

WUSTL Course Evaluations

5/19/2011

Title of Course: FLUID MECHANICS

Course: T17 3700

Section: 01

Semester: Spring 2005

Instructors: Michael Wendl (instructor)

Completed Evaluations: 10 of 25 (40%)

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 Template

Organization and Grading (NOT Instructor Specific)

1.11 Course requirements clearly communicated?

(S) 1.07 of 3680	(blank)	Yes	No
(D) 1.03 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

1.22 Course lived up to its description?

(S) 1.08 of 3680	(blank)	Yes	No
(D) 1.12 of 41	0 (0.00%)	7 (70.00%)	2 (20.00%)
(M) 1.00			

1.11 Understood grading procedure at the outset?

(S) 1.14 of 3680	(blank)	Yes	No
(D) 1.09 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

1.22 Your grade accurately reflects understanding of the material?

(S) 1.19 of 3680	(blank)	Yes	No
(D) 1.15 of 41	0 (0.00%)	7 (70.00%)	2 (20.00%)
(M) 1.00			

WUSTL Course Evaluations

5/19/2011

1.11 Exams covered what you expected?

(S) 1.14 of 3680	(blank)	Yes	No
(D) 1.10 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

1.22 Comments on written work sufficient?

(S) 1.24 of 3680	(blank)	Yes	No
(D) 1.18 of 41	0 (0.00%)	7 (70.00%)	2 (20.00%)
(M) 1.00			

7.11 Overall rating for organization/ grading

(S) 7.01 of 3680	(blank)	1 - Poor	2	3	4	5	6	7	8	9 - Excellent
(D) 7.32 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (20.00%)	1 (10.00%)	2 (20.00%)	2 (20.00%)	2 (20.00%)
(M) 7.00										

Course Content (NOT Instructor Specific)
--

1.11 Work load for course was appropriate?

(S) 1.12 of 3680	(blank)	Yes	No
(D) 1.12 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

1.11 Were you positively challenged to live up to your potential?

(S) 1.14 of 3680	(blank)	Yes	No
(D) 1.09 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

1.00 Reasonable time to complete assignments?

(S) 1.07 of 3680	(blank)	Yes	No
(D) 1.09 of 41	0 (0.00%)	9 (90.00%)	0 (0.00%)
(M) 1.00			

1.11 You found this course beneficial?

(S) 1.15 of 3680	(blank)	Yes	No
(D) 1.09 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

1.11 Combined "real world" applications with course material?

(S) 1.10 of 3680	(blank)	Yes	No
(D) 1.06 of 41	0 (0.00%)	8 (80.00%)	1 (10.00%)
(M) 1.00			

WUSTL Course Evaluations

5/19/2011

4.43 The course helped you recognize the need for, and an ability to engage in, life-long learning.

(S) 4.81 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 4.40 of 41	2 (20.00%)	0 (0.00%)	1 (10.00%)	1 (10.00%)	2 (20.00%)	1 (10.00%)	1 (10.00%)	1 (10.00%)
(M) 4.00								

3.29 The course increased your knowledge of contemporary social issues.

(S) 3.73 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 3.29 of 41	2 (20.00%)	1 (10.00%)	2 (20.00%)	0 (0.00%)	2 (20.00%)	2 (20.00%)	0 (0.00%)	0 (0.00%)
(M) 4.00								

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

(S) 5.27 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.50 of 41	2 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (20.00%)	2 (20.00%)	2 (20.00%)	1 (10.00%)
(M) 5.00								

4.71 The instructor's ability to communicate in class contributed to your ability to learn the material.

(S) 5.16 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.23 of 41	2 (20.00%)	0 (0.00%)	0 (0.00%)	2 (20.00%)	1 (10.00%)	1 (10.00%)	3 (30.00%)	0 (0.00%)
(M) 5.00								

4.86 The classroom sessions/lectures for this course were worth attending each week.

(S) 5.25 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.12 of 41	2 (20.00%)	0 (0.00%)	0 (0.00%)	2 (20.00%)	1 (10.00%)	2 (20.00%)	0 (0.00%)	2 (20.00%)
(M) 5.00								

1.14 Was a course syllabus or a course information sheet distributed the first week of class?

(S) 1.05 of 3680	(blank)	Yes	No
(D) 1.04 of 41	2 (20.00%)	6 (60.00%)	1 (10.00%)
(M) 1.00			

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

(S) 1.05 of 3680	(blank)	Yes	No
(D) 1.04 of 41	2 (20.00%)	6 (60.00%)	1 (10.00%)
(M) 1.00			

WUSTL Course Evaluations

5/19/2011

Course Content (Michael Wendl - instructor)

1.00 Work load for course was appropriate?

(S) 1.12 of 3680 (blank) Yes No
 (D) 1.12 of 41
 (M) 1.00 0 (0.00%) 1 (10.00%) 0 (0.00%)

1.00 Were you positively challenged to live up to your potential?

(S) 1.14 of 3680 (blank) Yes No
 (D) 1.09 of 41
 (M) 1.00 0 (0.00%) 1 (10.00%) 0 (0.00%)

1.00 Reasonable time to complete assignments?

(S) 1.07 of 3680 (blank) Yes No
 (D) 1.09 of 41
 (M) 1.00 0 (0.00%) 1 (10.00%) 0 (0.00%)

1.00 You found this course beneficial?

(S) 1.15 of 3680 (blank) Yes No
 (D) 1.09 of 41
 (M) 1.00 0 (0.00%) 1 (10.00%) 0 (0.00%)

1.00 Combined "real world" applications with course material?

(S) 1.10 of 3680 (blank) Yes No
 (D) 1.06 of 41
 (M) 1.00 0 (0.00%) 1 (10.00%) 0 (0.00%)

2.00 Overall did you spend more time on this class than others?

(S) 1.53 of 3680 (blank) Yes No
 (D) 1.52 of 41
 (M) 2.00 0 (0.00%) 0 (0.00%) 1 (10.00%)

9.00 Overall rating for course content

(S) 7.06 of 3680 (blank) 1 - Poor 2 3 4 5 6 7 8 9 - Excellent
 (D) 7.47 of 41
 (M) 9.00 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 1 (10.00%)

Teaching (Michael Wendl - instructor)

WUSTL Course Evaluations

5/19/2011

1.00 Instructor is concerned for students?

(S) 1.09 of 3680 (blank) Yes No
(D) 1.03 of 41
(M) 1.00 0 (0.00%) 10 (100.00%) 0 (0.00%)

1.10 Instructor is enthusiastic about course?

(S) 1.09 of 3680 (blank) Yes No
(D) 1.03 of 41
(M) 1.00 0 (0.00%) 9 (90.00%) 1 (10.00%)

1.10 Instructor demonstrated expertise in course material?

(S) 1.06 of 3680 (blank) Yes No
(D) 1.03 of 41
(M) 1.00 0 (0.00%) 9 (90.00%) 1 (10.00%)

1.40 Instructor made the course interesting?

(S) 1.28 of 3680 (blank) Yes No
(D) 1.29 of 41
(M) 1.00 0 (0.00%) 6 (60.00%) 4 (40.00%)

1.63 The TA for this course was effective?

(S) 1.34 of 3680 (blank) Yes No
(D) 1.36 of 41
(M) 2.00 2 (20.00%) 3 (30.00%) 5 (50.00%)

1.33 Lecture was organized and easy to follow?

(S) 1.21 of 3680 (blank) Yes No
(D) 1.22 of 41
(M) 1.00 1 (10.00%) 6 (60.00%) 3 (30.00%)

1.10 Professor generally available for questions?

(S) 1.10 of 3680 (blank) Yes No
(D) 1.06 of 41
(M) 1.00 0 (0.00%) 9 (90.00%) 1 (10.00%)

1.22 Homework/ Tests were returned promptly?

(S) 1.18 of 3680 (blank) Yes No
(D) 1.16 of 41
(M) 1.00 1 (10.00%) 7 (70.00%) 2 (20.00%)

WUSTL Course Evaluations

5/19/2011

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

(S) 4.97 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.00 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

7.00 The course enhanced your ability to function on multidisciplinary teams.

(S) 4.30 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 3.92 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

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

(S) 5.27 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.62 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

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

(S) 4.20 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 3.96 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

7.00 The course enhanced your ability to communicate effectively.

(S) 4.48 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 3.96 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

7.00 The course enhanced your ability to understand the impact of engineering solutions in a global and social context.

(S) 4.49 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 4.00 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

7.00 The course helped you recognize the need for, and an ability to engage in, life-long learning.

(S) 4.81 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 4.40 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

WUSTL Course Evaluations

5/19/2011

7.00 The course increased your knowledge of contemporary social issues.

(S) 3.73 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 3.29 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

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

(S) 5.27 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.50 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

7.00 The instructor's ability to communicate in class contributed to your ability to learn the material.

(S) 5.16 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.23 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

7.00 The classroom sessions/lectures for this course were worth attending each week.

(S) 5.25 of 3680	(blank)	1 - Strongly Disagree	2	3	4	5	6	7 - Strongly Agree
(D) 5.12 of 41	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (10.00%)
(M) 7.00								

1.00 Was a course syllabus or a course information sheet distributed the first week of class?

(S) 1.05 of 3680	(blank)	Yes	No
(D) 1.04 of 41	0 (0.00%)	1 (10.00%)	0 (0.00%)
(M) 1.00			

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

(S) 1.05 of 3680	(blank)	Yes	No
(D) 1.04 of 41	0 (0.00%)	1 (10.00%)	0 (0.00%)
(M) 1.00			

1.00 In retrospect, was the syllabus an accurate reflection of how the course was actually taught?

(S) 1.09 of 3680	(blank)	Yes	No
(D) 1.15 of 41	0 (0.00%)	1 (10.00%)	0 (0.00%)
(M) 1.00			

General Comments (Michael Wendl - instructor)

What did you like most about this course and professor?

How could this course and professor improve?

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

Was the text useful? Was it understandable? Why or why not?

Were the assigned homework or problem sets helpful and relevant to the course? Why or why not?

Please use this space to comment on any other aspect of the course. (i.e., help sessions, teaching assistants, etc.)

General Comments

What did you like most about this course and professor?

- 00 The notes that were already ready for you.
- 02 This is one of the few courses that actually pertains to what I do for a full-time job - HVAC system design for commercial, institutional, and industrial buildings. Dr. Wendl presented a different side to "pipe flow" in that he works with cardiovascular systems - similar but different.
- 08 I am interested in the subject. The professor is passionate about it.

How could this course and professor improve?

- 00 Gave examples not out of the book (already example problems). Have office time.
- 02 Dr. Wendl could cover a lot more material if he didn't repeat half of what he said the previous class. It would also help to go over example problems other than what are already in the text. I wish there were more than two tests. It really limits my ability to "bring up" my grade if I don't do well on one of the tests.
- 04 There is too much math in this course for engineers
- 06 the emphasis on the mathematical derivations and theory is heavy at times, based on the nature of the hw questions and tests. it could also be a good way to learn the material, this just has not sunk in yet.
- 07 I think that Dr. Wendl over-emphasizes the mathematical foundation of fluid mechanics at the expense of engineering applications and problem solving skills. The derivations of fluid mechanics formulae in class were not well explained and were often very difficult to understand. I have not gained anything by having a partial grasp of the theory of fluid mechanics, and have not learned as much as I could about understanding and solving real fluid mechanics problems. The course should focus more on applications and problem solving.

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

- 00 A learn on your own class
- 06 don't be frightened by the lecture, but do pay attention.
- 07 You should find a tutor who can help explain concepts and complete assignments. The lectures are confusing and not very useful for solving homework problems.
- 08 Just motivate yourselves to understand and the homework questions can be tough. Even though ample time is given, start early so that he can help you with most of the hard questions.

Was the text useful? Was it understandable? Why or why not?

- 00 yes a little bit
- 02 The text was very useful and understandable.

-
- 06 hard to read, but useful in solving the hw problems.
 - 07 The text is not useful. The discussions of fluid mechanics principles are long and hard to follow. I gave up trying to read the text after the first two or three weeks of the course. The only good thing about it is that the examples in the book sometimes shed light on the homework problems.
 - 08 Yes

Were the assigned homework or problem sets helpful and relevant to the course? Why or why not?

- 00 Some what
- 02 Often the homework problems were never covered in the lectures, which mainly covered derivations.
- 07 The understanding of fluid mechanics that I have gained from this course is from doing the homework problems, so in one sense they are indispensable. One or two more problems should be assigned each week.
- 08 Yes

Please use this space to comment on any other aspect of the course. (i.e., help sessions, teaching assistants, etc.)

- 07 The course is currently oriented to training mathematicians. It should be oriented to training engineers.
- 08 If there was a TA would have been good. Other than that I enjoyed the class