<table>
<thead>
<tr>
<th>Course:</th>
<th>20MTEN3012 001 - INTRO TO METALLURGY</th>
<th>Department:</th>
<th>20MTEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responsible Faculty:</td>
<td>Donglu Shi</td>
<td>Responses / Expected:</td>
<td>11 / 20 (55%)</td>
</tr>
</tbody>
</table>

**Survey Comparisons**

| Q1 | The course was well planned. | 0 0 0 5 6 | 11 | 4.5 | 4.6 | 5 5 4 5 .5 | 84 | 4.1 | 4.2 | 75 | 4.6K | 4.1 | 4.3 | 70 |
| Q2 | The professor was | 0 0 0 5 6 | 11 | 4.5 | 4.6 | 5 5 4 5 .5 | 84 | 4.1 | 4.2 | 75 | 4.6K | 4.1 | 4.3 | 70 |


**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)
### Q13
Approachable to discuss problems related to the course.

<table>
<thead>
<tr>
<th>VP</th>
<th>P</th>
<th>A</th>
<th>VG</th>
<th>E</th>
<th>N</th>
<th>Mean</th>
<th>Grp Mean</th>
<th>Med</th>
<th>Mode</th>
<th>Low</th>
<th>High</th>
<th>Std Dev</th>
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<tr>
<td>84</td>
<td>4.2</td>
<td>4.4</td>
<td>81</td>
<td>4.6K</td>
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### Q14
Class assignments and exams were relevant to the course material.

<table>
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<th>VP</th>
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<th>A</th>
<th>VG</th>
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<td>4.4</td>
<td>81</td>
<td>4.6K</td>
<td>4.3</td>
<td>4.5</td>
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### Q15
The grading was fair.

<table>
<thead>
<tr>
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<td>82</td>
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<td>4.4</td>
<td>81</td>
<td>4.6K</td>
<td>4.2</td>
<td>4.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

**Responses:**

- **SD:** Strongly Disagree = 1
- **D:** Disagree = 2
- **NO:** No Opinion/Neutral = 3
- **A:** Agree = 4
- **SA:** Strongly Agree = 5

**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)

--- **Survey Comparisons ---**

<table>
<thead>
<tr>
<th>ABET General Questions</th>
<th>Donglu Shi</th>
<th>20MTEN</th>
<th>All</th>
</tr>
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<tbody>
<tr>
<td>General</td>
<td>Individual</td>
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</tr>
<tr>
<td></td>
<td>VP</td>
<td>P</td>
<td>A</td>
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<td>Q16 Overall, how do you rate this course?</td>
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<td>Q17 Overall, how do you rate this professor?</td>
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</tbody>
</table>

**Responses:**

- **VP:** Very Poor = 1
- **P:** Poor = 2
- **A:** Average = 3
- **VG:** Very Good = 4
- **E:** Excellent = 5

**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)

--- Q18 - Please enter any comments about the professor in the box below: ---

**Faculty:** Donglu Shi

**Response Rate:** 45.45% (5 of 11)

1. n/a
2. It was a great materials course, I enjoyed coming to class. Dr. Shi is very knowledgeable on the subject and is good at communicating difficult concepts in simple terms that are easy to understand.
3. I think a lot of time in this course was spent on general materials concepts such as stress-strain curves, miller indices, and calculations for general material properties. I think these are fundamental and should definitely be covered, however I feel this also took away from the metallurgical concepts which were introduced later on. More time needs to be spent on metallurgy. Also I think better visuals such as videos and pictures should be used to reinforce these concepts.
4. I really enjoyed coming to class and the lectures.
5. Great Prof.
**Q16** Overall, how do you rate this course?
- **Responses:**
  - **Shi, Donglu:**
    - **20MTEN3012 - 001**
    - **Survey Comparisons**
      - **Mean:** 4.8
      - **20MTEN:**
        - **Responses:**
          - **Mean:** 4.8
          - **Pct:** 90

**Q17** Overall, how do you rate this professor?
- **Responses:**
  - **Shi, Donglu:**
    - **20MTEN3012 - 001**
    - **Survey Comparisons**
      - **Mean:** 5.0
      - **20MTEN:**
        - **Responses:**
          - **Mean:** 6.8
          - **Pct:** 95

**Q18** - Please enter any comments about the professor in the box below:
- **Faculty:** Shi, Donglu
- **Response Rate:** 100.00% (5 of 5)

1. Professor Shi has made this class both educational and entertaining. It is because of him that I would consider continuing on and pursue a masters degree in Materials Engineering. I believe that all BME students should take this class, in order to better understand the materials they're working with.
2. Professor Shi is a great teacher. It is very obvious from the start that he cares a lot about the material he's teaching, and, more importantly, that his students are learning. I actually enjoy sitting down during his lectures which is a rare thing for me. Outstanding Professor.
3. Professor Shi is very knowledgeable and I look forward to taking more classes with him as a result of this class. he is very passionate about materials engineering and his class reflects that.
4. Overall, this was a solid course and Professor Shi is great! He was very prepared for every class, and our homeworks and exams reflected what we were discussing in lectures. I would definitely recommend this class to future engineers, and I am looking forward to taking his Physical Properties of Solids class next fall.
5. Dr. Shi is truly one of my favorite professors. He is so enthusiastic about the class and any other projects you come to him with help. He is very easy going yet balanced.
6. Infinite amounts of respect.
I really like Dr. Shi. He's a great professor and explains everything clearly. I love taking his classes. I just wished he'd offer more graduate level classes.

Course is too easy. Make it little more hard and please don't conduct open books tests!
### ABET General Questions
#### General

**Q1**... apply my knowledge of math, science, and/or engineering  
0 0 0 1 1 2 4.5 4.5 4 5 50 78 4.4 61 5K 4.1 74

**Q2**... design and conduct experiments  
0 0 1 0 1 2 4.0 4 3.5 3 5 1 78 3.8 72 5K 3.6 67

**Q3**... analyze and interpret data  
0 0 1 0 1 2 4.0 4 3.5 3 5 1 78 4.1 39 5K 4.0 41

**Q4**... design a system, component, or process to meet desired needs within realistic constraints  
0 0 1 0 1 2 4.0 4 3.5 3 5 1 78 3.9 67 5K 3.9 45

**Q5**... work as a team member  
0 0 0 0 1 2 4.0 4 3.5 3 5 1 78 3.6 83 5K 3.8 55

**Q6**... identify, formulate, and solve engineering problems  
0 0 0 1 1 2 4.5 4.5 4 5 50 78 4.2 72 5K 4.1 77

**Q7**... understand professional and ethical responsibility  
0 0 0 0 1 2 4.0 4 3.5 3 5 1 78 4.1 44 5K 3.7 60

**Q8**... communicate (orally) effectively  
0 0 1 0 1 2 4.0 4 3.5 3 5 1 78 3.9 61 5K 3.6 64

**Q9**... communicate (written) effectively  
0 0 0 1 1 2 4.0 4 3.5 3 5 1 78 4.2 17 5K 3.9 48

**Q10**... understand the impact of engineering solutions in a broad context  
0 0 1 0 1 2 5.0 5 5 5 5 0 77 4.4 89 5K 4.0 98

**Q11**... use techniques, skills or modern engineering tools necessary for engineering practice  
0 0 0 0 2 2 5.0 5 5 5 5 0 77 4.3 89 5K 4.1 97

**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)

### Survey Comparisons

#### Individual

**Shi, Donglu**

**Q12** The course was well planned.  
0 0 0 1 2 2 5.0 5 5 5 5 0 78 4.2 94 5K 4.0 97

**Q13** The professor was approachable to discuss problems related to the course.  
0 0 0 2 2 5.0 5 5 5 5 0 77 4.4 89 5K 4.1 95

**Q14** Class assignments and exams were relevant to the course material.  
0 0 0 2 5.0 5 5 5 5 0 78 4.4 89 5K 4.3 96

**Q15** The grading was fair.  
0 0 0 2 2 5.0 5 5 5 5 0 78 4.3 94 5K 4.1 97

**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)

### ABET General Questions
#### General

**Q16** Overall, how do you rate this course?  
0 0 0 0 2 2 5.0 5 5 5 5 0 78 4.2 94 5K 3.9 97

**Q17** Overall, how do you rate this professor?  
0 0 0 0 2 2 5.0 5 5 5 5 0 78 4.3 94 5K 4.0 96

**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)
### ABET sample a thru k

**General**

| Q1 | ... apply my knowledge of math, science, and/or engineering | 0 0 0 2 3 5 4.6 5 5 4 5 | 0.49 | 84 | 4.5 | 55 | 4.1K | 4.1 | 75 |
| Q2 | ... design and conduct experiments | 0 0 5 0 0 5 3.0 3 3 3 3 | 0.00 | 83 | 3.6 | 10 | 4.1K | 3.6 | 17 |
| Q3 | ... analyze and interpret data | 0 0 0 0 2 3 4.4 4 4 4 5 | 0.49 | 82 | 4.3 | 45 | 4.1K | 4.1 | 60 |
| Q4 | ... design a system, component, or process to meet desired needs within realistic constraints | 0 2 2 1 5 3.8 4 3.4 3 5 | 0.75 | 84 | 4.1 | 25 | 4.1K | 3.9 | 33 |
| Q5 | ... work as a team member | 1 3 1 0 5 3.0 3 3 3 2 4 | 0.63 | 83 | 4.0 | 5 | 4.1K | 4.0 | 13 |
| Q6 | ... identify, formulate, and solve engineering problems | 0 0 0 3 2 5 4.4 4 4 4 5 | 0.49 | 84 | 4.4 | 35 | 4.1K | 4.1 | 62 |
| Q7 | ... understand professional and ethical responsibility | 0 0 4 1 0 5 3.2 3 3 3 3 | 0.40 | 84 | 4.0 | 15 | 4.1K | 3.8 | 15 |
| Q8 | ... communicate (orally) effectively | 0 0 3 1 1 5 3.6 3 3 3 5 | 0.80 | 82 | 3.8 | 30 | 4.1K | 3.7 | 35 |
| Q9 | ... communicate (written) effectively | 0 0 2 2 1 5 3.8 4 3.4 3 5 | 0.75 | 82 | 4.2 | 15 | 4.1K | 3.9 | 35 |
| Q10 | ... understand the impact of engineering solutions in a broad context | 0 0 0 0 0 1 5 4.2 4 4 4 5 | 0.40 | 80 | 4.4 | 25 | 4.1K | 4.0 | 52 |
| Q11 | ... use techniques, skills or modern engineering tools necessary for engineering practice | 0 0 0 0 4 1 5 4.2 4 4 4 5 | 0.40 | 82 | 4.3 | 35 | 4.1K | 4.1 | 45 |


--- Survey Comparisons ---

<table>
<thead>
<tr>
<th>ABET General Questions</th>
<th>Shi, Donglu</th>
<th>--- Survey Comparisons ---</th>
</tr>
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<tbody>
<tr>
<td><strong>General</strong></td>
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<tr>
<td>Q12 The course was well planned.</td>
<td>0 0 0 2 3 5 4.6 5 5 4 5</td>
<td>0.49</td>
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<tr>
<td>Q13 The professor was approachable to discuss problems related to the course.</td>
<td>0 0 0 1 4 5 4.8 5 5 5 4</td>
<td>0.40</td>
</tr>
<tr>
<td>Q14 Class assignments and exams were relevant to the course material.</td>
<td>0 0 0 1 4 5 4.8 5 5 4 5</td>
<td>0.40</td>
</tr>
<tr>
<td>Q15 The grading was fair.</td>
<td>0 0 0 1 4 5 4.8 5 5 4 5</td>
<td>0.40</td>
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--- Survey Comparisons ---

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<td>Q16 Overall, how do you rate this course?</td>
<td>0 0 0 1 4 5 4.8 5 5 4 5</td>
<td>0.40</td>
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<tr>
<td>Q17 Overall, how do you rate this professor?</td>
<td>0 0 0 1 4 5 4.8 5 5 4 5</td>
<td>0.40</td>
</tr>
</tbody>
</table>


--- Survey Comparisons ---

Q18 - Please enter any comments about the professor in the box below:

**Faculty:** Shi, Donglu

**Response Rate:** 60.00% (3 of 5)

1. Professor Shi was very enthusiastic and motivated to help his students learn. The class was taken by mostly chemical engineering students, as a technical elective. Professor Shi made a great effort to draw connections between CHE courses and material sciences. His class has helped me better understand the content that I handle at my co-op as well.

2. He has a high appreciation of the material and is very approachable outside of class. My one suggestion is that he should take a break in between each topic to see if there are any questions (most of the time he moves too fast through the material).

3. Dr. Shi was very organized and was very familiar with the material.
Q18 - Please enter any comments about the professor in the box below:

Faculty: Shi, Donglu
Response Rate: 75.00% (3 of 4)

1. I loved everything about this course thank you so much Dr. Shi.
2. The professor did a great job of teaching the material in a logical and easy to comprehend way. My only suggestions would be to add a small amount of assignments such as problem sets to help deeps the understanding, and to provide suggested reading from the course textbook which we did not actually use.
3. N/A
Q12. The course was well planned.

Q13. The professor was approachable to discuss problems related to the course.

Q14. Class assignments and exams were relevant to the course material.

Q15. The grading was fair.

Q16. Overall, how do you rate this course?

Q17. Overall, how do you rate this professor?

Q18 - Please enter any comments about the professor in the box below:

Faculty: Shi, Donglu

Response Rate: 22.22% (2 of 9)

1. I understood all the relevant topic and the professor was approachable to discuss my doubts and explained everything really well...Great class

2. He is very knowledgeable and teaches really well with lots of interaction in the class.
### ABET General Questions

#### General

**Q12** The course was well planned.
- **Responses**
  - SD: 0
  - D: 0
  - NO: 1
  - A: 2
  - SA: 0
  - N: 5
  - Mean: 4.6
  - Med: 5
  - Mode: 5
  - Low: 3
  - High: 5
- **Pct Rnk:** 40
- **Score:** 3.8
- **Rank:** 75

**Q13** The professor was approachable to discuss problems related to the course.
- **Responses**
  - SD: 0
  - D: 1
  - NO: 0
  - A: 2
  - SA: 0
  - N: 5
  - Mean: 4.8
  - Med: 5
  - Mode: 5
  - Low: 4
  - High: 5
- **Pct Rnk:** 42
- **Score:** 3.5
- **Rank:** 75

**Q14** Class assignments and exams were relevant to the course material.
- **Responses**
  - SD: 0
  - D: 1
  - NO: 0
  - A: 2
  - SA: 0
  - N: 5
  - Mean: 4.3
  - Med: 4.5
  - Mode: 5
  - Low: 4
  - High: 5
- **Pct Rnk:** 75
- **Score:** 3.5
- **Rank:** 75

**Q15** The grading was fair.
- **Responses**
  - SD: 0
  - D: 0
  - NO: 1
  - A: 2
  - SA: 0
  - N: 5
  - Mean: 4.0
  - Med: 4.1
  - Mode: 5
  - Low: 3
  - High: 5
- **Pct Rnk:** 40
- **Score:** 3.5
- **Rank:** 75

### ABET General Questions

#### General

**Q16** Overall, how do you rate this course?
- **Responses**
  - VP: 4
  - P: 5
  - A: 5
  - VG: 5
  - E: 5
  - N: 5
  - Mean: 4.6
  - Med: 5
  - Mode: 5
  - Low: 4
  - High: 5
  - Std Dev: .50
- **Pct Rnk:** 37
- **Score:** 3.7
- **Rank:** 92

**Q17** Overall, how do you rate this professor?
- **Responses**
  - VP: 0
  - P: 0
  - A: 1
  - VG: 9
  - E: 5
  - N: 5
  - Mean: 4.9
  - Med: 5
  - Mode: 5
  - Low: 4
  - High: 5
  - Std Dev: .31
- **Pct Rnk:** 37
- **Score:** 3.7
- **Rank:** 75

### ABET General Questions

#### General

**Q18** Please enter any comments about the professor in the box below:
- **Faculty:** Shi, Donglu
- **Response Rate:** 44.44% (4 of 9)

1. Well taught class that was technical without being overwhelming.
2. Shi is a very engaging professor. His old school way of writing notes on the board makes it much easier to learn. He make me excited to become an engineer.
3. I enjoy the fact that the professor relates the material taught in class to real world applications through examples and demonstrations.
4. Dr. Shi is a wonderful professor. He really knows how to explain tough topics to students. His teaching abilities are astounding and his knowledge of the subject is vast. There was no question that could stump him, even by the smartest graduate student in the class. Exams were very fair and recitations very helpful. I highly recommend Dr. Shi!
### ABET General Questions

<table>
<thead>
<tr>
<th>Question</th>
<th>Responses</th>
<th>Individual</th>
<th>20MTEN</th>
<th>All</th>
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<tr>
<td>SD</td>
<td>D</td>
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<td>A</td>
<td>SA</td>
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<tr>
<td>Q1</td>
<td>... apply my knowledge of math, science, and/or engineering</td>
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<td>.50</td>
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<td>Q2</td>
<td>... design and conduct experiments</td>
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<tr>
<th>Question</th>
<th>Responses</th>
<th>Individual</th>
<th>20MTEN</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD</td>
<td>P</td>
<td>A</td>
<td>VG</td>
<td>E</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>----</td>
<td>---</td>
</tr>
<tr>
<td>Q16</td>
<td>Overall, how do you rate this course?</td>
<td>0 0 0 1 2 4.5 4.5 4.5 4 5</td>
<td>.50</td>
<td>8.4</td>
</tr>
<tr>
<td>Q17</td>
<td>Overall, how do you rate this professor?</td>
<td>0 0 0 0 2 5.0 5 5 5 5</td>
<td>0</td>
<td>8.4</td>
</tr>
</tbody>
</table>


**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)

### Q18 - Please enter any comments about the professor in the box below:

**Faculty:** Shi, Donglu

**Response Rate:** 50.00% (1 of 2)

1 Professor very enthusiastic about the subject. Helped me broaden my mind about what jobs I might go into after graduation.
### Course: 20MTEN415 401 - PHYS MET II  
#### Responsible Faculty: Donglu Shi

#### Department: 20MTEN  
**Responses / Expected:** 2 / 9 (22.22%)

#### ABET General Questions

**General**

<table>
<thead>
<tr>
<th>Q1</th>
<th>... apply my knowledge of math, science, and/or engineering</th>
<th>Responses</th>
<th>20MTEN</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>3.35</td>
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</tbody>
</table>

**ABET General Questions**

**Shi, Donglu**

<table>
<thead>
<tr>
<th>Q12</th>
<th>The course was well planned.</th>
<th>Responses</th>
<th>20MTEN</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

#### ABET Sample a thru k

**General**

<table>
<thead>
<tr>
<th>Q20</th>
<th>... use techniques, skills or modern engineering tools necessary for engineering practice</th>
<th>Responses</th>
<th>20MTEN</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Responses:**  
- **SD:** Strongly Disagree  
- **D:** Disagree  
- **NO:** No Opinion/Neutral  
- **A:** Agree  
- **SA:** Strongly Agree  
  
**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)

#### ABET Sample a thru k

**General**

<table>
<thead>
<tr>
<th>Q15</th>
<th>The grading was fair.</th>
<th>Responses</th>
<th>20MTEN</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>4</td>
</tr>
</tbody>
</table>

**Responses:**  
- **VP:** Very Poor  
- **P:** Poor  
- **A:** Average  
- **VG:** Very Good  
- **E:** Excellent  
  
**Pct Rnk:** Percentile Rank (100 is best, calculated vs. precise Mean)
Q18 - Please enter any comments about the professor in the box below:

Faculty: Shi, Donglu

Response Rate: 66.67% (2 of 3)

Professor Shi is very thorough in all of his instructions. He provides a repetitive summary at the beginning of each lecture over the previous material. He also tries to engage us in discussions relating to the problems he presents in designing of specific metallic systems. The only method for improvement I might suggest is to go a bit more quickly through the basic material so that all points of the curriculum can be addressed.

2 Don't spend so much time on Nucleation and growth and give a few homework assignments so all of our grade isn't just two tests.
Q5 - Please enter any comments about the course in the box below:

Response Rate: 100.00% (7 of 7)

1. n/a
2. The topics of diffusion and kinetics were excellently explained in terms of materials science which made it very relevant.
3. The course was good. There was a lot of repeating of previous courses, but I liked the review.
4. The course was well planned and organized.
5. The course had underclassmen that did not have the prerequisites needed to take the course, which made some topics that the professor was covering seem dull and repetitive.
6. I'd suggest adding assignments to the course, not just grading based off of two tests.
7. Excellent course

Q6 - How do you rate this professor?

Shi, Donglu

Response Rate: 100.00% (7 of 7)

1. n/a
2. Prof. Shi is always approachable and did a very good job teaching this material.
3. Makes sure everyone understands what is going on.
4. I think that this professor could be more personable with the class. He has had most of us in class before, and does not know our names.
5. Excellent professor.
6. Dr. Shi was always well prepared, and available for questions.
7. Dr Shi is an amazing professor and I've relished every class I've had with him.