Course: EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*
Response Rate: 27/36 (75.00 %)

1 - Thank you for completing an evaluation. Your constructive comments and ratings will be helpful to the faculty for improving this course for future students, helpful to the Duke administration for faculty promotion and awarding teaching-based recognitions, and helpful to other students considering enrolling in this course.

Response Option	Weight	Frequency	Percent	Percent Responses	Means	
I understand the purpose of course evaluations.	(1)	27	100.00%			
				0 25 50 100		
	·		Resp	oonse Rate		
			27/3	6 (75.00%)		

2 - The goal of evaluations is to help instructors identify which aspects of the course are most effective and which aspects could be productively changed. Please do your best to focus on the course components and learning environment, and avoid superficial comments that are not relevant to the learning environment (for example, comments about the appearance of the instructors or personal attacks are not helpful or appropriate).

Response Option	Weight	Frequency	Percent	Percent Responses	Means
I will do my best to be constructive.	(1)	27	100.00%		
				_	
				0 25 50 100	
			Resp	ponse Rate	
			27/3	36 (75.00%)	

3 - Prior research has identified biases in course evaluations related to instructor gender, age, race, ethnicity, sexuality, or other aspects of identity. Keep this in mind when reflecting on your course experience, and do your best to minimize the influence of any particular instructor identities on your evaluation.

		<del>-</del>							=	
Response Option	Weight	Frequency	Percent	Pe	rcent l	Respo	nses	Me	ans	
I will do my best to avoid potential biases.	(1)	27	100.00%							
				0	25	50	100			
			Resp	onse	Rate					
			27/3	6 (75.	00%)					

4 - When answering questions that refer to "learning," please consider the relevant aspects of learning that are specific to this course (for example, acquisition of skills and methodology, retention of course content, new ways of thinking, or anything else that the course offered).

Response Option	Weight	Frequency	Percent	Pe	rcent l	Respo	onses		Ме	ans	
I understand.	(1)	27	100.00%					I			
										-	
				0	25	50	10	)			
			Resp	onse	Rate						
	·		27/3	6 (75.	00%)						

5 - Overall AppraisalGive ar	overall ra	ting for the	quality of	this course	(e.g., cc	ontent, stru	cture, appr	oach, edu	cation	al value).			
Response Option		Weig	ht Freque	ency Per	cent	Percent Re	esponses			Me	ans		
Very poor		(1)	0	0.0	0%	l		0.74		4.17	4.16		
Poor		(2)	5	18.5	52%			3.74					
Adequate		(3)	5	18.5	52%								
Good		(4)	9	33.3	33%								
Excellent		(5)	8	29.6	63%							l	
		'		•		0 25	50 100	Question	n	Department	All Masters Co	ourses	
Response Rate	Mean	STD	Median	Departm	nent	Mean	STD	Median	All N	Masters Courses	Mean	STD	Median
27/36 (75.00%)	3.74	1.10	4.00	1403		4.17	0.96	4.00		1583	4.16	0.97	4.00

**Course:** EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*
Response Rate: 27/36 (75.00 %)

#### 6 - Please elaborate on your impressions of the quality of the course.

Response Rate

18/36 (50%)

- The professor makes the class very intensive with their teaching style and ability to deliver exactly what the students desire and what will be helpful to us. The course is well structured.
- The course, although new, is very promising and has real applications in the industry. The guest lectures and LCA workshops were worthwhile, the guest lecturers were highly engaging. The course could get a bit deeper and i wish the projects were a bit more engaging and realistic. The course felt a bit too easy to me, coming from Chem Engg background i expected some rigor and moderate load.
- · Helped me learn how companies can attain sustainability
- The course topics are really good and interesting but lacked structure. It was difficult to follow. Lot of great speakers but it was not of much help regarding the topic of the course. Had the opportunity to learn some very powerful tools like LCA but it is very difficult to learn it on our own, need some more focus on teaching how to perform LCA.
- The course aimed at introducing something new and important in reference to how companies would have to do business in the future.
- This course gave me the opportunity to work for a real company working in the sustainability sector. My mentor from the industry guided us on every step of the project and we learned so many things about user research and LCA techniques. It taught me a new tool to calculate the environmental impact of each product and service which will help me in my professional career. Since the course was introduced for the first time, it took some time to structure it well but overall it was a good experience. The guest lectures were really inspirational to get insights about how leaders think and act.
- · Interactive and not too burdening.
- I know this was the first semester this course was offered. With that in mind, I want this to be seen as constructive criticism since I believe this course has great potential if it is well organized. Firstly, this course felt more like a seminar with the amount of external speakers that came to class. Personally, I would've liked if we only had a couple of external speakers throughout the semester, and worked on outside research for our assigned projects OR worked directly with GaBi/Umberto software. That said, it would be advantageous for Guerry to bring in an LCA expert that can walk the students through the software (e.g. Umberto or GaBi) this is NOT an easy software to throw your students into, with little to no knowledge. To set next semester's students up for success, it would be best to have a few crash courses on LCA and/or Umberto as well as background information / research on why each group was assigned the type of group they were, and why they are considered "sustainable products"
- The course was not structured and it kept changing throughout the course. Better structure and more learnings towards sustainability would have been better.
- Really great guest speakers and interesting content (patents, sustainability, etc..)
- Teach us about many useful tools regarding LCA analysis and knowledge about patents.
- 1 The course lacked structure 2 The content did not support the course outcomes 3 The speakers spoke on un-related topics and lacked continuity 4 There was a conflict between our class deliverables and client expectations 5 The classes often ran longer than the stipulated time 6 The tools were provided, but we did not get training to use those tools
- It felt unplanned
- It's a very beneficial course and something that would be very industry relevant in the coming years Helped us learn few important concepts
- the scope of the course is good, but it needs to have a better structure. The course has a final project. It is better to have the project split into different parts and to have separate weekly assignments. It felt that the course lacked a checkpoint to check the groups are on the track. It will be really good if we have enough support to use LCA tools, one class could be dedicated to the LCA tool tutrial
- The title and the purpose of this class are very appealing but the delivery lacks structure and I kept losing the point of the classes. I appreciate Prof. Grune bringing so many industry experts who have made it in the real world but sometimes, I don't understand the purpose of their talk and very hard to relate it back to the class' title and purpose. Furthermore, I understand the purpose of LCA and appreciate the opportunity to learn it, but Prof. Grune pretty much expects us to work autonomously on it ourselves when he himself has never even used the software he asked us to use. So he could barely help us on that end.
- Being the first semester for this course to be taught, we weren't sure what was expected from the course. The content was interesting and the opportunity to engage with multiple experienced guest speakers was amazing.
- The course structure was a bit ambiguous and spontaneous, and there was no clear outcome of the course that connected to sustainability.

#### 7 - Give an overall rating for quality of the instructor (e.g., presentation, knowledge, fairness, responsiveness). **Guerry Grune** Means **Response Option** Weight Frequency **Percent Responses** Percent Very poor (1)0 0.00% 4.32 4.31 0 0.00% Poor (2)3 Adequate (3)11.11% (4)25.93% 17 Excellent (5)62.96% 25 100 Question Department All Masters Courses Mean STD Median Mean STD Median **All Masters Courses** STD Median Response Rate Department Mean 27/36 (75.00%) 4.52 0.70 5.00 0.88 5.00 1617 4.32 5.00 1797 4.31 0.90

Course: EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*

Response Rate: 27/36 (75.00 %)

#### 8 - Please elaborate on your impressions of the quality of the instructor.

#### **Guerry Grune**

Response Rate 16/36 (44.44%)

- Dr. Guerry is an admirable personality, with an exceptional background and knowledge on the subject. Oftentimes he's helped us navigate through our final project. It's a pleasure to interact with him.
- Is a great Instructor and goes above and beyond for the student's welfare. Brings different people from different sectors of the industry to teach students.
- · Guerry is an amazing professor, very engaging and friendly
- · Guerry is an excellent orator and knows a lot about his field.
- Prof. Guerry is one of the best and most humble course instructors here at Duke. He gave us the flexibility to choose our own projects as per our interests and he gave us the tools which will be helpful in our career. He was generous enough to bring us healthy food in every class and he always stressed on sustainability part in every aspect of life.
- · Guerry is extremely knowledgeable, communicative and attentive to his students. However, there was a lack of organization when it came to each week's class.
- The knowledge he has shared is very useful on a long term basis.
- · Amazing professor! Lots of knowledge and experience in this field.
- GG is very knowledgable and considerate. He did his best to give this lecture for the first time.
- The instructor tried his best. There is nothing wrong about the instructor. Just because the course was offered the first time, it required structure, continuity, and deliberate training in using LCA tools.
- Professor Guerry's class felt a bit unstructured, he is an excellent orator but could have worked more on the course content. The course felt heavily dependent on external speakers.
- Engaging Extremely well way of delivering Helpful and kept us in high spirit across the sem
- The professor has a ton of experience and he is always ready to share and help students.
- Prof. Grune is very smart and well knowledge in the IP world. He wants to teach his students to be critical thinkers.
- Dr. Grune is highly knowledgeable about the topic and makes the class very interactive. His passion for what he does is clearly observable. He is supportive, cares about his students, and is always there to help when needed. He is a lovely person and I am happy to have taken his class.
- Prof Grune taught the topics very well and explained the concepts in depth, kept the class engaging and fun.

#### 9 - Would you recommend this faculty member for a Pratt Teaching Award?

#### **Guerry Grune**

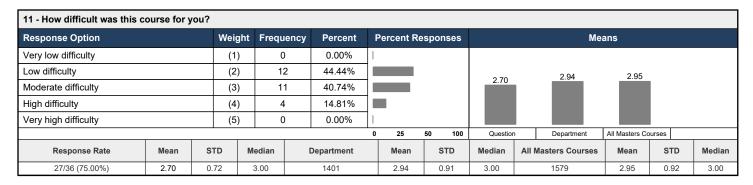
_											
Response Option		Weigh	t Frequer	ncy Percent	Percent Re	esponses		Me	ans		
Yes		(1)	19	73.08%			1.27	1.31	1.33		
No		(2)	7	26.92%			1121				
		Ý	,	,							
					0 25	50 100	Question	Department	All Masters Co	ourses	
Response Rate	Mean	STD	Median	Department	Mean	STD	Median	All Masters Courses	Mean	STD	Median
26/36 (72.22%)	1.27	0.45	1.00	1578	1.31	0.46	1.00	1751	1.33	0.47	1.00

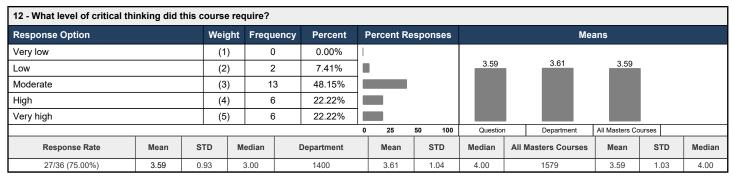
- He's an impeccable teacher and it was amazing working with him!
- He is always ready to support his students in every possible way. He even took us on a field trip to help us work on our project.
- I think Guerry Grune would be deserving of the Pratt Teaching Award in the future!
- Class is always engaging and he really cares about the students in his class.
- Great interaction with students. Considerate. Practical and meaningful projects in the class.
- · He is a wonderful professor with immense knowledge in his field.

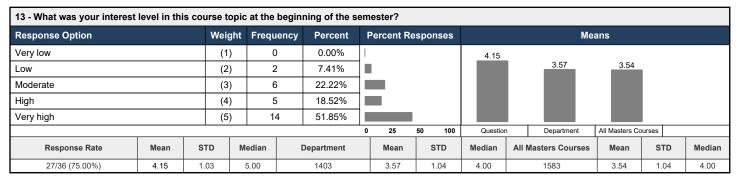
10 - Self-EvaluationHow ma	any hours p	er week, o	n aver	rage, did y	ou spend out	sid	e of sche	dul	led class	(includin	g lab	s) on this cours	e?		
Response Option		Weig	ght F	requency	Percent	P	ercent Re	esp	onses			Mea	ans		
3-6 hours per week		(1	)	20	74.07%										
6-9 hours per week		(2	)	3	11.11%		I								
9-12 hours per week		(3	)	3	11.11%		l					1.94	1.98		
12-15 hours per week		(4	)	1	3.70%					1.44					
15+ hours per week		(5	)	0	0.00%										
					•	0	25	50	100	Question	ı	Department	All Masters Co	ourses	
Response Rate	Mean	STD	Medi	ian	Department		Mean		STD	Median	All I	Masters Courses	Mean	STD	Median
27/36 (75.00%)	1.44	0.85	1.0	00	1392		1.94		1.02	2.00		1572	1.98	1.04	2.00

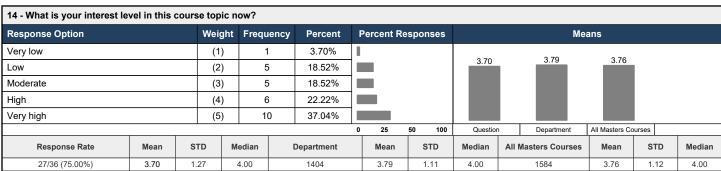
Course: EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*
Response Rate: 27/36 (75.00 %)



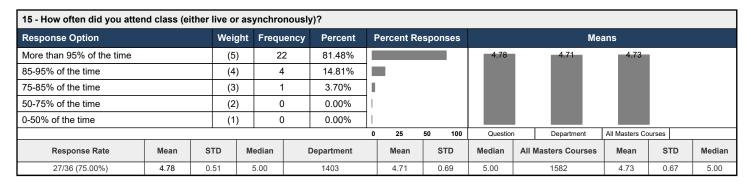






**Course:** EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*
Response Rate: 27/36 (75.00 %)



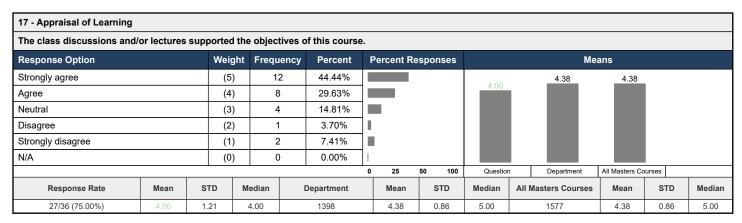
16 - What grade do you exp	ect to rece	ive in this	class	s?											
Response Option		Wei	ght	Frequency	Percent	Р	ercent R	esp	onses			Me	ans		
Α		(4	ł)	26	96.30%					4.00		3.88	3.86	1	
В		(3	3)	0	0.00%	1									
С		(2	2)	0	0.00%										
F		(1	)	0	0.00%										
Other		(0	))	1	3.70%										
						0	25	50	100	Question	1	Department	All Masters Co	ourses	
Response Rate	Mean	STD	Me	edian	Department		Mean		STD	Median	All I	Masters Courses	Mean	STD	Median
27/36 (75.00%)	4.00	0.00	4	.00	1401		3.88		0.34	4.00		1576	3.86	0.37	4.00

17 - Appraisal of Learning															
The readings supported th	e objective	s of this co	ourse												
Response Option		Wei	ght	Frequency	Percent	Per	rcent R	esį	oonses			Me	ans		
Strongly agree		(5	5)	9	33.33%					4.00		4.39	4.40	_	
Agree		(4	1)	10	37.04%					4.00					
Neutral		(3	3)	5	18.52%										
Disagree		(2	2)	2	7.41%										
Strongly disagree		(1	1)	0	0.00%	I									
N/A		(0	))	1	3.70%									l	
	_					0	25	50	100	Question	1	Department	All Masters Co	ourses	
Response Rate	Mean	STD	Me	dian	Department		Mean		STD	Median	All	Masters Courses	Mean	STD	Median
27/36 (75.00%)	4.00	0.94	4.	.00	1401		4.39	T	0.82	5.00		1579	4.40	0.80	5.00

The assignments and proj	ects suppoi	ted the c	bjecti	ves of this o	ourse.										
Response Option		w	eight	Frequency	Percent	Per	cent R	esp	onses			Me	ans		
Strongly agree			(5)	13	48.15%					4.30		4.40	4.40		
Agree			(4)	9	33.33%										
Neutral			(3)	5	18.52%										
Disagree			(2)	0	0.00%	1									
Strongly disagree			(1)	0	0.00%	1									
N/A			(0)	0	0.00%	1									
					•	0	25	50	100	Question	1	Department	All Masters Co	urses	
Response Rate	Mean	STD	M	edian	Department		Mean		STD	Median	All I	Masters Courses	Mean	STD	Median
27/36 (75.00%)	4.30	0.78		4.00	1390		4.40	+	0.87	5.00		1569	4.40	0.86	5.00

**Course:** EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*
Response Rate: 27/36 (75.00 %)



17 - Appraisal of Learning															
I would recommend this c	ourse to fut	ure stude	nts.												
Response Option		We	ight	Frequency	Percent	Per	cent R	esp	onses			Me	ans		
Strongly agree		(	(5)	10	37.04%							4.23	4.21		
Agree		(	4)	8	29.63%					3.78					
Neutral		(	(3)	4	14.81%										
Disagree		(	(2)	3	11.11%										
Strongly disagree		(	(1)	2	7.41%										
N/A		(	(0)	0	0.00%	1									
					•	0	25	50	100	Questio	n	Department	All Masters Co	ourses	_
Response Rate	Mean	STD	М	edian	Department		Mean		STD	Median	All	Masters Courses	Mean	STD	Median
27/36 (75.00%)	3.78	1.28		4.00	1392		4.23		1.06	5.00		1570	4.21	1.08	5.00

•••															
The evaluation method (e	xams, home	work, etc.)	) mat	ched the ol	jectives and o	conte	ent for the	he c	ourse.						
Response Option		Wei	ight	Frequency	Percent	Pe	rcent R	espo	onses			Me	ans		
Strongly agree		(5	5)	11	40.74%					4.19		4.28	4.28		
Agree		(4	4)	11	40.74%										
Neutral		(3	3)	4	14.81%										
Disagree		(2	2)	1	3.70%										
Strongly disagree		(1	1)	0	0.00%										
N/A		(0	0)	0	0.00%										
					•	0	25	50	100	Question	n	Department	All Masters Co	ourses	
Response Rate	Mean	STD	М	edian	Department		Mean		STD	Median	All	Masters Courses	Mean	STD	Median
27/36 (75.00%)	4.19	0.83	Τ.	4.00	1394		4.28		0.95	5.00		1572	4.28	0.95	5.00

**Course:** EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*

Response Rate: 27/36 (75.00 %)

#### 17 - Appraisal of Learning The evaluation method (exams, homeweork, etc.) for this course was fair. **Response Option** Weight Frequency Percent **Percent Responses** Strongly agree 51.85% (5)14 4.28 4.26 9 (4) 33.33% Agree Neutral (3)3 11.11% Disagree (2)1 3.70% П Strongly disagree (1) 0 0.00% N/A (0) 0 0.00% 100 Question All Masters Courses 25 50 Department STD Median STD Median All Masters Courses STD Median Response Rate Mean Mean Mean Department 27/36 (75.00%) 0.83 5.00 1387 4.28 0.96 5.00 1565 0.98 5.00 4.26

### 18 - Open-Ended QuestionsWhat parts of the class were most useful for you? Why?

Response Rate 12/36 (33.33%)

- The industry project and the guest lectures.
- The group project! I liked the group project I was assigned to.
- · LCA and patent analysis.
- I found the course project very interesting and how we got to apply various skills and critical thinking. I also really enjoyed learning about patents and IP. I also enjoyed the guest speakers.
- The LCA analysis software. Because it's something that I haven't encounter before and it's the trend of the current market.
- Getting access to the LCA tools Umberto, GaBi, etc.
- His recommendations on things that are useful in class and beyond. I got to visit conferences and got access to a lot of resources that I usually would not have.
- $\bullet$  Learning about LCA as every organization now wants to move towards sustainability
- 1. Industry-like experience through in-class projects 2. Projects from different domains of the industry to suit each one interest 3. Providing us with toolbox for LCA and even helped us gain handson experience 4. Spend time with each group to direct us 5. Guest lectures so many of them and relevant ones 6. Bringing us the experience of EVgo
- how to speed read a patent, Sarah and her knowledge about Duke library resources are super helpful.
- Being exposed to LCA tools. They are widely used in the industry and have vast utility.
- The topics about intellectual property and patent law were useful as they will have direct or indirect impact in the professional career sooner than later

### 19 - What parts of the class were least useful for you? Why?

Response Rate 11/36 (30.56%)

- Perhaps the amount of time wasted around different LCA tools could have been avoided. Also it felt a bit too about IP-Law than LCA or sustainability. I was expecting more sustainability specific elements.
- The rigorous focus on patents was not very useful since I studied it in my undergrad and also had experience with it at my prior workplace.
- The class lectures each week. There definitely needed to be more structure. Less outside speakers, and more lectures about the current sustainable product landscape, how LCA works, etc.
- · More details into patents.
- I am not sure.
- Maybe that would be the patent law part, because i don't know much about that part and don't have much idea of how to apply those idea into reality
- Not being trained on how to use the LCA tools; Speakers lacking subject matter knowledge and continuity.
- · Some guest lecturers
- Patents, as the product we had was already patented and didn't like this too much as it was repeated multiple times
- I would say the course would be more structured and the time of each class could be properly defined between guest lectures and concepts taught by the professor so that we are learning in a balanced format. Listening from industry prof while equally learning important concepts from Dr Grune
- The guest lectures were sometimes not related to the topics and the course structure and focused to the technical knowledge more than management aspect of the problem.

Course: EGRMGMT-590-08: ADV TOPICS IN ENG MGMT.EGRMGMT-590-08.

Instructor: Guerry Grune \*
Response Rate: 27/36 (75.00 %)

#### 20 - Please add any additional comments or suggestions for improving the learning experience in this course.

Response Rate

9/36 (25%)

- · Hopefully, the projects will start early in the next semester for this subject. I understand it was the first time this course was taught in the program.
- I am glad this course is being provided next semester however, the structure and content of the course definitely needs to be revisited! Guerry is great.
- N/a
- Push the agenda a little bit ahead and let each team to start their final project earlier to have enough time to revise.
- More help in learning Ica softwares that will help in getting students ready to perform Ica without struggling more.
- Duke should help this course to set up technical support for students working on the LCA tool.
- I think the guest speakers need to be vetted better and more guidance in what they should talk about. I found it to be unappealing to hear them mostly bragging about the journey or say things that are not in line with Duke's culture (i.e. one of the speakers said something along the line that there's no more glass ceiling for women, especially for the minorities but there's a reversed glass ceiling). I think not having a guest speaker is better than bringing someone without a clear structure and purpose of the presentation
- Provide additional assistance with the LCA tools. They can be time consuming to figure out on your own, which limits how much the students explore them. They have a lot of utility, and therefore assistance would encourage students to learn more.
- The class was too foucsed on patents rather that processes of sustainability. a more structured approach would be better for future sections where a balance is maintained.

Mean of Means Calculations	Mean	Department	All Masters Courses	
Appraisal of Learning	4.10	4.33	4.32	
Course and Instructor Quality	4.13	4.25	4.23	