمي؟ تكون مجتمع الدراسة من ٣٢٠ طالب وطالبة من القسمين وتم اختيار عينة عشوائية بلغت ١٢٠ طالباً وطالبة أو ٢٧.٨% من مجتمع الدر اسة. قام الباحثان بتطبيق استبانة مكونة من ٢٩ فقرة على أشخاص الدراسة للتعرف على أنماط وعادات التعلم لديهم. بعد جمع البيانات، قام الباحثان باستخدام اختبار ت وتحليل التباين الأحادي لتحليل نتائج الدراسة. أظهرت نتائج الدراسة عدم وجود فروق ذات دلالة في أنماط التعلم لدى الطلبة من الجنسين ولكن أظهرت الدراسة وجود فروق ذات دلالة في أنماط التعلم لدى الطلبة والتي يمكن أن تعزى إلى استخدام الحاسوب. وفي ضوء نتائج الدراسة، يوصى الباحثان بتنويع أساليب التدريس وتغبير أماكن الجلوس وإستعمال وسائل تعليمية وتقنيات تربوية مختلفة وجعل مساق الحاسوب مساقاً إجبارياً لطلبة قسم اللغة الإنجليزية وأساليب التدريس لدوره الفاعل في اعتماد الطلاب على أنفسهم. كما يوصبي الباحثان إجراء در اسات في الجامعات لمعرفة العلاقة بين السمات الشخصية وأنماط التعلم التي يستخدمها الطلبة في تعلمهم للغة الإنجليزية وأثر هذه الأنماط على الصحة النفسية عندما ينخرط هؤلاء الطلبة في سوق العمل.

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## Introduction and theoretical background

The 21<sup>st</sup> century student is exposed to a tremendous flow of information which is often difficult for him/her to cope with. Today's student has many available resources which he/she can tap to learn languages and other disciplines. These resources include the tape recorder, language labs, videotape and the Internet, TV and radio. If the student does not change his/her learning style of all disciplines and language learning in particular, then he/she may find himself or herself left without the necessary skills. Therefore, it is necessary for the 21<sup>st</sup> century student to make active use of technology to improve his/her language performance. He/she must go beyond what he/she is exposed to in class by his/her teacher by depending more on himself in learning, practising and acquiring of language skills (Aqel, 2000).

Today's university student will face many challenges in the future, simply because he/she has been trained for a time different from his/her and for tasks he has never expected. The learner of today and tomorrow does not need to memorize a huge amount of information. Rather, he/she is in need of learning how to find the information, how to use it, how to analyze it and express it in his/her own language through immediate feedback during the learning process (www.khayma.com, 2003).

The classroom will remain a place for learning. However, the modern attitudes towards learning call for change in the commonly used styles in classes. One teaching strategy is to change the classroom physical environment which includes changing the students' seating by making a U shape circle, a full circle, a square shape, and small groups according to activities and situations. The introduction of technological aids to the classroom will change a lot of details. Learning in classroom will include a variety of flexible demonstrations. To enhance his/her concentration and attention, the student needs his/her teachers' help to employ as many of his/her senses as possible. Language learning strategies are considered essential elements and factors for the success of language learners. They function as tools for active, and self-directed involvement which can develop 12 communicative abilities (Oxford and Green, 1992).

Brown (1994) classified language learning strategies into two types: learning strategies and communication strategies. The former refers to message receiving while the latter refers to message sending. Based on these two types of strategies, the researchers believe that the teachers should make a balance between them in the teaching process in a variety of ways, by introducing role playing and dramatization to suit the students' different learning styles.

Meyers and Jones (1993) as cited in Mathews (2002), maintained that "All teachers know that students do not learn by just listening, taking notes, and studying for long hours; students learn when they analyze, examine, discuss, and apply information...". Silberman (1998), as cited also in Mathews (2002), emphasized the role of debating and discussion in learning. He argued: "What I hear, I forget. What I hear, see and ask questions about or discuss with someone else, I begin to understand. What I hear, see, discuss and do, I acquire knowledge and skills. What I teach to another, I master".

Research shows that passive involvement generally leads to limited retention of knowledge by student as indicated by Dale (cited in Mckeachie, 1995) who indicated that after two weeks, we tend to remember 10% of what we read, 20% of what we hear, 30% of what we see, 50% of what we see and hear, 70% of what we say, 90% of what we say and do, and 100% by hearing, seeing, doing and smelling, feeling and tasting.

According to Mariani (1996), the most important thing in the teacher's mission is what change one witnesses in people and what people can do to render change to help people discover their own ways of learning. He added that all students in class would respond to a learning task in very different ways and that the employment of inductive questions to illustrate a point in grammar, for example, will be dealt with differently from one student to another.

Skehan (1994) maintained that the learning styles students use are different given individual differences which impact learning such as age,

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attitudes, intelligence, choice of audio-visual aids, motivation and social factors.

Katan (1994) believed that it is possible to get information about students' learning styles and forms through formal ways such as exams, questionnaires, interviews and standardized surveys, or through nonformal ways such as observation of students recording or video recording.

In an article on language learning styles which appeared in http: llestfis, edu/parents/styles, (Martin, 2003), it was found that some students had faced language difficulties with big success but with little efforts. In contrast, other students faced these difficulties with a little success and enjoyment. The article also showed that each learner had his/her best way of learning and was affected by his/her culture, educational background and personality. On the other hand, Haynes (2001), Martin (2004), and Shoebottom (2003) maintained that there are many learning styles and habits used and practised by different learners:

- 1. Aural learner's style. The learner gets involved in a communication activity. He/she listens to others and interacts with them by talking, discussing and debating.
- 2. Visual learner's style. The learner visualizes words, pictures, cards, maps, paintings and texts.
- 3. Analytic learner's style. The learner feels comfortable using language tasks focusing on language mistakes, structures, and uncontrolled (free) conversations. He does not focus on the overall picture but on parts and details.
- 4. Global learner's style. The learner focuses on the overall picture and disregards details of pictures and parts. He means to focus more on conveying message than on language mistakes, group activities, and games.
- 5. Physical learner's style. The learner touches things and focuses on movement.

- 6. Solitary learner's style. The learner focuses on self-learning through his/her own abilities, needs and interests.
- 7. Social learner's style. The learner focuses on learning through interaction with students and his/her teacher.

Many learners know and discover their own learning styles. As the Chinese saying goes, "I hear, I forget; I see, I remember; I practice and work, I understand." One Chinese poem describes types of learning styles as follows: "Go to people; live with them; begin from what they know; build on what they know; be a distinguished leader" (Martin, 2004, p.6).

When we finish a certain task and complete work, people will take note that we have completed our task ourselves (Willing, 1985; as cited in Skehan, 1994).

Kolb (1984) cited two ways which students used when dealing with learning situations. In one, the learner looked at the educational material (content) through his/her senses, feeling and thinking. In the other, the learner dealt/interacted with the educational content through active practice and observation.

Heffernan (1999) found that many studies on language learning styles differed in their applications and benefit, according to motivation and achievement, language learning level, years of language learning, methods of teaching, difficulty of content, students' background and sex. He added that successful language learners employ different language learning styles. And the teacher can help in expanding learning styles via teaching strategies which may help weak students in choosing the right and appropriate learning styles for different educational tasks.

## **Problem of the study**

Despite the variety and plethora of academic courses the university student takes in English, and the strenuous efforts universities and teachers devote to improve students' language skills, the students' language performance, unfortunately, has been frustrating. This could be attributed to the learning styles and habits used by students in studying

English. Moreover, in spite of the significance of the subject, there is a dearth of studies which have investigated the learning styles and habits used by university students in their learning of English.

#### **Objectives of the study**

This study aims to identify the common learning styles employed by An-Najah National University's English and teaching methods majors in their learning of English. It also aims to find out whether the learning styles, employed in learning English, differ at  $\alpha = 0.05$  due to variables of sex, major, student's GPA, place of residence, computer use and student's college.

#### **Research questions**

This study sought to answer the following questions:

- 1. What styles of learning are used by An-Najah University students in their learning of English as a foreign language?
- 2. Are there any significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to gender?
- 3. Are there any significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to major?
- 4. Are there any significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to the student's average?
- 5. Are there any significance differences at  $\alpha = 0.5$  in the styles of learning used by An-Najah University students due to the computer use?
- 6. Are there any significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to the academic level?

#### Significance of the study

The researchers believe that this study may be significant to supervisors, teachers and students, and possibly their parents who may be involved in teaching and learning of English. It is hoped that this study will contribute to the identification of students' areas of weakness and strength and learning how to deal with the former and enhance the latter. It is expected that the findings may help the teacher of English to create activities, educational aids, and situations which suit students' learning /teaching styles of English. It may also help curriculum designers to produce academic materials that are in harmony with students' learning styles. Also knowledge of the personality and learning styles of students may be helpful in allowing individuals to have insight into their strengths and vulnerabilities and thereby avoid situations in which they become stressed. In addition, such knowledge could help career advisors and others to provide counseling for teachers so that they can achieve their full potential.

#### **Definition of terms**

According to Tarone (1981), learning styles are "an attempt to develop linguistic and socio-linguistic competence in the target language." In this study, learning styles mean techniques, behaviors, actions, habits and steps employed by learners to improve and develop their different language skills: speaking, listening, reading, and writing.

Average is defined in this study as the sum total of a student's grades.

## **Teaching strategies**

For the purpose of this study, teaching strategies refer to the plans and skills employed in the teaching process. These include teaching aids, methods, diversity of materials, computer use, change of physical environment in class, and introduction of creative activities.

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## Limitations of the study

This study was limited by:

- 1. Students drawn from departments of English and Teaching Methods at An-Najah National University.
- 2. Second semester 2003/2004.

## **Review of related literature**

Haynes (2001) pointed that students' learning styles have to be taken into consideration when teaching English. She added that learners of the language are used to certain learning styles in their mother tongue and these styles are transferred and used when they learn a second or a foreign language. Commenting on types of learners, Mariani (1996) said, "It is very difficult to change student's way of learning if he/she is, for example, an analytic learner who is meticulous as he cares about accuracy and form. It becomes difficult for him/her to get involved in roles, debates and educational games. However, if he/she is a global learner, learning of language for him/her means focusing on meaning and fluency, use of language instead of focusing on rules. He added that group work or cooperative learning (3-5 learners) can help students to adapt their learning styles to be in harmony with the requirements of the learning tasks.

Several studies (Oxford 1993; O'Malley and Chamot, 1990) found that students/learners of languages used different learning techniques such as repetition, imitation, linking, memorization, development of positive attitude towards language and application of information.

Stoller (1990) pointed out that the use of audio-visual aids has become very important and that the world is moving towards visual aids such as films, and pictures as flexible instruments to learn another language. Salman (1986) argued that educational aids could alleviate the problem of learning and encourage/promote interaction between the learner and the educational situation. In the same context, Lee and Copper (1970) maintained that educational aids might be renewable

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resources that help in drawing attention and in improving understanding of language.

Castro (1994) found memorization strategies, as a learning style, very common among some Asian students. On the other hand, according to Ninnes (1996), learners of same culture bring with them their own informal systems, habits and styles to learning situation. Russi (1989) also found a significant difference between sensory preference and overall styles used in English language setting.

Some other studies investigated the impact of several variables on learning styles. Hatcher (2000) examined the effect of gender on Japanese students' learning styles. He found that the sex of the students had an effect on the learning style used.

However, Chen (2002), in his study of Taiwanese students, found no effect of the sex variable on their learning styles. In a study on the effect of sex variable on learning English by Vietnamese students, Tarone (1981) found that the female students had more problems in learning English than male students. He also found that female students used more different learning styles to improve their language skills than did female students.

However, in another study to identify language learning styles used by fifth and six grade students in Taiwan, Hsun (2002) found that female students used learning styles more frequently than male students. Pertaining to school average, it was found to be one of the important indicators of final achievement and the ability to find the appropriate order of words in sentences when it came express any idea (Bloom, 1976). He argued that the school average is an effective indicator to predict school achievement. If students' performance or achievement were able to provide successful experiences, particularly with early stages, they would have a positive impact on results of later stages. Russi (1989) found that good learners of English used self-management, such as planning, evaluation and practice, more than weak learners of the language. Chamot and Kupper (1989) also found that weak learners of English were unable to monitor their own performance and evaluate

themselves as opposed to good learners who were able to benefit/make active use of any educational teaching situation.

On the relationship between student's language level and learning style, Mahlobo (1999) found that it was positive while Doering (2002) found that the strong student, in his/her learning of language, used more different language styles in comparison with the weak learner.

Oxford et al (1995) found that a good language learner developed combinations of styles rather than one single style of learning.

Pertaining to major, Osanai (2000) found that science and computer science majors used more learning styles than law and business administration majors. Chamot and Kupper (1989) maintained that the nature of the learning task determines the style to be used in dealing with it. They found that some learning styles were corrected with learning tasks.

On class size, Sabander (1988) found that large classes posed a problem in classroom setting and reduced effectiveness of classroom management. The small number of students in class enhanced their attention and their performance more than large classes. Bloom (1976) found that creating opportunities for small class group work, to help each other, proved to be an effective way to motivate students and correct errors. Bloom also believed that the size of the group is one of the important elements which influences individual differences in language learning. Information presented to a group of 20-70 might be effective with some learners but might not be so with others. Also time allocated for each class does not allow teachers to give large groups their individual attention. Teachers also find it difficult to make observation of their participation. About 20% of students' achievement depends on participation in classroom.

Brown (1994) maintained that good use of exercises and motion pictures in classes allows students to use language skills in a dynamic and effective manner. McCombs (1997) maintained that classes have a group of students of different backgrounds, goals, skills and personal

interests. Therefore, the teacher has to provide his/her students with different learning styles to suit the different school stages.

Bloom (1976) also thinks that learning a written text from first grade to sixth grade may affect school and university learning. According to Bloom, the learner's ability to read an educational material makes it possible for him/her to learn the subject in spite of the quality of education and what happens with the learner in subsequent stages. Sheorey (1999) found that the educational and cultural background would affect learning styles in the future. Ninnes (1996) stressed that cultural components might affect formal learning situations given behavior differences and learners' techniques. The educational, cultural background and educational situation, according to Green and Oxford (1995), had an effect on choice of a learning style by language learners.

Through the researchers' experiences and class observations of how students were learning foreign languages, and in the opinions of some educators, students not only learn through listening and note taking and long hours of study but they also learn when they analyze, discuss, role play and apply their information (Mayers and Jones, 1993; as cited in Mathews, 2002).

## Procedures of the study

#### Population of the study

The population of this study consisted of 320 students from two departments of An-Najah National University: Department of English and Teaching Methods Department. The sample of the study, randomly chosen, comprised of 121 students or 37.8% of the total population. Of these, 86 were females and 35 were males. The two groups were not equal because the two departments have become female-dominated. That is, males have become a minority. The sample was distributed according to six independent variables: Tables 1, 2, 3, 4, and 5 show distribution of sample.

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Gender	Frequency	Percent %
Male	35	28.9
Female	86	71.1
Total	121	100

Table (1): Distribution of sample due to gender

Table (2): Distribution of sample due to major

Major	Frequency	Percent %
English	51	42.1
Methods of English	70	57.9
Total	121	100

Table (3): Distribution of sample due to school average (total sum of student's grades)

Average	Frequency	Percent %
60-69.9	23	19.0
70.79.9	67	55.4
80 and more	31	25.6
Total	121	100

 Table (4):
 Distribution of sample due to place

Place	Frequency	Percent %
City	48	39.7
Village	73	60.3
Total	121	100

Computer using	Frequency	Percent %
Yes	81	66.9
No	40	33.1
Total	121	100

Table (5): Distribution of sample due to computer use

Table (6): Sample of distribution due to academic level

Academic level	Frequency	Percent %
$2^{nd}$	27	22.3
3 <sup>rd</sup>	41	33.9
4 <sup>th</sup>	53	43.8
Total	121	100

## Instrument of the study

A 24-item questionnaire on learning styles was used. A learning style inventory, the questionnaire was not developed specifically for language learning purpose. It was adopted from the following web site: www.clat.psu.edu/lsi, 2004). The questionnaire was checked by three experts in the field of statistics and education to find out the degree of its suitability to the study. The referees suggested a change in the scale from a three-point scale to a five-point scale: strongly agree, agree, strongly disagree, disagree, neutral.

# **Reliability of the instrument**

The reliability of the study was calculated by using the Cronbach Alpha formula. Accordingly, the reliability coefficient was 97.5% which was acceptable for the purpose of the study.

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## Statistical analysis

The data, collected by the researchers, were analyzed by using different techniques to answer the questions of the study. These techniques included means, standard deviations, percentages, Independent T-Test and One-way ANOVA. Cronbach Alpha formula was used to determine the reliability coefficient of the questionnaire.

To analyze the findings, the researchers used the following ranks for analysis:

(80% and more)	very high degree
(70 - 79.9 %)	high
(60 - 69.9 %)	moderate
(50 - 59.9 %)	low
(less than 50 %)	very low

## **Results and discussion**

To answer the first question, "What styles of learning are used by An-Najah University students in their learning of English as a foreign language?", the researchers used the means, standard deviations, percentages and ranks for each item in the questionnaire.

	Item	Item no. in questionnaire	Mean	S.D	%
1.	Can remember more about a subject through the lecture method with information, explanations and discussions.	3	4.40	0.76	88.0
2.	Prefer information to be presented through the use of visual aids.	9	4.36	0.85	87.2
3.	Like to write things down or to take notes for visual review	2	4.05	0.89	81.0
4.	Prefer to make posters, physical models, or actual practice and some activities in class.	16	3.98	1.01	79.6
5.	Require explanations or diagrams, graphs, or visual directions.	6	3.93	0.95	78.6
6.	Enjoy working with my hands or making things.	10	3.89	0.95	77.9
7.	Am skillful with and enjoy developing and making graphs and charts.	1	3.76	0.81	75.2
8.	Can tell if sounds match when presented with pairs of sounds.	18	3.76	1.00	75.2
9.	Remember best by writing things down several times.	14	3.74	1.20	74.8

 Table (7): Means, standard deviations, percentages and ranks for questionnaire items, arranged in a descending order

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Item	Item no. in questionnaire	Mean	S.D	%	
10. Can understand and follow directions on maps.	5	3.69	0.84	73.8	
11. Do better at academic subjects by listening to lectures and tapes as opposed to reading a textbook.	22	3.65	0.89	73.0	
12. Play with coins or keys in pockets.	4	3.51	1.10	70.2	
13. Learn to spell better by repeating the words out aloud than by writing them on paper.	13	3.50	1.29	70.0	
14. Can better understand a news article by reading about it in the paper than by listening to the radio.	11	3.44	1.12	68.8	
15. Chew gum, smoke, or take a snack during study.	7	3.39	1.11	67.8	
16. Feel the best way to remember is to picture it in my head.	19	3.38	1.00	67.6	
17. Learn spelling by tracing the letters with my fingers	24	3.37	1.23	67.4	
18. Would rather listen to a good lecture or speech than read about the same material in a textbook.	8	3.29	0.85	65.8	

... continue table (7)

Item	Item no. in questionnaire	Mean	S.D	%
19. Am good at working and solving jigsaw puzzles and mazes.	21	3.25	1.18	65.0
20. Play with objects in hands during learning period.	17	3.15	1.26	63.0
21. Remember more by listening to the news on the radio than reading about it in the newspaper.	23	2.95	1.13	59.9
22. Obtain information on an interesting subject by reading relevant materials	20	2.61	1.16	52.2
23. Feel very comfortable touching others, hugging, handshaking, etc.	12	2.02	1.11	40.4
24. Follow oral directions better than written ones.	15	2.02	1.34	40.4
Total		3.64	0.35	72.8

... continue table (7)

As Table 7 shows, items 2, 3 and 9 received a very high rating. The percentages of responses were 81.0, 87.2 and 88.0 respectively while the mean was more than 4.00. The items, in question, dwelt on student's preference to learn through visual and written means of communication. These largely depend on student's use of his/her senses. A significant difference was found between sensory preference and overall styles used in English language settings (Russi, 1989). Lee and Copper (1970) emphasized the role of teaching/educational aids in renewing knowledge, enhancing attention and assisting in improvement of language understanding. Also Brown (1994) maintained that a good use of

exercises and motion pictures in classes allows the student to employ his/her language skills effectively. In the same context, Wlodowski (1990) pointed out that classroom activities, which include motion pictures, might be a helping factor in students' learning of language. In this case, learners can be considered "visual learners".

Items 12, 15, 20, 23, however, received a very low rating. The percentages of responses were 1.34; 1.11; 1.16 and 1.13 respectively. The items were all about the student's interest during language class. It was found that students wanted to learn the language and never attempted to play during class since they had chosen the majors: English language and Literature and English Teaching Methods.

To answer the second question of the study, "Are there any significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to gender?", the researchers used the independent t- test to analyze the data from the questionnaire.

**Table (8):** T-Test results on differences in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to gender

Gender	Ν	Mean	SD	D.F	Т	Sig.*
Male	35	3.52	0.32	119	1.120	0.265
Female	86	3.44	0.36			

The results of Table 8 show that the computed t-test value was 1.120. This means that there were no significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to the gender. This result is contrary to that of Hsun (2002); Hatcher (2000) and Tarone (1981). In their studies, Hsun and Hatcher found that female students varied and used more learning styles than their male counterparts. Tarone found that female students had more problems in learning English. In the researchers' opinion, male and female students have problems in learning

English as a foreign language because it is one of the basic subjects in high school exams.

To answer the third question, "Are there any significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to major?", the researchers used independent t-test to analyze the data from the questionnaire.

**Table (9):** T-test results on differences in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to major

Major	Ν	Mean	SD	D.F	Т	Sig.*
English	51	3.47	0.30	119	0.111	0.912
Methods of Eng.	70	3.46	0.38			

\* Significant at  $\alpha = 0.05$ ; critical at 1.96.

Table 9 shows that the computed t-test value was 0.111. This means that there were no significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to major. This result supports Chamot and Kupper's findings (1989) as well as Osanai's findings (2000) that students in some majors would use types of learning styles than students in other majors. The nature of the learning task determines the manner of dealing with it. Researchers of this study attribute difference in number of style types to the fact that the English majors and English Teaching Methods majors had non-scientific background, and accordingly, they would focus on rote learning and depend on memorization of information including context in English.

Pertaining to the fourth question, "Are there any significant differences  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to the student's average?", the researchers used One-Way ANOVA Test to analyze the data of the questionnaire.

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Average	Frequency	Mean	S.D.
60-69.9	23	3.44	0.29
70-79.9	67	3.46	0.37
80 and more	31	3.47	0.35
Total	121	3.46	0.35

Table (10): Frequencies, means and standard deviations for the average

**Table (11):** One-Way ANOVA Test results for differences in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to average

S.O.V.	Sum of squares	D.F	Mean square	F	Sig.*
Between groups	0.015	2	0.007	0.062	0.940
Within groups	14.728	118	0.125		
Total	14.744	120			

\* Significant at  $\alpha$  =0.05; critical at 3.07.

Table 11 shows that the computed F-value was 0.062. This means that there were no significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to the average.

As Table 11 shows, no statistically significant differences were found in the study sample which might be attributed to average of English at school. This result, however, is not in line with Chamot and Kupper's findings (1989) that the low-average students were unable to monitor their performance as opposed to high level students. Also this result does not agree with Deoring (2002) who found that good students, in their learning of English, used a variety of patterns as opposed to weak students. This result, in addition, does not agree with Bloom's finding (1976) that the school was an effective factor to predict school

achievement. Heffernan (1999) maintained that successful students would use different learning styles. This result, contrary to findings of other studies, could be attributed to the university student's serious interest in knowledge rather than in average.

To answer the fifth question "Are there any significant differences  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to computer use?", The researchers used the independent T-Test to analyze the data of the questionnaire.

**Table (13):** T-Test results on differences in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to computer use

Computer use	Ν	Mean	S.D.	D.F.	Т	Sig*
Yes	81	3.51	0.36	119	2.007	0.048
No	40	3.38	0.32			

\* Significant at  $\alpha = 0.05$  critical at 1.96.

Table 13 shows that the computed T-Test value was 2.007. This means that there were significant differences at  $\alpha = 0.05$  in the styles of learning used by An-Najah National University students in their learning of English as a foreign language due to computer use: playing computer games, doing homework, surfing the web for fun, doing research on the web, word processing. The differences were in favor of the computer users.

As Table 13 shows, there were statistically significant differences in favor of students who had used the computer. This result agrees with a study by Osanai (2000) who found that science and computer science students used more learning styles than law students. The researchers think that the use of the computer requires knowledge of English, and students get exposed to new terms and vocabulary and that knowledge of computer requires a good command of English. Therefore, these students have better control of language skills.

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Academic level	Frequency	Mean	S.D.
$2^{nd}$	27	3.56	0.24
3 <sup>rd</sup>	41	3.35	0.38
4 <sup>th</sup>	53	3.50	0.36
Total	121	4.46	0.35

**Table (14):** Frequencies, means & standard deviations for the academic level

As Table 14 clearly shows, there were differences in favor of sophomore students. The means amounted to 3.56. This is attributed to the university's introduction of computer courses as compulsory requirements to Teaching Methods' majors. There are also internet cafes and centers for computer learning. In addition, more and more teachers ask students to write and type their reports in English, thus improving their English in general.

To answer the sixth question, "Are there any significant differences  $\alpha = 0.05$  in the styles of learning used by An-Najah University students due to the academic level?", the researchers used One-Way ANOVA Test to analyze the questionnaire data.

**Table (15):** One-Way ANOVA Test results on differences in the styles of learning used by An-Najah University students in their learning of English as a foreign language due to the academic level

S.O.V.	Sum of squares	D.F.	Means square	F	Sig.*
Between group	0.909	2	0.454	3.3874	0.023*
Within groups	13.835	118	0.117		
Total	14.744	120			

\* Significant at  $\alpha = 0.05$ ; critical at 3.07

Table 15 shows that the computed F-value was 3.3874. This means that there was a significant difference at  $\alpha = 0.05$  in the styles of learning

used by An-Najah University students in their learning of English as a foreign language due to the academic level variable. To know for whom the differences were, Scheffe Post Hoc Test was used.

Academic level	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
2 <sup>nd</sup>		0.2131*	0.053
3 <sup>rd</sup>			-0.1600
4 <sup>th</sup>			

 Table (16):
 Scheffe Post Hoc test results

\* Significant at  $\alpha = 0.05$ 

Table 16 shows that the difference was in favor of  $2^{nd}$  over  $3^{rd}$  year students.

#### Conclusion

The researchers believe that teachers need to focus on varying learning styles by creating a flexible, varied, encouraging, safe and enjoyable classroom environment built on diversifying methods of teaching and educational aids. They have also to vary the students' seating arrangement, depending on nature of daily activities, to allow the use of dialog and discussion. They may also change place of class, host another teacher and benefit from technology resources available for language learning and take a "holiday" from textbook. In using these techniques and strategies, teachers will break classroom routine and will implant confidence in the learners.

It should be maintained that the more teaching styles the teacher of English introduces in classrooms, to suit students' different learning styles, and asks students to use, the more achievement students will make, thus helping the teacher in preparation of daily lesson plans and educational materials, methods, aids and activities which suit students' learning styles. There remains no single teaching method or educational material or way or activity which works well for all students inside the given classroom students' different levels, interests and backgrounds.

# Recommendations

In the light of the findings of the study, the researchers would like to suggest the following recommendations:

- 1. Conducting studies on the effect of teaching strategies on learning styles.
- 2. Introducing more educational situations in classes to enhance learner's participation and discussion given students' lack of attention.
- 3. Creating a flexible, enjoyable, convenient and comfortable classroom environment. To this end, the teacher should encourage active learning, cooperative learning and self-learning, thus diversifying ways of improving students' language skills.
- 4. Hosting other teachers in classes, thus introducing a change from classroom routine.
- 5. Changing classroom site and physical seating of students to make language learning close to life-like situations.
- 6. Using different activities, in classes, to help learners love the language.
- 7. Creating a conducive environment for debating and discussion which allow more practice of language skills.
- 8. Employing various means and visual aids to make it possible for learners to get the information.
- 9. Choosing materials (books and references) which suit the students' different learning styles.
- 10. Introducing a computer skills course as a compulsory requirement for all university students.
- 11. Conducting a similar study in other universities to compare the different learning styles used by university students.
- 12. Including more variables, in studies, such as qualification of university teacher and country from which degree was received.
- 13. Conducting a study on the impact of class size on teaching and learning styles.

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