



Occupational Safety, Health, and Environment (OSH&E) Program
Department of Computer Science and Industrial Technology
Southeastern Louisiana University
SLU 10847
Hammond, LA 70402

December 10, 2012

Dear OSH&E Advisory Committee Member,

On behalf of Southeastern Occupational Safety, Health, and Environment (OSH&E) Program, we would like to give our sincere appreciation to you for your involvement in the OSH&E Advisory Committee as well as your participation in the meetings and discussion.

Enclosed please find the report of the OSH&E Advisory Committee meeting that was held on October 26, 2012. Please feel free to let us know should you have any questions and comments!

It is great honor and pleasure to invite you to our next semi-annual meeting, which is tentatively scheduled from 9:30 AM to 12:00 PM on **April 26, 2013**. A formal invitation will be sent to you when the meeting date and venue are confirmed.

Thank you very much for your consistent contribution to the program!

Sincerely,

Dr. Lu Yuan
Assistant Professor

Ms. Dorinda Folse
OSH&E AC Chairperson

Mr. Lance Roux
OSH&E AC Co-Chairperson

OSH&E Advisory Committee
October 26, 2012 Meeting Report by Mrs. Amanda Brown,
Mr. Lawrence Mauerman and Dr. Lu Yuan

The last Occupational Safety, Health, and Environment (OSH&E) Advisory Committee meeting was held from 9:30 AM to 1:00 PM on October 26, 2012 at Southeastern University Center in Hammond. (Please see the attached example photos!) This meeting was part of the CSIT Department Advisory Committee Annual Meeting. The attendees include ten of the twenty-three OSH&E Advisory Committee members (**Appendix A** with update-to-date contact information). Drs. Lu Yuan and Ephraim Massawe, and Mrs. Amanda Brown, the three full-time faculty members of the OSH&E program, were co-hosts of the meeting. Mr. Lawrence Mauerman, the former OSH&E coordinator, attended the meeting. One OSH&E student, Richard Sanders, was present. Absent were Steve Pereira, Richard Matherne, Don Jones, Wayne LaCombe, James Kerr, Beth Inbau, Dawn Bahm, Alex Appeaning, Michael Gautreaux, Owens O'Quinn, Trey Rivet (on behalf of Connie Fabré), Glenn Young, and Dale Towle.

Appendix B lists the agenda of the overall meeting. Dr. Dan McCarthy, Dean of College of Science and Technology, thanked the advisory committee members for taking the time to come to the meeting, which has always been a success. Mr. Calvin Fabre, the Department Advisory Committee Chairperson, shared the success of the eight Computer Science (CS) Spring 2012 graduates with the members. He was also excited about the entire State's opportunity for technology innovation and economic development, and was pleased with the quality of the programs within the CSIT Department.

Dr. Sebastian Van Delden, the CSIT Department Head, then spoke to the audience. He introduced the four new faculty members including Mrs. Brown who became a full-time OSH&E instructor in August 2012. He also briefly summarized the freshman convocation which was conducted in the beginning of the Fall semester, as well as the continuous budget cut which seemed to drive the University into a path to search for private founding. He also shared the successful preparation of the CS program for the ABET-CAC (Computer Accreditation Commission) re-accreditation with the members and praised the entire CS faculty for their A+ effort.

Next, Dr. Van Delden asked the coordinators of the other three programs, OSH&E, ET, and IT, to brief members with the accomplishments that each program has achieved over the last year. In particular, Dr. Yuan stated that the OSH&E program has been growing continuously with a total enrollment close to 100. Because of the ABET accreditation that the program received last year, 14 graduates since Fall 2011 have received the GSP (Graduate Safety Practitioner) designation from the BCSP (Board of Certified Safety Professionals). He introduced Mrs. Brown again, and expected the OSH&E advisory committee members to have a productive meeting for continuous improvement of the program.

At that time the committee broke out into groups by degrees.

The agenda for the OSH&E Advisory Committee meeting is attached in **Appendix C**. Ms. Dorinda Folse and Mr. Lance Roux welcomed the committee members. Dorinda told the

audience that there were 43 workplace fatalities, of which 40% occurred in construction, in Louisiana in 2011. Some of the factors/causes that contributed to these fatalities include: younger age, workers doing things that are not part of their job, and struck by, etc. Next, members introduced themselves as well as expressed the most exciting moment since last advisory committee meeting in April 2012. In particular, Dr. Massawe told the members that the first national workshop on applications of nanotechnology for safe and sustainable environmental remediation would be held at Southeastern Louisiana University June 5-7, 2013. Detailed information about the workshop can be found on the conference website, http://www.selu.edu/acad_research/programs/nano_4_rem_anssers/.

OLD BUSINESS

Several things have been done to encourage the OSH&E students to apply for the ASSE Don Jones Scholarship, which has been increased to two awards with each one worth \$1500 this year. First, Mr. David Noland, the current President of the ASSE Greater Baton Rouge Chapter, was invited to speak about the scholarship at the ASSE Southeastern Student Section monthly meeting on Oct.10, 2012. Then, Dr. Yuan would ask some former ASSE Don Jones Scholarship recipients to write testimonials on how the scholarships have helped them with their study. He would send an email along with these testimonials to those students who meet the criteria for the ASSE foundation scholarship and encourage them to apply by December 1, 2012. (Note: Such an email was sent out on Monday Nov.5, 2012. As of Nov.13, at least three students have submitted their applications.)

Mr. Mauerman then asked the members questions regarding support for and increase to the Linda Sullivan scholarship, which has been in place in the last ten years. Lance would like Mr. Mauerman to present more information about the scholarship. Because of the limited amount of money, such a scholarship has not been well maintained. Mr. Mauerman was interested in reaching out ExxonMobil if anyone has contacts with it. Perhaps we could also prioritize the female students for consideration of the scholarship to honor Mrs. Sullivan. Mr. Mauerman proposed to organize and send an industry committee to talk with ExxonMobil about endowing the scholarship.

Next, Dr. Yuan presented the preliminary results of OSH&E Alumni Survey that was distributed with the help of Southeastern Alumni Association through SurveyMonkey.com in October 2012. We have had 60 BS graduates since Spring 2006. Twenty-eight (including 3 Associate-degree graduates) filled out the surveys. The complete results are available in **Appendix D**. A summary of key findings is as follows:

- 1) The top two types of employment are: construction/maintenance/structural and manufacturing/processing/refinery.
- 2) Graduates are satisfied with various aspects of the OSH&E program in general. Items that received relatively lower satisfaction include: “Real-world” experiences, exposure, examples, etc. in or out of the classroom [Plans to improve this include: continue the acquisition of equipment/instruments through purchase and donation; add hands-on component into relevant classes; and plan facility tour, etc.]; Use of appropriate technology in the classroom [Plans to improve this include: improve the conditions of the classroom/lab (Anzalone Hall 215) that is dedicated to OSH&E through grant and industrial support]; and Library resources related to OSH&E [Plans to improve this

include: invite library staff to talk about the resources that are available to OSH&E faculty and students at OSHE classes and ASSE Student Section monthly meetings.]

- 3) Almost all graduates who responded to the survey agreed that our OSH&E program meets each of the four educational objectives.
- 4) Graduates indicated that the OSH&E program helped them learn the skills/abilities that are reflected by the student outcomes in general. Items that received relatively lower rating include: Ability to utilize basic laboratory instrumentations associated with safety, health, and environment [Mr. Alan Rovira commented that Shell would be willing to donate new equipment.]; and Understanding fundamental exposure assessment and environmental sampling techniques [This is a fairly new outcome as required by the ABET accreditation.]
- 5) Graduates indicated that most of the OSHE major classes except OSHE 452 *Pollution Fundamentals and Control Technologies* which has not been offered yet have helped them in their current/previous jobs and/or graduate studies. Classes that received relatively higher rating include: OSHE 121 *Safety and Health Program Management and Administration*; OSHE 231 *Safety Laws, Regulations, and Standards*; and OSHE 421 [OSHE 321] *Measurement of Safety Performance and Accident Investigation and Analysis*.
- 6) The other courses/concepts that either helped graduates or would help them if they were taught include: Technical writing (which has been covered in ENGL 322 *Introduction to Professional and Technical Writing*); Would like more information on the processes in a plant; Presentation and communication skills in management and business; IT courses, Materials and processes; Communication and public speaking; "... business class I took was very helpful and also all of the English and writing classes ...;" ASP/CSP Prep course; Calculus, and Organic Chemistry; and "English (Writing Skills is a Must). If we had a class on Transportation Safety."
- 7) Among the 22 graduates who have responded to the question on if they currently hold or plan to obtain licensure/certification in the safety, health, and environment field, 1 has obtained CSP (Certified Safety Professional), 11 has obtained ASP (Associate Safety Professional) or GSP (Graduate Safety Practitioner) and planned to take CSP in the future, and some of other graduates hold certificates such as CSST (Construction Site Safety Technician), CHST (Construction Health and Safety Technician), API TES (American Petroleum Institute Tank Entry Supervisor), and NREMT (National Registry of Emergency Medical Technicians).
- 8) Among the 23 graduates who have responded to the question on if they are a member of any professional organization, 16 are members of ASSE (American Society of Safety Engineers), 3 (of those 16) are also members of AIHA (American Industrial Hygiene Association), 1 (of those 16) is also a member of NFPA (National Fire Protection Association). In addition, 13 graduates have indicated the interest in becoming a member of OSH&E Alumni Chapter within Southeastern Louisiana University Alumni Association.
- 9) The changes that the graduates would suggest to improve the OSH&E program include:
 - a) More hands-on experiments in a "plant-like" setting. i.e., where is the suction, where is the discharge, where are the power sources, etc.
 - b) "...see some internet classes, as I travel a lot and would like to take some of the new classes now offered."

- c) More presentation and communication classes
- d) Increase courses in Behavioral Safety
- e) Interviews with safety professionals from all parts. Real life situations. Touring facilities.
- f) "...more communication classes would greatly help the new graduates entering the HSE industry."
- g) Better facilities and equipment
- h) "The only change I would make to the program would be the fact that OSH&E majors are required to take Organic Chemistry. This level of Chemistry is far too advanced for the skill that we need when we get out into the work place and the class is NOT beneficial at all in this field of work. I now have about 3 and a half years in the field doing strictly safety and environmental and that class was not relevant at all. I would like to add that this particular class at SLU is extremely difficult and the faculty teaching makes this course nearly impossible. Over all four of my years at SLU this was the biggest problem I had and about 90% of all other OSH&E students shared this same frustration through general conversation."
- i) More availability of online courses
- j) "Only that some required courses were not offered but once a year and should be offered more frequently. (Specifically Organic Chem for IT Students for 1)"
- k) Hand-on use of IH equipment
- l) More teachers with education and real world experience. Teach interaction skills. Provide real life scenarios and have the students make cases.
- m) "...an ASP/CSP prep course would benefit and a CPR/first aid class would be AWESOME to the curriculum."
- n) More teachers with industrial and refining experience.
- o) More thorough environmental management training. Specific to Tier II, Title V, air/water permitting, consent decree, etc.
- p) Faculty should engage the companies and industries located around (Baton Rouge, Hammond, New Orleans, and Covington) for projects and internships for the students. The Academic Advisory Board members represent many industries around Southeastern Louisiana, notwithstanding, many students graduate without experiencing an internship opportunity. An internship is a valuable component for the learning process.
- q) Add Department of Transportation courses as they relate to vehicle safety, driver qualifications, and current trends.

Dr. Massawe then presented a particular assessment task that the entire OSH&E faculty was currently doing. The current list of courses that satisfy competencies for the OSH&E BS program is available at <http://goo.gl/4hswP>, but it needs to be revised as some of the courses do not cover the specific competency (in other words, program outcome) based on the assessment results in the last couple of years. Since the program outcome assessment is based on the assessment of selected relevant courses, it is imperative to ensure that the list is always accurately updated. The Course Specification Sheets, available at <http://goo.gl/EEUTV>, was also examined to ensure their accuracy and consistency. This ongoing task has been started since the beginning of Fall 2012, will be conducted continually throughout Spring 2013.

The last item under old business was the recent internship and employment opportunities for OSH&E students, which include:

- Internship
 - Cameron - Summer 2012 HSE Intern
 - Weir Environmental - Summer 2012 Intern
 - Traylor Bros., Inc. - Fall 2012 Safety Intern in Washington DC
 - Barriere Construction - Summer 2013 Safety Intern
 - Georgia Gulf Chemicals & Vinyls - Spring/Summer 2012 Health and Safety Interns
- Employment
 - Aquilex HyrdoChem Branch Safety Coordinator
 - Beard Construction Group Entry Level Position
 - Boasso America Corporation Facilities Safety Specialist
 - Georgia-Pacific Safety and Health Entry Level Professional Program
 - Louisiana Scrap Metal Recycling EHS Manager
 - LWCC (Louisiana Workers' Compensation Commission) Job Opening
 - Olin Entry Level Safety Specialist
 - RAIN CII CARBON EHS Coordinator

It was great to see many companies were starting or continuing to hire our students.

NEW BUSINESS

Dr. Yuan first briefed the members about plans of developing new OSH&E courses, such as Risk Management and Insurance (also proposed by Mr. Steve Pereira), Workers' Compensation, Reading Prints and P&IDs, and Radiation, etc. He encouraged members to get involved by sending ideas and suggestions to the OSH&E faculty, as well as by serving on sub-committees (sort of) to work on the course development. He also mentioned that he has spoken with Mr. Mike Page and has invited him to work on the development of a new course about workers' compensation and insurance. Mr. Rick Saizan suggested that the OSH&E faculty should send the draft of the course plan to the advisory committee members for review and critique.

Next, Dr. Yuan talked about the program's plan on purchase of new safety equipment. Dr. Van Delden led the effort to apply for a grant to get the podium set up for Anzalone Hall 215. As of Nov.28, 2012, the application has been approved and we hope to have the podium set up before the Fall 2013 semester. Meanwhile, Dr. Yuan planned to work on the Southeastern Small Project (< \$5000, due day 2/11/2013) Tech Fee Grant to buy the following safety equipment (which is one of the concerns in the ABET statement): Electrical Test Instruments, GFCI's, PPE, respirators, and those that were suggested from the OSH&E Advisory Committee Questionnaire Fall 2011 results (page 3 of the AC 042712 meeting report, <http://goo.gl/APWk1>).

We congratulated Alliance Safety Council, in partnership with LSU, to be selected as one of the new OSHA Training Institute (OTI) Education Centers, <http://goo.gl/hQX7S>. Members discussed other training grants and collaboration opportunities that we could pursue. In particular, we were continuously interested in the OSHA Susan Harwood Training Grant, and planned to identify problem areas and/or industries.

In the end of discussion, Dr. Yuan invited the members to attend the OSH&E Fall 2012 Graduation Party on Friday December 7, 2012 from 5:30 PM to 8:00 PM at Trey Yuen Hammond. At the party, Mr. David West, treasurer and member of board of directors for Board of Certified Safety Professionals (BCSP), would present the GSP (Graduate Safety Practitioner) Certificates to the five OSH&E Fall 2012 graduates. We have also invited the representatives from the Greater Baton Rouge Chapter of ASSE, the CSIT Department Head, past OSH&E graduates, as well as some other colleagues and friends to celebrate the achievements with the graduates. (Note: Mr. Glenn Young and his wife attended the party. Other members including Mr. Don Jones, Ms. Connie Fabre, Mr. Rick Saizan, Ms. Beth Inbau, Ms. Dorinda Folse, and Mr. Lance Roux, were interested but unfortunately could not make it. We greatly appreciate the interest and support from the advisory committee members.)

The meeting adjourned at 12 PM and group pictures were taken before the committee members headed to the Luncheon room.



Appendix A

OSH&E Advisory Committee

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* - Mr. Mauerman retired after Spring 2012.

Appendix B
Department of Computer Science and Industrial Technology
Advisory Committee Meeting

Friday, October 26, 2012
Southeastern's University Center

Agenda

9:00-9:30 a.m.	Registration with Coffee, Juice & Pastries	Room 139
	CSIT Faculty Welcomes Committee Members	
9:30	General Assembly: Call to Order	Room 139
	Calvin Fabre, Advisory Committee Chairperson	
9:30-9:35 a.m.	Welcome & Comments from the Dean	
	Dr. Dan McCarthy, Dean, College of Science & Technology	
9:35-9:45 a.m.	Advisory Committee Address	
	Calvin Fabre, Advisory Committee Chairperson	
9:45-10:00 a.m.	Departmental Progress Report	
	Dr. Sebastian Van Delden, Department Head	
10:00-12:00	Break-out by Degree	
	Computer Science	Dr. Ghassan Alkadi Room 127
	Engineering Technology	Dr. Cris Koutsougeras Room 139
	OSH&E	Dr. Lu Yuan Room 122
	Industrial Technology	Dr. Roy Bonnette Room 104
12:00-1:00 p.m.	Luncheon	Room 125

Appendix C
OSH&E Advisory Committee

Semi-Annual Meeting Agenda

October 26, 2012

<u>Time</u>	<u>Issues</u>	<u>Actions</u>
10:35 - 10:45 am	Welcome & Introduction (By Ms. Dorinda Folse and Mr. Lance Roux)	
10:45 - 11:15 am	Old Business	
	1. ASSE Don Jones Scholarship (By Dr. Lu Yuan)	
	2. OSH&E Alumni Survey (By Dr. Lu Yuan)	
	3. List of OSHE Courses that Satisfy Program Competencies (By Dr. Ephraim Massawe)	
	4. Recent Internship/Employment Opportunities (By Ms. Amanda Brown)	
11:15 - 12:00 pm	New Business	
	1. Development of New Courses (By Dr. Lu Yuan)	
	2. Purchase of Safety Equipment (By Dr. Lu Yuan)	
	3. Training Grants/Centers (By All)	
	4. Others	
12:00 pm	Luncheon	

Appendix D

Response Summary

Total Started Survey: 28
Total Finished Survey: 28 (100%)

PAGE: 1

1. Please provide the following information about your current job or graduate study. All responses will be kept in the strictest confidence.

[Download](#)

	Response Percent	Response Count
Your Name Show Responses	100.0%	28
Name of Organization Show Responses	100.0%	28
Job Position Show Responses	96.4%	27
Major Responsibility Show Responses	89.3%	25
Supervisor Name Show Responses	89.3%	25
Supervisor's Mailing Address Show Responses	50.0%	14
Supervisor's Telephone Number Show Responses	46.4%	13
Supervisor's Email Address Show Responses	60.7%	17

answered question 28

skipped question 0

2. Which category best describes the type of organization in which you are employed?

[Create Chart](#)[Download](#)

	Response Percent	Response Count
Business	3.8%	1
Construction/Maintenance/Structural	38.5%	10
Education	3.8%	1
Government/Military	0.0%	0
Healthcare	3.8%	1
Insurance company	7.7%	2
Manufacturing/Process/Refinery	30.8%	8
Nonprofit organization	0.0%	0
Recycling	3.8%	1
Retail/Warehouse	0.0%	0
Self-employed or private practice	0.0%	0
Shipyard	0.0%	0
Transportation/Distribution	7.7%	2

15

Other (please specify)	1
Show Responses	
answered question	26
skipped question	2

3. Using a scale from 1 to 5, where 1 means Very Dissatisfied, and 5 means Very Satisfied, please indicate how satisfied you are with the following aspects of Occupational Safety, Health, and Environment (OSH&E) program. [Create Chart](#) [Download](#)

	1	2	3	4	5	Not Applicable	Response Count
Overall quality of OSH&E program	0.0% (0)	0.0% (0)	3.6% (1)	32.1% (9)	64.3% (18)	0.0% (0)	28
Clarity of the degree requirements as outlined in the catalogue and/or curriculum sheets	0.0% (0)	0.0% (0)	3.6% (1)	17.9% (5)	78.6% (22)	0.0% (0)	28
Usefulness of the academic advice you received from your advisor	0.0% (0)	0.0% (0)	7.1% (2)	17.9% (5)	75.0% (21)	0.0% (0)	28
Opportunities to interact with faculty outside of class	0.0% (0)	0.0% (0)	7.1% (2)	10.7% (3)	82.1% (23)	0.0% (0)	28
Effectiveness of the faculty as teachers	0.0% (0)	0.0% (0)	3.6% (1)	39.3% (11)	57.1% (16)	0.0% (0)	28
Effectiveness of the faculty communicating with students verbally	0.0% (0)	0.0% (0)	7.1% (2)	32.1% (9)	60.7% (17)	0.0% (0)	28
Effectiveness of the faculty communicating with students in writing	0.0% (0)	0.0% (0)	3.6% (1)	28.6% (8)	67.9% (19)	0.0% (0)	28
Effectiveness of beginning courses in preparing you for advanced courses	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	67.9% (19)	0.0% (0)	28
Quality of instruction in advanced courses	0.0% (0)	0.0% (0)	7.1% (2)	17.9% (5)	75.0% (21)	0.0% (0)	28
Faculty treatment of students both inside and outside of the classroom	0.0% (0)	0.0% (0)	0.0% (0)	14.3% (4)	82.1% (23)	3.6% (1)	28
Professional activities, associations, or clubs associated with OSH&E	0.0% (0)	0.0% (0)	3.6% (1)	25.0% (7)	71.4% (20)	0.0% (0)	28
Opportunity for meaningful interaction with faculty in research or other scholarly activities	0.0% (0)	0.0% (0)	17.9% (5)	32.1% (9)	50.0% (14)	0.0% (0)	28
Availability of the required courses in OSH&E	0.0% (0)	3.7% (1)	11.1% (3)	29.6% (8)	55.6% (15)	0.0% (0)	27
Availability of elective courses you wanted to take in OSH&E	0.0% (0)	0.0% (0)	14.3% (4)	28.6% (8)	57.1% (16)	0.0% (0)	28
Quality of instruction regarding standards and ethics in OSH&E	0.0% (0)	0.0% (0)	0.0% (0)	21.4% (6)	78.6% (22)	0.0% (0)	28
Opportunities for you to collaborate with other students on class projects	0.0% (0)	3.6% (1)	3.6% (1)	17.9% (5)	75.0% (21)	0.0% (0)	28
Library resources related to OSH&E	0.0% (0)	7.1% (2)	10.7% (3)	39.3% (11)	42.9% (12)	0.0% (0)	28
Use of appropriate technology in the classroom	0.0% (0)	11.1% (3)	14.8% (4)	33.3% (9)	40.7% (11)	0.0% (0)	27
Facilities and equipment (including computer resources) for courses in OSH&E	0.0% (0)	3.7% (1)	18.5% (5)	29.6% (8)	48.1% (13)	0.0% (0)	27

"Real-world" experiences, exposure, examples, etc. in or out of the classroom	0.0% (0)	0.0% (0)	25.0% (7)	32.1% (9)	39.3% (11)	3.6% (1)	28
The size of classes in OSH&E	0.0% (0)	0.0% (0)	0.0% (0)	7.1% (2)	89.3% (25)	3.6% (1)	28
Help you received information with regard to finding employment in OSH&E	3.6% (1)	0.0% (0)	10.7% (3)	10.7% (3)	64.3% (18)	10.7% (3)	28
answered question							28
skipped question							0

4. The following is the current statement of the OSH&E program objectives. Please [Create Chart](#) [Download](#) tell us according to your experience whether our program meets each of the four objectives and provide us your suggestions should it be revised.

	Agree	Don't Know	Disagree	Not Applicable	Response Count
1) Apply knowledge and principles of mathematics, science, technology, and management in industry, business, or other related areas of employment as occupational safety, health, and environment professionals	100.0% (28)	0.0% (0)	0.0% (0)	0.0% (0)	28
2) Apply practical-oriented knowledge and skills in safety, health, and environment to anticipate, identify and evaluate hazardous conditions and practices, to develop hazard control designs, methods, procedures and programs, and to implement and manage effective safety, health, and environment programs	100.0% (28)	0.0% (0)	0.0% (0)	0.0% (0)	28
3) Become effective communicators and ethical facilitators within the practice of safety, health, and environment	89.3% (25)	10.7% (3)	0.0% (0)	0.0% (0)	28
4) Continue professional development to address the need of applying principles of safety, health, and environment within a constantly changing and increasingly diverse environment	96.4% (27)	3.6% (1)	0.0% (0)	0.0% (0)	28
answered question					28
skipped question					0

5. On a scale of 1 through 5, where 1 means Did Not Help at All and 5 means [Create Chart](#) [Download](#) Helped a Lot, indicate how much the OSH&E program helped you in developing the following skills or abilities:

	1	2	3	4	5	Not Applicable	Response Count
Ability to apply basic mathematical and statistical knowledge in the safety, health, and environment field	0.0% (0)	0.0% (0)	7.1% (2)	32.1% (9)	60.7% (17)	0.0% (0)	28
Understanding basic principles in chemistry, physics, and biology as it pertains to the practice of safety, health, and environment	0.0% (0)	0.0% (0)	7.1% (2)	28.6% (8)	64.3% (18)	0.0% (0)	28
Understanding basic principles in business management as it pertains to the practice of safety, health, and environment	0.0% (0)	0.0% (0)	7.1% (2)	32.1% (9)	60.7% (17)	0.0% (0)	28

environment							
Ability to understand occupational safety, health, and environment fundamentals	0.0% (0)	0.0% (0)	7.1% (2)	14.3% (4)	78.6% (22)	0.0% (0)	28
Ability to know legal aspects of safety, health, and environmental practices	0.0% (0)	3.6% (1)	7.1% (2)	21.4% (6)	67.9% (19)	0.0% (0)	28
Understanding the interactions of physical, chemical, biological, and ergonomic agents, factors, and/or stressors on the human body	0.0% (0)	3.6% (1)	3.6% (1)	32.1% (9)	60.7% (17)	0.0% (0)	28
Understanding the application of laws, regulations, standards, and codes to safety, health and environmental conditions	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	67.9% (19)	0.0% (0)	28
Ability to understand and use basic principles of fire prevention and protection in the workplace	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	67.9% (19)	0.0% (0)	28
Ability to know industrial and construction safety throughout the work processes	0.0% (0)	0.0% (0)	7.1% (2)	28.6% (8)	64.3% (18)	0.0% (0)	28
Ability to utilize basic laboratory instrumentations associated with safety, health, and environment	0.0% (0)	0.0% (0)	25.0% (7)	35.7% (10)	39.3% (11)	0.0% (0)	28
Ability to anticipate, identify and evaluate hazardous agents, conditions, and practices	0.0% (0)	0.0% (0)	10.7% (3)	17.9% (5)	71.4% (20)	0.0% (0)	28
Understanding fundamental exposure assessment and environmental sampling techniques	0.0% (0)	0.0% (0)	17.9% (5)	28.6% (8)	53.6% (15)	0.0% (0)	28
Ability to develop control designs, methods, procedures, and programs to eliminate or mitigate safety, health, and environmental hazards	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	67.9% (19)	0.0% (0)	28
Ability to conduct accident/incident investigation and analysis	0.0% (0)	0.0% (0)	10.7% (3)	14.3% (4)	75.0% (21)	0.0% (0)	28
Ability to implement and manage effective safety, health, and environment programs	0.0% (0)	0.0% (0)	10.7% (3)	21.4% (6)	67.9% (19)	0.0% (0)	28
Ability to effectively express thoughts in oral and written communications	0.0% (0)	0.0% (0)	10.7% (3)	21.4% (6)	67.9% (19)	0.0% (0)	28
Understanding the techniques, skills, and modern behavioral tools necessary for the practice of safety, health, and environment	0.0% (0)	0.0% (0)	7.1% (2)	28.6% (8)	64.3% (18)	0.0% (0)	28
Ability to effectively function as a part of multi-disciplinary team	0.0% (0)	0.0% (0)	7.1% (2)	17.9% (5)	75.0% (21)	0.0% (0)	28
answered question							28
skipped question							0

6. On a scale of 1 through 5, where 1 means Did Not Help at All and 5 means Helped a Lot, indicate the degree to which the CONCEPTS you learned in each of the following classes have helped you in your current/previous jobs and/or graduate studies.

[Create Chart](#) [Download](#)

	1	2	3	4	5	Not Applicable	Response Count
OSHE 111 Introduction to Occupational Safety and Health [Introduction to Safety and Health]	3.6% (1)	0.0% (0)	3.6% (1)	25.0% (7)	67.9% (19)	0.0% (0)	28

OSHE 112 Design of Hazard Controls	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	67.9% (19)	0.0% (0)	28
OSHE 121 Safety and Health Program Management and Administration	0.0% (0)	3.6% (1)	3.6% (1)	14.3% (4)	78.6% (22)	0.0% (0)	28
OSHE 141 [OSHE 241] Principles of Industrial Hygiene	0.0% (0)	3.6% (1)	10.7% (3)	39.3% (11)	46.4% (13)	0.0% (0)	28
OSHE 231 Safety Laws, Regulations, and Standards	0.0% (0)	3.6% (1)	3.6% (1)	14.3% (4)	78.6% (22)	0.0% (0)	28
OSHE 242 Ergonomics	0.0% (0)	0.0% (0)	10.7% (3)	35.7% (10)	53.6% (15)	0.0% (0)	28
OSHE 251 Environmental Laws and Practices	0.0% (0)	3.6% (1)	7.1% (2)	17.9% (5)	64.3% (18)	7.1% (2)	28
OSHE 261 Fire Protection and Prevention	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	67.9% (19)	0.0% (0)	28
OSHE 311 Safety and Health Program Development	0.0% (0)	3.6% (1)	0.0% (0)	21.4% (6)	67.9% (19)	7.1% (2)	28
OSHE 322 Behavior Aspects of Safety	0.0% (0)	0.0% (0)	3.6% (1)	17.9% (5)	67.9% (19)	10.7% (3)	28
OSHE 323 Product Safety and Liability	0.0% (0)	0.0% (0)	7.1% (2)	25.0% (7)	57.1% (16)	10.7% (3)	28
OSHE 341 Field Methods of Industrial Hygiene and Toxicology	0.0% (0)	3.6% (1)	14.3% (4)	14.3% (4)	60.7% (17)	7.1% (2)	28
OSHE 381 [OSHE 281] Safety in Chemical and Process Industries	0.0% (0)	3.6% (1)	7.1% (2)	21.4% (6)	67.9% (19)	0.0% (0)	28
OSHE 382 [OSHE 282] Construction Safety	0.0% (0)	3.6% (1)	0.0% (0)	17.9% (5)	67.9% (19)	10.7% (3)	28
OSHE 421 [OSHE 321] Measurement of Safety Performance and Accident Investigation and Analysis	0.0% (0)	0.0% (0)	3.7% (1)	14.8% (4)	74.1% (20)	7.4% (2)	27
OSHE 424 [OSHE 324] System Safety Methodologies	0.0% (0)	7.1% (2)	0.0% (0)	17.9% (5)	67.9% (19)	7.1% (2)	28
OSHE 441 Industrial Toxicology	0.0% (0)	3.6% (1)	3.6% (1)	10.7% (3)	60.7% (17)	21.4% (6)	28
OSHE 451 Hazardous Materials Management [Industrial Waste Management]	0.0% (0)	0.0% (0)	7.1% (2)	17.9% (5)	60.7% (17)	14.3% (4)	28
OSHE 452 Pollution Fundamentals and Control Technologies	0.0% (0)	0.0% (0)	0.0% (0)	17.9% (5)	35.7% (10)	46.4% (13)	28
OSHE 471 [OSHE 371] Education and Training Methods for Occupational Safety and Health	0.0% (0)	0.0% (0)	3.6% (1)	17.9% (5)	60.7% (17)	17.9% (5)	28

answered question **28**

skipped question **0**

7. What course(s), not listed above, have helped you in your job(s) and/or graduate studies? If you can not remember a course number, the course name or subject matter is enough. What concepts were NOT taught that, if taught, would have better prepared you for your job(s) or graduate studies? [Download](#)

Response	
Count	
Hide Responses	12

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Technical Writing
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IT courses, Materials and processes
10/8/2012 11:38 AM [View Responses](#)

Communication and public speaking.
10/8/2012 8:40 AM [View Responses](#)

I believe the business class I took was very helpful and also all of the English and writing classes as this is very important in the field in which I work. I had great teachers for these subjects and thought they did a wonderful job.
10/5/2012 8:48 AM [View Responses](#)

answered question 12

skipped question 16

8. Do you currently hold licensure/certification in the safety, health, and environment field? If yes, please list type(s) of licensure/certification held. If no, do you plan to obtain licensure/certification in the next 12 months? [Download](#)

Response

Count

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answered question 22

skipped question 6

9. Are you a member of any professional organization? If yes, please list the name(s). Are you a member of Southeastern Louisiana University Alumni Association? We are in a process of starting an OSH&E Alumni Chapter within Southeastern Louisiana University Alumni Association. Please indicate if you are interested in becoming a member of that group. [Download](#)

Response

Count

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answered question 23

skipped question 5

10. What changes would you suggest to improve the OSH&E program? [Download](#)

answered question 20

20

skipped question

8