

# WUSTL Course Evaluations

5/31/2016

**Title of Course:** Conduction and Convection Heat Transfer

**Course:** E37 5403                      **Section:** 01

**Semester:** Spring 2016

**Instructors:** Michael Wendl (Instructor)

**Completed Evaluations:** 13 of 19 (68%)

**Scoring Key**

**Bold** - Score

(S) - SEAS Average Score For the Template

(D) - Department's Average Score For the Template

(M) - Median Score For the Question

**Course Section Requirements:**

Number of Quizzes	n/a
Number of Examinations	n/a
Number of short papers (1-5pgs)	n/a
Number of long papers (6 +pgs)	n/a
Number of homework assignments	n/a
Number of individual projects	n/a
Number of group projects	n/a
Number of oral presentations	n/a
Was attendance required?	No
Was class participation required?	No
Were take home exams given?	No

## Engineering

Course Administration (Michael Wendl - Instructor)

**Was a course syllabus or a course information sheet distributed or available online?**

(blank)	Yes	No
0 (0.00%)	13 (100.00%)	0 (0.00%)

**Did the syllabus explain the content and administration of the course (e.g., office hours, grading)?**

(blank)	Yes	No	N/A
0 (0.00%)	13 (100.00%)	0 (0.00%)	0 (0.00%)

**6.38**

**In retrospect, the syllabus was an accurate reflection of how the course was actually taught.**

(S) 6.11 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D) 6.23 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	3 (23.08%)	8 (61.54%)	0 (0.00%)
(M) 7.00									

**Early in the semester, did your professor explain the expectations for academic integrity?**

(blank)	Yes	No
0 (0.00%)	13 (100.00%)	0 (0.00%)



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<b>6.85</b>		<b>Instructor explained the course material so that you could understand it.</b>							
(S)	5.63 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D)	5.85 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	11 (84.62%)
(M)	7.00								

<b>6.75</b>		<b>Overall rating for teaching quality.</b>							
(S)	5.68 of 5079	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D)	5.84 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	10 (76.92%)
(M)	7.00								

Course Materials and Assignments (Michael Wendl - Instructor)
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<b>6.69</b>		<b>Textbooks/readings complemented the lectures.</b>								
(S)	5.64 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D)	6.06 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	2 (15.38%)	10 (76.92%)	0 (0.00%)
(M)	7.00									

<b>6.69</b>		<b>Textbooks/readings were useful.</b>								
(S)	5.46 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D)	5.89 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	2 (15.38%)	10 (76.92%)	0 (0.00%)
(M)	7.00									

<b>6.69</b>		<b>Assigned homeworks were helpful and relevant to the course.</b>								
(S)	6.04 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D)	6.14 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	2 (15.38%)	10 (76.92%)	0 (0.00%)
(M)	7.00									

<b>6.69</b>		<b>There was reasonable time to complete assignments.</b>								
(S)	6.07 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D)	6.27 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	2 (15.38%)	10 (76.92%)	0 (0.00%)
(M)	7.00									

<b>6.31</b>		<b>Assignments were returned within a reasonable period of time.</b>								
(S)	5.73 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D)	5.81 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	4 (30.77%)	7 (53.85%)	0 (0.00%)
(M)	7.00									



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## Exams and Grade (Michael Wendl - Instructor)

### 6.69 Exams reflected material taught.

(S) 5.91 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D) 6.25 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	2 (15.38%)	10 (76.92%)	0 (0.00%)
(M) 7.00									

### 6.85 Adequate time was given to complete exams.

(S) 5.92 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D) 6.10 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	11 (84.62%)	0 (0.00%)
(M) 7.00									

### Expected grade for this course.

(blank)	A	B	C	D	F	P
0 (0.00%)	12 (92.31%)	1 (7.69%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

### 6.54 Your grades to this point accurately reflect your understanding of the material

(S) 5.66 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.78 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	1 (7.69%)	10 (76.92%)
(M) 7.00								

### 6.77 The grading system was consistent and equitable.

(S) 5.85 of 5079	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 6.00 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	11 (84.62%)
(M) 7.00								

## Overall (NOT Instructor Specific)

### About how many hours per week did you spend on this course outside of class?

(blank)	0	1-3	4-6	7-9	10-12	13-15	Over 15
0 (0.00%)	0 (0.00%)	4 (30.77%)	4 (30.77%)	3 (23.08%)	2 (15.38%)	0 (0.00%)	0 (0.00%)

### What percentage of the lectures did you attend?

(blank)	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	3 (23.08%)	9 (69.23%)

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**6.77 You would recommend this course to others.**

(S) 5.55 of 5078	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.56 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	11 (84.62%)
(M) 7.00								

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**6.77 Overall satisfaction with the course.**

(S) 5.53 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.66 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	11 (84.62%)
(M) 7.00								

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**6.75 The course enhanced your ability to apply knowledge of mathematics, science, and engineering.**

(S) 5.77 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 6.00 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	10 (76.92%)
(M) 7.00								

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**6.50 The course enhanced your ability to design and conduct experiments and to analyze and interpret data.**

(S) 5.32 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.68 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	1 (7.69%)	1 (7.69%)	9 (69.23%)
(M) 7.00								

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**6.50 The course enhanced your ability to design a system, component, or process to meet desired needs.**

(S) 5.51 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.70 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	0 (0.00%)	3 (23.08%)	8 (61.54%)
(M) 7.00								

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**6.50 The course enhanced your ability to function on multidisciplinary teams.**

(S) 5.16 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.42 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	2 (15.38%)	8 (61.54%)
(M) 7.00								

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**6.83 The course enhanced your ability to identify, formulate, and solve engineering problems.**

(S) 5.63 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.91 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	10 (76.92%)
(M) 7.00								

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**6.55 The course enhanced your ability to understand professional and ethical responsibility.**

(S) 4.94 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.08 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (7.69%)	0 (0.00%)	2 (15.38%)	8 (61.54%)
(M) 7.00								

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<b>6.82</b>		<b>The course enhanced your ability to communicate effectively.</b>							
(S)	5.15 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D)	5.43 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	9 (69.23%)
(M)	7.00								

<b>6.83</b>		<b>The course enhanced your ability to understand the impact of engineering in a global and societal context.</b>							
(S)	5.02 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D)	5.29 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	10 (76.92%)
(M)	7.00								

<b>6.83</b>		<b>The course enhanced your ability to recognize the need for and to engage in life-long learning.</b>							
(S)	5.34 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D)	5.50 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	10 (76.92%)
(M)	7.00								

<b>6.55</b>		<b>The course enhanced your ability to understand contemporary social issues.</b>							
(S)	4.50 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D)	4.65 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	1 (7.69%)	8 (61.54%)
(M)	7.00								

<b>6.83</b>		<b>The course enhanced your ability to use the techniques, skills and modern engineering tools necessary for engineering practice.</b>							
(S)	5.70 of 5078	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D)	6.01 of 634	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (15.38%)	10 (76.92%)
(M)	7.00								

Course Administration (Michael Wendl - Instructor)

Please elaborate if you felt the course did NOT match the course catalog description.

Instructor (Michael Wendl - Instructor)

Please elaborate if you felt the material was NOT covered at a reasonable pace.

Course Materials and Assignments (Michael Wendl - Instructor)

Please elaborate if you felt the textbooks/readings were NOT useful.

TA and Recitation (Michael Wendl - Instructor)

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**Please comment on the effectiveness of the TA.**

07 Never see TA

**Please comment on the effectiveness of the recitation section**

Exams and Grade (Michael Wendl - Instructor)

**Please elaborate if you felt the grading system was NOT consistent and equitable.**

Overall

**Any comments on why you did or did not attend lecture?**

01 Had to travel for work and was sick during one of the classes.

Comments (Michael Wendl - Instructor)

**What did you like most about this course?**

- 00 I like how knowledgeable instructor was. At the same time he explain complicated material in easy fashion so that student could understand better.
- 02 The material presented in the book/notes is incredibly well organized and helpful.
- 04 The course content was awesome. It's quite different from undergraduate heat transfer, but that is not necessarily a bad thing.
- 11 This was one of the best classes I've taken in my academic life. Especially the textbook written by Prof. Wendl was a big help. It's the most readable textbook I've ever used, but it still covers all the important topics in heat transfer. The book really helps the reader understand the theory behind every equation, which I think is critical at graduate level of studying.

**What did you like the most about the professor/instructor?**

- 00 Again how knowledgeable he was and how good of a teacher he was.
- 02 He does a great job of explaining all of the material step by step but still at a steady pace and is very passionate about the work.
- 03 Enthusiam, explanation, pace.
- 04 Professor Wendl is amazing. He cares about the students, about engineering, about life-long learning, and about heat transfer. Honestly, I have never seen a professor so perfectly explain problems and solutions the way Professor Wendl does. The only comparison I can make is to Professor Hasting, who obv is the best undergraduate professor anyone has. Professor Wendl not only teaches the material extremely well, but is also just a great mentor for us future engineers, whether we will work in industry or in research. He often just talks about everyday science and stuff in a way that relates to the course and to our lives. Often, a teacher's impressive resume does not indicate that they will be good teachers, but in this case, he is amazing.
- 11 Prof. Wendl is very passionate about the subject and about teaching, which made going to the lectures enjoyable. He is very approachable and always willing to answer questions.

**How could this course improve?**

- 00 At middle of semester he went into too much detail about solving long long one specific algebra problem. He should let student read about that specific problem instead of spending entire 2 class time solving that one specific algebra problem.
- 04 Perhaps it can be moved to a room with larger desks.

**How could the professor/instructor improve?**

- 00 I like the way he teaches now.



04 N/A

**What would you tell another student who asked you to describe this course?**

00 You are missing out so much not taking this course.

02 It does a great job of applying more detailed mathematical approaches to solving problems and the professor explains the entire process very well. Better math instruction than I have gotten in any actual math course.

03 Good. Starts at fundamentals; discusses various applications. Almost an applied mathematics course. Less time spent on phenomenological understanding (but these concepts should be established from undergrad).

04 You learn about everything you should be learning about.

**Have you observed any violations of academic integrity (e.g., cheating) in this course? If so, do NOT list the names of student(s) involved; only describe the violation that you observed.**

**Any additional comments?**

00 He is one of the best professor at Washu. I hope more students to take his course , develop the love for engineering.

04 Give Dr. Wendl a raise :)

Classroom Environment

**Please rate how well the instructor promoted an inclusive learning environment with regard to the diversity of student personal backgrounds and identities. Please enter just the number on a scale of 1 to 7 where 1 is extremely negative and 7 is extremely positive.**

01 7

02 7

04 7

**Where relevant, please give specific examples to explain your answer above.**