

# WUSTL Course Evaluations

6/2/2014

**Title of Course:** FLUID MECHANICS

**Course:** T17 3700

**Section:** 01

**Semester:** Spring 2014

**Instructors:** Michael Wendl (Instructor)

**Completed Evaluations:** 17 of 63 (27%)

**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%)	17 (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%)	17 (100.00%)	0 (0.00%)	0 (0.00%)

**6.59**

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

(S) 6.07 of 4309

(D) 5.79 of 78

(M) 7.00

(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.88%)	0 (0.00%)	4 (23.53%)	12 (70.59%)	0 (0.00%)

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

(blank)	Yes	No
0 (0.00%)	17 (100.00%)	0 (0.00%)

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**6.53 The course matched the course catalog description.**

(S) 6.13 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.89 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.88%)	0 (0.00%)	5 (29.41%)	11 (64.71%)
(M) 7.00								

Instructor (Michael Wendl - Instructor)

**5.76 Instructor made the course interesting.**

(S) 5.29 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 4.97 of 78	0 (0.00%)	0 (0.00%)	1 (5.88%)	1 (5.88%)	0 (0.00%)	4 (23.53%)	4 (23.53%)	7 (41.18%)
(M) 6.00								

**6.41 Instructor was enthusiastic about the course.**

(S) 5.91 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.52 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (11.76%)	0 (0.00%)	4 (23.53%)	11 (64.71%)
(M) 7.00								

**5.94 The material was covered at a reasonable pace.**

(S) 5.70 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.20 of 78	0 (0.00%)	0 (0.00%)	1 (5.88%)	0 (0.00%)	1 (5.88%)	2 (11.76%)	6 (35.29%)	7 (41.18%)
(M) 6.00								

**5.06 Instructor was available to answer questions (through office hours, email, etc.).**

(S) 5.92 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.20 of 78	0 (0.00%)	1 (5.88%)	1 (5.88%)	1 (5.88%)	3 (17.65%)	3 (17.65%)	1 (5.88%)	6 (35.29%)
(M) 5.00								

**6.65 Instructor was well-organized and prepared for class.**

(S) 5.93 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.56 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.88%)	4 (23.53%)	12 (70.59%)
(M) 7.00								





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## Exams and Grade (Michael Wendl - Instructor)

### 6.35 Exams reflected material taught.

(S) 5.86 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D) 5.83 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (17.65%)	5 (29.41%)	9 (52.94%)	0 (0.00%)
(M) 7.00									

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

(S) 5.71 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree	N/A
(D) 5.70 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.88%)	1 (5.88%)	8 (47.06%)	7 (41.18%)	0 (0.00%)
(M) 6.00									

### Expected grade for this course.

(blank)	A	B	C	D	F	P
0 (0.00%)	5 (29.41%)	10 (58.82%)	1 (5.88%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

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

(S) 5.50 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.73 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (5.88%)	4 (23.53%)	6 (35.29%)	6 (35.29%)
(M) 6.00								

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

(S) 5.78 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.89 of 78	0 (0.00%)	1 (5.88%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (17.65%)	7 (41.18%)	6 (35.29%)
(M) 6.00								

## 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%)	1 (5.88%)	14 (82.35%)	2 (11.76%)	0 (0.00%)	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%)	3 (17.65%)	8 (47.06%)	6 (35.29%)

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

(S) 5.38 of 4309	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.30 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (11.76%)	0 (0.00%)	2 (11.76%)	5 (29.41%)	8 (47.06%)
(M) 6.00								

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**5.88** Overall satisfaction with the course.

(S) 5.37 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.10 of 78	0 (0.00%)	0 (0.00%)	1 (5.88%)	1 (5.88%)	0 (0.00%)	2 (11.76%)	6 (35.29%)	7 (41.18%)
(M) 6.00								

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

(S) 5.66 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.51 of 78	0 (0.00%)	0 (0.00%)	1 (5.88%)	1 (5.88%)	0 (0.00%)	2 (11.76%)	6 (35.29%)	7 (41.18%)
(M) 6.00								

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

(S) 5.14 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.18 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (11.76%)	2 (11.76%)	3 (17.65%)	2 (11.76%)	7 (41.18%)
(M) 6.00								

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

(S) 5.22 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.56 of 78	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (11.76%)	1 (5.88%)	4 (23.53%)	4 (23.53%)	6 (35.29%)
(M) 6.00								

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

(S) 4.93 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 4.57 of 78	0 (0.00%)	2 (11.76%)	1 (5.88%)	1 (5.88%)	5 (29.41%)	1 (5.88%)	2 (11.76%)	5 (29.41%)
(M) 4.00								

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

(S) 5.49 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.45 of 78	0 (0.00%)	0 (0.00%)	1 (5.88%)	0 (0.00%)	1 (5.88%)	5 (29.41%)	2 (11.76%)	8 (47.06%)
(M) 6.00								

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

(S) 4.65 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 4.69 of 78	0 (0.00%)	1 (5.88%)	1 (5.88%)	1 (5.88%)	4 (23.53%)	3 (17.65%)	1 (5.88%)	5 (29.41%)
(M) 5.00								

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**4.76 The course enhanced your ability to communicate effectively.**

(S) 4.94 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 4.63 of 78	0 (0.00%)	2 (11.76%)	0 (0.00%)	3 (17.65%)	0 (0.00%)	6 (35.29%)	2 (11.76%)	4 (23.53%)
(M) 5.00								

**4.94 The course enhanced your ability to understand the impact of engineering in a global and societal context.**

(S) 4.89 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 4.62 of 78	0 (0.00%)	2 (11.76%)	1 (5.88%)	2 (11.76%)	1 (5.88%)	2 (11.76%)	3 (17.65%)	6 (35.29%)
(M) 6.00								

**5.35 The course enhanced your ability to recognize the need for and to engage in life-long learning.**

(S) 5.13 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.03 of 78	0 (0.00%)	1 (5.88%)	1 (5.88%)	0 (0.00%)	2 (11.76%)	3 (17.65%)	5 (29.41%)	5 (29.41%)
(M) 6.00								

**4.35 The course enhanced your ability to understand contemporary social issues.**

(S) 4.35 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 4.16 of 78	0 (0.00%)	2 (11.76%)	2 (11.76%)	1 (5.88%)	3 (17.65%)	5 (29.41%)	0 (0.00%)	4 (23.53%)
(M) 5.00								

**5.65 The course enhanced your ability to use the techniques, skills and modern engineering tools necessary for engineering practice.**

(S) 5.52 of 4309	(blank)	1 - Poor	2	3	4	5	6	7 - Excellent
(D) 5.29 of 78	0 (0.00%)	1 (5.88%)	1 (5.88%)	0 (0.00%)	1 (5.88%)	2 (11.76%)	5 (29.41%)	7 (41.18%)
(M) 6.00								

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.

09 Not a knock against Dr. Wendl, just a lot of very complex material to cover in a short time.

Course Materials and Assignments (Michael Wendl - Instructor)

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

00 The material was covered so well in class that readings were not necessary.

04 didn't really need the textbook

TA and Recitation (Michael Wendl - Instructor)

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

- 01 Didn't show up to help sessions
- 05 TA was often unavailable and was unsure about the content when questions were asked.
- 08 Did not use the TA's services.
- 09 I did not have any direct dealings with TAs. There was a large portion of the semester where no TAs were available for assistance, and homework generally came back sporadically.
- 11 Only two help sessions on Sundays. Also professor was not available for questions
- 12 We were not assigned a TA until we were 3/4 of the way through the course.
- 13 I never used the TA
- 14 The course didn't have a TA until half way through, even then he was only available on 1 day and his availability on that one day was sporadic from week to week.
- 16 We didn't have a TA for half the semester and it was too late when we got one.

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

- 14 I never attended a recitation session for the above reasons

Exams and Grade (Michael Wendl - Instructor)

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

- 16 Grading on the homework's were not consistent.

Overall

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

- 01 Out of town
- 05 Out of town for business
- 08 The lectures where engaging and insightful.... therefore I went.

Comments (Michael Wendl - Instructor)

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

- 00 Very interesting material, and a good introduction tho the subject.
- 02 The material is very challenging and very interesting. The teacher is fantastic and I liked the organization of his website.
- 03 Well organized instruction
- 04 very thourough lecture and notes
- 08 The professor.....
- 10 Professor has his own notes for lectures and that is very helpful to understand.
- 12 The notes provided.
- 14 The course was challenging and real-world applicable.

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

- 00 Extremely well organized. The class notes provide the needed information, and the homework problems helped understand the theory.
- 02 One of the best teachers I have had. He is obviously a very smart and well prepared guy with a deep knowledge of the the subject.



03	organized, thorough
04	very enthusiastic
08	The professors knowledge of the subject matter... I was apparent. Also, how much passion he had for learning and teaching... as a student you knew he cared...
09	Very enthusiastic professor with a deep knowledge of the subject matter. Always up and ready to teach.
12	He was thorough with everything that was taught.
14	Professor Wendl is very intellectual. He forced students to use proper engineering language as a way to avoid confusion and maintain consistency, which aided in understanding problems from the textbook.
16	Knowledge and enthusiasm of material.

**How could this course improve?**

00	One of the best courses I have taken at Washington University. I don't see how it could improve.
02	Many people complained about TA availability early in the class due to the difficulty of the material.
04	better grading system
08	Homework could be returned a bit faster.....
12	More examples could be taught.
16	Having a TA

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

00	Mr Wendl is one of the best instructors I had in my career. I don't think he needs improvement.
02	Hard to say. I did sometimes have trouble following the more difficult math due to the pace. perhaps suggesting some pre-reading could help?
09	Perhaps a few less tangents during lectures. While I appreciate the energy, at times it was a bit frenetic and difficult to follow.
12	N/A
14	Professor Wendl is an excellent professor and lecturer, but his availability outside of class was very poor to say the least. He wasn't available before class, had another class after our class, had no office hours, his email address was not even in the syllabus nor do I know his email address to this day.
16	Work a few more examples.

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

00	Great introduction to the subject. It provides a good understanding of fluid statics and dynamics. The sessions provide a great deal of information at a reasonable pace.
02	Very interesting and challenging material. Great teacher.
04	a theoretical fluid dynamics course
08	It won't be the instructors fault if you don't learn the material...
09	In depth look at theory and math behind fluid mechanics
12	Do not fall behind on the homework assignments.
14	This course has some tough aspects, albeit I would argue that's a good thing, so be prepared to study hard. And if you are able to obtain a good grade expect to feel better about the achievement than in another course.
16	You will need to do the homework.

**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.**

02	no
04	no
12	No
14	No
16	Copying of homework. A student allowed another student to copy off of their mid term exam.

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**Any additional comments?**

- 02 I love the enthusiasm and that he can teach a whole class without notes. he really knows the material inside and out.
- 12 N/A
- 16 Really enjoyed the class