It is an honor to be the College of Engineering and Science nominee for the 2019 University Senate Chair Award. Please find the data and details of my teaching, research, and service activities over the last five years below.

LIST OF COURSES TAUGHT AND THE OVERALL TEACHER EVALUATION FOR EACH COURSE

The list of courses and overall teaching evaluation for each course over the last five years are shown in the table below. My typical yearly schedule was to teach Numerical Methods (CMEN 425) to primarily juniors in the Fall, Mass Transport (CMEN 304) to seniors in the Winter, and Fluid Mechanics (CMEN 213) to sophomores in the Spring. The teacher evaluations over the last five years were fairly uniform across grade levels with an average of 3.85.

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Teacher Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2019</td>
<td>CMEN 213</td>
<td>Unit Operations – Design I (Fluid Mechanics)</td>
<td>TBD</td>
</tr>
<tr>
<td>Winter 2018-19</td>
<td>CMEN 304</td>
<td>Transport Phenomena (Mass Transport)</td>
<td>4.00</td>
</tr>
<tr>
<td>Fall 2018</td>
<td>CMEN 425</td>
<td>Numerical Methods for Chemical Engineers</td>
<td>3.93</td>
</tr>
<tr>
<td>Spring 2018</td>
<td>CMEN 213</td>
<td>Unit Operations – Design I (Fluid Mechanics)</td>
<td>3.62</td>
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<tr>
<td>Winter 2017-18</td>
<td>CMEN 304</td>
<td>Transport Phenomena (Mass Transport)</td>
<td>4.00</td>
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<tr>
<td>Fall 2017</td>
<td>CMEN 425</td>
<td>Numerical Methods for Chemical Engineers</td>
<td>4.00</td>
</tr>
<tr>
<td>Spring 2017</td>
<td>CMEN 213</td>
<td>Unit Operations – Design I (Fluid Mechanics)</td>
<td>3.74</td>
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<td>Winter 2016-17</td>
<td>CMEN 304</td>
<td>Transport Phenomena (Mass Transport)</td>
<td>3.93</td>
</tr>
<tr>
<td>Fall 2016</td>
<td>CMEN 425</td>
<td>Numerical Methods for Chemical Engineers</td>
<td>3.93</td>
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<tr>
<td>Spring 2016</td>
<td>CMEN 213</td>
<td>Unit Operations – Design I (Fluid Mechanics)</td>
<td>3.77</td>
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<tr>
<td>Winter 2015-16</td>
<td>CMEN 304</td>
<td>Transport Phenomena (Mass Transport)</td>
<td>3.92</td>
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<tr>
<td>Fall 2015</td>
<td>CMEN 425</td>
<td>Numerical Methods for Chemical Engineers</td>
<td>3.94</td>
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<td>Spring 2015</td>
<td>CMEN 213</td>
<td>Unit Operations – Design I (Fluid Mechanics)</td>
<td>3.71</td>
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<td>Winter 2014-15</td>
<td>CMEN 522</td>
<td>Advanced Thermodynamics</td>
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<tr>
<td>Fall 2014</td>
<td>CMEN 425</td>
<td>Numerical Methods for Chemical Engineers</td>
<td>3.67</td>
</tr>
<tr>
<td>5-year average</td>
<td></td>
<td></td>
<td>3.85</td>
</tr>
</tbody>
</table>

The following comments from the anonymous student-faculty evaluation provide first-hand accounts of elements and qualities that I try to incorporate into courses.

- Dr. Sherer is amazing! He stimulates interest in any subject. He tries to add additional thinking by comparing material in class to real world examples, which other teachers don’t do. He encourages questions to stimulate discussion, where other professors don’t want other discussions. He gives a lot of work including homework and a quiz every day. This set up helps me because the material is seen multiple times. The exams are hard, but they are appropriate to the material and reasonable. With the added work that holds a high value of the total grade, this system works well for people that work hard and it works well for the people that do well on tests. Dr. Sherer is always open for questions, and is in his office when he says he will be. He is open for criticism, and always asks for feedback on what would make his class more effective. He also gives great advise and tries to help us any way that he possibly can. He truly cares about us. He is an absolutely essential part of the success of chemical engineers from Louisiana Tech University. His pushing and encouraging are the main reason I decided to stick with the program.

- This class has been one of the best of my college career. The quality of the lectures is unbelievable; the Mass Transfer lectures are ones that rival the quality of Dr. Cicciarelli’s. Dr. Sherer is extremely organized.
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and outlines everything from the first day of class. The exams are reasonable for the material covered in class and the homework and quizzes directly match what was discussed in the lecture. Overall, this was an A+ experience. I am very fortunate to have taken this class with Dr. Sherer.

- Dr. Sherer is an excellent teacher who is well respected, shows concern for his students’ knowledge, and does well at relaying difficult-to-understand material. Dr. Sherer also does an exceptional job at making the assignments and exams as efficient in learning and testing knowledge as possible.

- This teacher is one of the best I’ve ever had. He’s always available in office hours and always willing to answer any questions. He was also very willing to work with a personal situation that came up for me, when not all of my teachers were, reducing the amount of stress that I had after missing a week of school. Cannot express how much I appreciate Dr. Sherer.

SELECTED LIST OF PUBLICATIONS, GRANTS, AND SIMILAR ACTIVITIES

In the past five years I had 12 peer-reviewed journal publications; 9 conference or symposium publications; 8 oral presentations at national meetings; 8 poster presentations at national meetings; and numerous oral and poster presentations at regional, state, and local meetings (not listed).

Peer-Reviewed Journal Publications


Journal impact factor: 5.649 (Ranking: 17/198 in Cancer Research)


Journal impact factor: 1.712 (Ranking: 27/212 in Health Policy)


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Journal impact factor: 10.755 (Ranking: 3/130 in Gastroenterology)


Journal impact factor: 3.027 (Ranking: 36/205 in Pharmaceutical Science)


Journal impact factor: 2.958 (Ranking: 28/252 in Pharmacology (medical))


Journal impact factor: 6.210 (Ranking: 7/130 in Gastroenterology)

Conference or Symposium Publications


*2016 ACG award recipient in the area of CRC prevention


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Oral Presentations at National Meetings


Sherer E, “Model predictive control of drug exposure enabled by real-time pharmacokinetics”, The sixth annual Indiana Clinical and Translational Sciences Institute (CTSI) symposium on disease and therapeutic response modeling, Indianapolis, IN, November 2016.


*2016 ACG award recipient in the area of CRC prevention


Poster Presentations at National Meetings


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Sherer E, “Application of a flipped classroom for teaching programming in a numerical methods course”, American Society of Engineering Education Summer School for Chemical Engineering Faculty, North Carolina State University, Raleigh, NC, August 2017.


Grants

I have one active grant.

9/2017 – 8/2020, Quantification of colonic neoplasia growth and impact on colonoscopy follow-up, National Institutes of Health (National Cancer Institute), $360,665.

It is notable that this is the only active grant at Louisiana Tech from the National Institutes of Health (NIH); it also represents the only NIH funding to a Louisiana Tech University PI/co-PI in the past 3 years.

SELECTED LIST OF COMMUNITY/UNIVERSITY SERVICE ACTIVITIES


I have served the university over the last five years as the Louisiana Region II Science and Engineering Fair Treasurer and Judge; as Sigma Xi Vice President; and by serving on eleven MS and PhD committees.

I have served the College of Engineering and Science over the last five years by being a Leadership Team Associate; serving on three chemical engineering tenure-track faculty search teams, two biomedical engineering tenure-track faculty search teams, and two statistics tenure-track faculty search teams; and judging for the Freshman Design Expo.

I have served chemical engineering program as the MS-CMEN coordinator since 2015 and the CMEN program chair since 2016. I am also the academic advisor for 20-30 chemical engineering students.