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The Interaction Between Learning Styles, Ethics Education, and Ethical Climate

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The Interaction between Learning Styles, Ethics Education, and Ethical Climate

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The Interaction between Learning Styles, Ethics Education, and Ethical Climate

ABSTRACT

Purpose – The purpose of this paper is to investigate how learning styles and learning spaces interact to stimulate deep learning. Specifically we investigated the interaction of learning styles with ethics education and the ethical climate to influence the likelihood of engaging in ethical behavior.

Design/methodology/approach – Data was collected from two groups of students—those who had completed a business ethics course and those who had not completed a business ethics course. The sample consisted of 180 undergraduate students at a private university in the United States. Data was analyzed using regression analysis to test the hypotheses. A scenario-based measure of the likelihood of engaging in ethical behavior was developed and implemented in the study.

Findings – Both ethics education and ethical climate had a direct impact on a student’s likelihood of engaging in ethical behavior. The interaction between learning style and business ethics class significantly impacted experiential learners’ likelihood of engaging in ethical behaviors. Results for non-experiential learners as relates to ethical climate were non-significant, but ad hoc analysis indicates ethical climate significantly impacted likelihood to engage in ethical behaviors.

Practical Implications – The findings have practical implications for how universities should utilize learning spaces both inside and outside the classroom to be stimulate deep learning and be more effective in sensitizing students to ethical behavior.

Originality/Value – Our results support using formal and informal learning spaces to stimulate deep learning as it relates to ethics education in universities.
Keywords – learning styles, deep learning, ethics education, ethical climate

Paper Type – Research paper
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Introduction

As business educators, one of our challenges is to develop more ethical managers. The solution to this challenge has been at most universities to require students to complete a course in business ethics (Givens, 2004). While ethics education in the form of a business ethics course may heighten a student’s sensitivity to particular ethical situations, ethics education may in fact fall short of its main objective—creating ethical managers (Smith and Oakley, 1996). In fact, business schools are notorious for high levels of cheating (Bowers, 1964; McCabe 1997; McCabe, Butterfield & Trevino, 2006) and may actually be creating an ethical climate where observed cheating fosters de-sensitivity to ethical situations and encourages unethical behavior in order to get ahead (McCabe and Trevino, 1995).

Although explanations of unethical behavior have long been attributed to individual factors, previous research has shown that contextual factors can interact with individual factors in influencing moral reasoning and important organizational outcomes (e.g. Adam, Tashchian and Shore, 2001; Dickson, Smith, Grojean and Ehrhard, 2001; Weber, 1990). Researchers (Adam et al. 2001; Dickson et al., 2001; Victor and Cullen, 1988) note that the perceived consequences of behavior, the perceived conformity to group expectations, and the individuals’ economic dependence on the employing organization can exert powerful influence on individual decisions as well as business unit readiness, success and cohesiveness. Following this logic, we expect that in an educational setting, students’ ethical behavior can be shaped by individual factors as well as contextual factors such as the ethical climate of the university and ethics education in influencing their moral reasoning and individual behavior.

Traditionally, researchers and educators argue that teaching styles should fit and reflect students’ learning preferences and needs (Kolb, 1984). However, a drastic different approach
recently proposed by Kolb and Kolb (2009) suggests that in order to activate deep learning, the student must engage in types of learning which are less frequently used and, in a sense, get out of their comfort zone. For example, while experiential learners are adept at using tacit knowledge, they may benefit more from business ethics class that facilitates reflective learning and thereby helps them reframe past events (Lawter, Guo, Rua, 2011). However, to our knowledge, little research is done on investigating the approach developed by Kolb and Kolb (2009).

Puzzled by these different perspectives, in the present study, we investigate how students’ learning styles, an individual level variable, when interacting with ethics education and the ethical climate of the university, two context level variables, influence the likelihood of engaging in ethical behavior. Our primary assertion is that both the classroom and the general ethical climate of a university act as learning spaces for students. Thus we posit that both the formal learning space of the business ethics classroom and the informal learning space of the ethical climate of the university will influence a student’s likelihood of engaging in ethical behavior.

Deep learning theory (Kolb and Kolb, 2009) suggests that for experiential learners and non-experiential learners deep learning is stimulated in different learning spaces. Following this line of reasoning, we would expect that for experiential learners formal learning spaces where learning occurs primarily through vicarious learning would stimulate deep learning. Similarly, we would expect that for non-experiential learners informal learning spaces where learning occurs primarily through experiential learning would stimulate deep learning.

Based on deep learning theory, we posit that for the experiential learner the formal classroom will have a stronger influence on the likelihood of engaging in ethical behavior, as business ethics class will activate reflective learning and the reframing of experiences gained
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from informal learning spaces. We also predict that for the non-experiential learner the ethical climate will have a stronger influence on the likelihood of engaging in ethical behavior, as the experience of seeing students caught cheating will reinforce vicarious learning from formal learning spaces.

To test these hypotheses we conducted a survey among 180 undergraduate students and the findings of our data analysis provide initial support to our speculations. We found that students who took a business ethics class were more likely to engage in ethical behavior. We also found that students who perceived higher percentages of students caught cheating were more likely to engage in ethical behavior. Additionally we found some support for the interactive effects of learning style and learning spaces. Our study makes three major contributions to theory and practice. First our findings support the theory that deep learning occurs when students engage in learning outside of their preferred learning style. Empirically, we found statistical support for the interaction between experiential learning style and formal learning space. Additionally, ad hoc analysis suggests that further investigation into the interaction between non-experiential learning styles and informal learning space is needed. Lastly, the practical implications for our study is that in sensitizing our students to ethical behaviors, as institutions we need to employ both formal learning spaces and informal learning spaces as important avenues of learning.

Literature Review and Hypothesis Development

Learning Spaces and Its Influence on Learning

Learning spaces are generally defined as places where formal, or informal learning takes place (Marsick & Watkins, 2001; Milne, 2006). More specifically, formal learning takes place in highly structured settings (Marsick & Watkins, 1990) whereas informal learning can take place
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anywhere in an organization in an unstructured manner. Accordingly, different learning spaces at a university can lead to different types of learning: classrooms being highly structured will lead to formal learning (Marsick & Watkins, 1990), while interactions with peers outside the classroom and contextual cues from the overall sense of the university climate lead to informal learning (Marsick & Watkins, 2001; Wenger, 1998).

Bronfenbrenner (1977) described learning/development spaces as a “topologically nested arrangement of structures each contained within the next” (p. 514). Kolb and Kolb (2005) further defined learning spaces within the university setting as a three tiered system of spaces such that the immediate setting such as the classroom or course is the microsystem of the individual, whereas the other concurrent settings in the person’s life such as other courses, dorms, or fraternities serve as the mesosystem, while the overarching institutional patterns and values of the wider culture in an organization would serve as the macrosystem. Accordingly, these three levels of the system (micro, meso or macro) would generate distinct learning opportunities for the learner as each of these levels will present unique experiences. Within the current study two levels of learning spaces are compared—business ethics class as an example of the microsystem, which provides formal learning, and ethical climate of the university as an example of the macrosystem, which provides informal learning.

Business Ethics Class as a Learning Space

Business ethics class acts as a formal learning space where students are sensitized to types of ethical dilemmas in organizations and societies. The main objective of business ethics education is to generate a higher level of moral awareness and moral maturity in our graduates. The expectation is to enable the student to engage their own personal values when they are
confronted with an ethical dilemma once they enter the business world (Lowry, 2003). The format of most business ethics courses involves sensitizing the student to types of ethical dilemmas in organizations by teaching ethics theories as frameworks to evaluate possible outcomes and then having the student practice their newly developed awareness through the extensive use of case-based examples (Gentile, 2010). This traditional approach to teaching business ethics has been criticized for relying on vicarious learning and the lack of transferability from the academic setting to the student’s work experiences after university (McDonald and Donleavy, 1995).

Yet, business ethics class can have a positive impact on student awareness of ethical situations and increase the ability to reframe past experiences. Lawter, Guo, and Rua (2011) found that students believed that a business ethics class was beneficial as it allowed them reframe past experiences and reflect on the ethical nature of past actions. Additionally, students who had also engaged in some form of experiential learning coupled with the business ethics course reported a higher likelihood of acting ethically when confronted with an ethical dilemma. Gentile (2010) also supported the positive effects of business ethics education on students’ ability to engage in ethical behaviors. By coupling vicarious learning activities and experiential learning activities within a formal learning space, Gentile found that students felt more prepared when confronted with an ethical dilemma outside the classroom.

By integrating both experiential and vicarious learning activities, business ethics class acts as a valuable learning space for reflection and reframing of past experiences for students. Therefore, we speculate that business ethics education is successful in students’ heightening sensitivity to ethical situations and encourage them to engage in ethical behavior. As such, we predict that:
Hypothesis 1: Students who take a business ethics class will be more likely to engage in ethical behavior.

Ethical Climate as a Learning Space

Passarelli and Kolb (2011) suggest that learning extends beyond the classroom and involves a socialization process via membership and identity formation because students also learn from others in their community. Situated learning theory (Lave & Wenger, 1991) provides support for the ethical climate as a learning space as it defines learning as a transaction between the person and the social environment, where learning is extended beyond the physical classroom into the process of becoming a member of a community of practice. Students develop experiences and share those experiences within their communities creating a climate based on those shared experiences (Passarelli & Kolb, 2011). Climate is one of the most influential contextual factors that can either facilitate or impede effective teaching and learning that take place in the classroom setting through interpersonal interactions (Marsick and Watkins, 2001). Climate acts as a learning space as “karma in the walls and halls” by informing the learners about how to make sense of what they observe and how to interpret what they experience (Callahan, 1999).

Victor and Cullen (1987) defined ethical climate as “the shared perception of what is ethically correct behavior and how ethical issues should be handled” within an organization (pp.51-52). Research has shown that situational factors, such as presence of codes of ethics, obedience to authority or conformity to the group and shared perceptions of the organization’s policies and practices, can have a strong impact on individual ethical behaviors (Adams et al.,
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2001; Trevino, 1992; Weber, 1990). These previous studies suggest that organizational context has an overriding influence on individual moral decisions made in an organizational context.

In a university setting, cheating has long been noted as one of the most frequently occurring unethical behaviors (McCabe, 2005). McCabe and Trevino (1993) observed that observing peers cheating without consequences can lead others to cheat, as observing this type of unethical behavior in one’s immediate surroundings can be viewed as an acceptable way of behaving and getting ahead within that culture. On the contrary, students who perceive strong disapproval of cheating among their peers, which would signify a culture intolerance of this type of unethical behavior, report consistently lower levels of cheating (McCabe and Bowers, 1996).

Based on the findings of two experiments, Gino, Ayal and Ariely (2009) note that individuals’ unethical behavior depends on the social norms implied by dishonesty of other members. Accordingly, we argue that peer conduct and perceptions of cheating behavior, can contribute to the perceived general ethical climate or the macro-system of the learning space of the university, which will influence students’ likelihood of engaging in academic dishonesty. As such, we hypothesize that ethical climate acts as an informal learning space such that:

_Hypothesis 2a: Students who perceive higher percentages of students cheating at university will be less likely to engage in ethical behavior._

Similarly, in an education setting, empirical findings indicate that in universities, which have honor codes and academic integrity policies that are widely known and accepted by the members of these communities and in which there are clearly stated consequences for not conforming to these standards, students display lower levels of cheating (McCabe and Trevino, 1993). More specifically, the prevalence of cheating and the subsequent consequences will create an ethical climate, which acts as an informal learning space for the student whereby the
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student learns whether unethical behavior is socially acceptable and whether there are consequences for engaging in unethical behavior. In essence, students engage the experiential learning process of ethical behavior within this informal learning space (macro-system) as a member of the university’s ethical climate other than their immediate learning from the microsystem, which is the business ethics courses.

In our view, university policies and practices supporting ethical behaviors (and specifically those which demonstrate an intolerance of academic cheating of all kinds) create an ethical climate and can serve as a macro-system of student learning spaces in the domain of academic integrity. This type of learning space constitutes the immediate ethical climate for students and provides a set of expected ethical behaviors prescribed for all members of these communities within this domain. Therefore we predict:

Hypothesis 2b: Students who perceive higher percentages of students caught cheating at university will be more likely to engage in ethical behavior.

Learning Styles and Learning Spaces

Matching the method of teaching with the learning style of the learner has been shown to have a significant influence on academic success (Kolb, 1984). Experiential learning is described as “the process whereby knowledge is created through the transformation of experience” (Kolb, 1984, p. 41). Vicarious learning, on the other hand, is achieved through observing either first hand or through others accounts with no active involvement in the experience (Bandura, 1977; Gholson and Craig, 2006; Rosenthal and Zimmerman, 1978). Research shows that individuals differ in terms of their preference for employing learning styles due to hereditary equipment, particular life experiences and the demand of the present environment, which generates different
learning styles for different learners (Kolb and Kolb, 2005; 2009). The traditional perspective on learning style is that matching the method of teaching with the learning style of the learner is the best means of positively impacting academic success (Kolb, 1984).

However, there is opposing views to this perspective. Kolb and Kolb (2005) suggests that the different levels of the learning spaces also impact different levels of learning. When it comes to ethics, it is highly possible that these different levels have different perspectives to provide, and then the question becomes whether individuals’ preferences in regards to learning styles impact the way they absorb and use these conflicting and competing teachings they receive from these different learning spaces. Kolb and Kolb (2009) suggest that when the learner is forced to activate types of learning which are less frequently used by the learner, the process of deep learning is stimulated. The implication of this is that learners develop a comfort zone of learning where they become adept at using a particular learning style. As such, experiential learners become adept at using experiences as the basis of their learning, just as non-experiential learners become adept at using vicarious learning as the basis of their learning. In order to stimulate deep learning, students must be forced out of their comfort zones and learning styles, and encouraged to engage in the other parts of the learning cycle which they are less adept at using.

Within the context of teaching business ethics in a university setting, experiential learners are adept at using the ethical climate as an experiential learning space. They experience acting in an unethical manner and the possible consequences of that behavior. However, for the experiential learners, there is enormous value in using vicarious learning in a classroom setting as this method of teaching stimulates and engages abstract thinking and reflection, which supports and activates their deep learning. Therefore, we predict:
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Hypothesis 3: Experiential learners will be more likely to engage in ethical behavior if they have taken a business ethics class.

On the other hand, non-experiential learners are adept at using vicarious learning, which best translates to the traditional classroom experience. In order for concrete experience to be activated and deep learning to be stimulated, non-experiential learners need to observe what they have learned vicariously being enacted within their experiential learning space—the university ethical climate. For the non-experiential learners, observing the enforcement of academic integrity policies in the university ethical climate reinforces the lessons learned from their vicarious learning. Therefore, we predict:

Hypothesis 4: Non-experiential learners will be more likely to engage in ethical behavior if they perceive higher percentages of students caught cheating.

Method

Sample and Procedure

The study was conducted by surveying undergraduate business students at a private university in the United States. Students were asked to complete two surveys at two points in time. The first survey asked students about preferred learning styles, perceptions about ethical climate of the university, whether they had completed a business ethics course, and demographics. The second survey administered two weeks later measured students’ likelihood of engaging in ethical behavior using a scenario-based approach. Surveys were matched based on the subject’s name. The matched survey yielded data from 180 respondents.

Participants were age 18 to 24. Fifty five percent of respondents were female, and eighty four percent identified themselves as Caucasian. Participants represented all business majors
across the university—Business Administration major (31.5%), Marketing (18.8%), Sports Management (13.9%), Finance/Economics (13.8%), and Accounting (15.6%). Approximately 40% had completed a business ethics class.

Measures

Data on learning styles was collected using the VARK, a 16 item scale which was customized for university aged students (Fleming and Mills, 1992; Leite, Svinicki, and Shi, 2010). The VARK consists of four sub-scales each measuring four styles of learning: kinesthetic, aural, visual, read/write. Students were then classified into two groups based on their highest score on the VARK: experiential learners (those with kinesthetic learning style as the highest score) and non-experiential learners (those with either aural, visual, read/write learning styles as the highest score). Ethical climate was captured by asking students what percentage of students at the university cheat and what percentage of students at the university are caught cheating.

Scenario-based surveys are commonly used in the ethics literature to test for likeliness to engage in ethical behavior, allowing for the description of a scenario with response questions which ask the participant how likely they would be to engage in a particular behavior. Each subsequent behavior in the response question escalates the behavior based on decreasing likelihood of engaging in the behavior (Shu, Gino, and Bazerman, 2011; Zhong, Ku, Lount, and Murnighan, 2010). In the current study, likelihood of engaging in ethical behaviors was measured using a scenario-based survey. Three scenarios were developed by the authors based on five semesters of a term project in which students were asked to identify a situation from their work history in which they encountered an ethical dilemma. The three most frequently mentioned ethical dilemmas—stealing from work, sexual harassment, and covering up wrong-
doing of a friend—were used to develop three amalgamated scenarios. The three scenarios were tested for content validity using a sample of 23 students. A full scenario-based instrument was developed where participants were then asked how likely they would be engage in two behaviors, the second being an escalation of involvement. Participants were asked 1) how likely they would be to approach one or more of the people involved in the scenario and 2) how likely they would be to report the incident to a higher authority. A five-point Likert response was used ranging from “not at all” to “definitely” for each response (see Appendix A). The finalized scenario-based instrument was pilot tested on an independent sample of 68 students followed up by a debriefing.

Results

Descriptive statistics and correlations were calculated for the dependent and independent measures (Table 1).

Regression analysis was used to test the hypotheses. Per Aiken and West (1991) direct effects were entered into the model first to test for significance and effect size; interaction terms were entered into the model in the second stage. Three direct effects were hypothesized. Hypothesis 1 predicted that students who took a business ethics course would have a higher likelihood of engaging in ethical behavior. This hypothesis was supported and found to be significant ($\beta = 1.678, t = 2.746, p = .007$). Hypothesis 2a predicted that students who perceived higher percentages of students cheating would have a lower likelihood to engage in ethical behavior. This was not supported ($\beta = .002, t = .241, p = .809$). Hypothesis 2b predicted that
students who perceived higher percentages of students caught cheating would have a higher
likeliness to engage in ethical behavior. This hypothesis was also supported and found to be
significant (β = .038, t = 2.739, p = .007) (See table 2).

Two interactive effects were hypothesized. Hypothesis 3 predicted that experiential
learners would have a higher likelihood of engaging in ethical behavior if they have taken a
business ethics class. This hypothesis was supported (β = 2.662, t = 2.064, p = .04). Hypothesis
4 predicted that non-experiential learners would have a higher likelihood of engaging in ethical
behavior if they perceived higher percentages of students caught cheating. This hypothesis was
not supported (β = .004, t = .145, p = .885) (see Table 2).

Insert Table 2 about here

Discussion

For those of us in business ethics education, the hope is that our classes have a positive
impact on increasing the sensitivity of our students to the nuances of ethical situations and
engaging in ethical behaviors. Our findings show support that taking a business ethics class
positively impacts the likelihood of a student engaging in ethical behavior. This is most likely
due to increased sensitivity to ethical situations, and a better understanding why specific
behavior would be considered unethical. Additionally, our findings show support for the impact
of the ethical climate of the university on our students. Our results show that students who
perceive higher percentages of students caught cheating are more likely to engage in ethical
behavior. The implication for both these findings is that formal and informal learning spaces are
important as environments in instructing our students, particularly as they pertain to ethics
education. Our teachings in the classroom need to align with our policies and practices outside the classroom.

It is of interest to note that our hypothesis on the effect of observing other students cheating on likelihood of engaging in ethical behavior was not significant. Based on a large body of literature on cheating (e.g., McCabe, 2005; McCabe and Trevino, 1995) we expected students who perceived higher levels of cheating would be less likely to engage in ethical behavior. Our speculation on the prevalence of cheating as a factor in the ethical climate is that cheating is so widespread (students reported a mean of 66%) that students are accustomed to seeing people cheat. Our students’ assumption is that a large majority of their peers are cheating as they are most likely observing widespread cheating with little consequences. However, when students observe that there are potential consequences for cheating (i.e., being caught), this hopefully reinforces the message that if you do something that is against the rules, there will be consequences.

Our findings on the interaction between learning styles and learning spaces as it relates to deep learning are intriguing. When we examined the interaction with learning style (experiential versus non-experiential) and having taken a business ethics class, we found that business ethics class had a larger impact on the perspective of experiential learners than non-experiential learners. This finding is in sync with Kolb and Kolb’s (2009) theorizing of deep learning.

Specifically, experiential learners are already adept at using contextual cues from the climate as a means of learning—in a sense, they have already gleaned the lessons about acceptability of cheating and the likelihood of getting caught from the ethical climate. The classroom experience, on the other hand, engages abstract learning and solicits reflective learning as it applies to previous experience by forcing experiential learners out of their comfort
zone and (hopefully) reframing their previous experiences. This eventually leads to deep learning (Kolb & Kolb, 2009) for these individuals, which results in higher likelihood for engaging in ethical behavior.

Although our initial analysis did not reveal a significant interaction effect of percentage caught cheating and learning styles on likelihood of ethical behavior, a closer look at the data indicated that among non-experiential learners, there was a significant difference between students who perceived above average percentages of students caught cheating and below average percentages of students caught cheating and their mean likelihood of engaging in ethical behavior. Non-experiential learners who perceived below average percentages had a mean likelihood of engaging in ethical behavior of 21.9; non-experiential learners who perceived above average percentages had a mean likelihood of engaging in ethical behavior of 23.1 (F = 5.25, p = .024). On the other hand, for experiential learners the means were very similar: 22.8 for those who perceived above average percentages of students caught cheating and 22.7 for those who perceived below average percentages of students caught cheating (See Table 3a). A similar pattern existed among experiential and non-experiential learners as related to taking a business ethic class. The difference between the means for experiential learners of likelihood of engaging in ethical behavior was 3.42 points (out of 30) (F = 10.02, p = .003); the difference between the means for non-experiential learners of likelihood of engaging in ethical behavior was .8 (out of 30) (F = 1.05, p = .307) (see Table 3a).

Insert Table 3a about here

In order to further investigate the differences between experiential and non-experiential learners as it related to the interaction between learning spaces (taking a business class and the
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ethical climate as measured by percentage of students caught cheating) and likeliness to engage in ethical behavior, we split the data set into two sub-samples—experiential and non-experiential. Regression equations were then used to test the effects of the two learning spaces.

The results from the regression analysis after splitting the data based on learning styles suggest for experiential learners taking a business ethics class was a more impactful than ethical climate on likelihood of engaging in ethical behavior. The results suggest a reverse pattern for non-experiential learners as the perception of the percent of students caught cheating was a significant predictor for likelihood of ethical behavior and the effect size for taking a business ethics class was much smaller than for experiential learners (see table 3b).

Our findings support the deep learning theorizing suggested by Kolb and Kolb (2009).

Different learning styles interact with different levels of learning space in a manner which can stimulate deep learning. More specifically, experiential learners are adept at using experience-based learning within informal learning spaces to learn. Thus, the formal learning space of the classroom situation which fosters vicarious learning skills of reflection encourages deep learning.

Our findings also suggest that non-experiential learners, who are adept at vicarious learning, are able to engage in active learning by experiencing unethical behavior and its consequences as a member of the community. The ethical climate of the university acts as an informal learning space fosters active learning and stimulates deep learning.
Implications for Ethics Education

Ethics education does not happen in a vacuum. It is critical that those of us in business education recognize that business education is two pronged. The classroom experience as a formal learning space is where students can engage in abstract and reflective learning. This is where the concepts, theories, and their applications can be used to for vicarious learning. The ethical climate of the university as an informal learning space is where students can act as a member of the climate and gain concrete experiences—in a sense the practical application of the vicarious learning. In order for any ethics education to be successful, universities must view ethics education holistically and recognize that at all three levels of the university learning space—micro, meso, and macro—act on our students’ perceptions to stimulate deep learning.

We must practice what we preach. Our students learn both by engaging in vicarious learning in the classroom and by experiencing those lessons as real life consequences outside the classroom.

The other implication from our findings is that for our students, their experiences outside the classroom are potentially more important than their experiences inside the classroom. For both experiential and non-experiential learners, the ethical climate positively impacts their perceptions of ethical behavior. Based on our findings, we suggest more research into the interaction of ethical climate and learning styles as it relates to a number of outcomes linked to developing more ethical students and more ethical managers.
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References


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Lave, J. and Wenger, E. (1990), Situated learning: Legitimate peripheral participation, Cambridge, UK: Cambridge University.

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Table 1. Descriptive Statistics and Correlations

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<td>2. Took Business Ethics Class</td>
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<td>0.42</td>
<td>0.18*</td>
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<td>3. Experiential Learner</td>
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<td>4. Percent Cheating</td>
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<td>5. Percent Caught Cheating</td>
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<td>-0.09</td>
<td>-0.06</td>
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** Correlation is significant at the 0.01 level (2-tailed).
* Correlation is significant at the 0.05 level (2-tailed).
### Table 2. Regression Analysis of Likelihood of Engaging in Ethical Behavior

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<tr>
<td></td>
<td>Experiential X Caught Cheating</td>
<td>0.004</td>
<td>0.031</td>
<td>0.145</td>
<td>.885</td>
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</table>
Learning Styles Interaction

### Table 3a. Means of Learning Styles by Direct Effects

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<th>Mean</th>
<th>sd</th>
<th>F</th>
<th>Sig</th>
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</thead>
<tbody>
<tr>
<td>Experiential Learner</td>
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<td>10.02</td>
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<td>No Business Ethics Class</td>
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<td>23.00</td>
<td>4.07</td>
<td>1.05</td>
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<td>22.20</td>
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</table>

*High and low defined as above or below the mean

### Table 3b. Regression Analysis by Learning Style of Direct Effects

<table>
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<th>Beta</th>
<th>Std. Error</th>
<th>t</th>
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<td>1.072</td>
<td>3.118</td>
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<td>Percent Caught</td>
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<td>.027</td>
<td>1.398</td>
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<td>Took Business Ethics Class</td>
<td>1.001</td>
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<tr>
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<td>Percent Caught</td>
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<td>.016</td>
<td>2.536</td>
<td>.012</td>
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</table>
Appendix A. Scenario-based Survey for Likelihood of Engaging in Ethical Behavior

Below are three situations which a person observe or experience in an internship or in a job. Indicate how likely you would be to report the situation to a supervisor.

1. You have been working part-time at Joe’s Pizzeria and Restaurant as a waiter/waitress for about six months. One night while working you observe that one of the bartenders has not been putting all the cash from the checks in the register. Twice you have handed him a check with cash, and it seems that he is pocketing the cash and ripping up the check.

How likely would you be to say something to the bartender about what you observed?

_____Not at all       ____Probably not       _____Possibly       _____Probably       ____Definitely

How likely would you be to say something to Joe the owner about what you observed?

_____Not at all       ____Probably not       _____Possibly       _____Probably       ____Definitely

2. Your dad put you in touch with a friend of his who is the president of a marketing firm that specializes in exactly what you want to do after college. The interview went well, and you were offered a paid internship at the company. The group that you work in has about 20 people, and you really like your job. There is another intern who works in the same department. You have only been there for about 2 weeks, but you notice that the guy who is in charge of your group is always hitting on the other intern-- making sexually related comments about her and to her. She is really uncomfortable with the situation, but does not know what to do.

How likely would you be to say something to your father about what you observed?

_____Not at all       ____Probably not       _____Possibly       _____Probably       ____Definitely

How likely would you be to say something to human resources about what you observed?

_____Not at all       ____Probably not       _____Possibly       _____Probably       ____Definitely

3. You and your friend were both hired for summer jobs at a local golf course doing grounds work. The head grounds keeper has a board of what you are supposed to be doing each day, and usually checks on you two or three times a day. Otherwise you and your friend are on your own and just expected to get the work done. Your hours are 8am to 3pm every day for the summer. Your friend is continually late for work. He asks you to punch him in at 8am so he does not get into trouble. He is a good friend so you just do. One Sunday morning you punch him in at 8 as always, but it is 11am and he still hasn’t shown up. You get a text from him that he is with his girlfriend at the beach and wants you to cover for him for the day.
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How likely would you be to say something to your friend about what has happened?

_____ Not at all  _____ Probably not  _____ Possibly  _____ Probably  _____ Definitely

How likely would you be to say something to the head grounds keeper about what has happened?

_____ Not at all  _____ Probably not  _____ Possibly  _____ Probably  _____ Definitely